



Center for Health Statistics



July 2005

DATA SUMMARY
No. DS05-07000

This Data Summary is one of a series of leading cause of death reports.

Highlights

- In 2003, 87.7 percent of all diabetes deaths in California occurred among people age 55 and older.
- The diabetes crude death rate for California was 19.7 deaths per 100,000 population in 2003.
- During 2003 the California diabetes age-adjusted death rate of 21.5 was lower than the United States rate of 25.2.
- In 2003 Pacific Islanders had a higher diabetes age-adjusted death rate than Blacks, Hispanics, Asians, American Indians, Whites, and Two or More Races.

Diabetes Deaths in California, 2000-2003

By Daniel H. Cox

Introduction

In 2003 diabetes was the sixth leading cause of death in the United States (U.S.) and was the underlying cause of 73,965 deaths that year.¹ In 2002, 18.2 million people in the U.S. had diabetes; 5.2 million of those people were undiagnosed.²

Diabetes disproportionately affects minority populations and the elderly and its incidence is likely to increase as minority populations grow and the U.S. population becomes older. The human suffering caused by diabetes and its complications is tragic and the economic cost to society is great. Diabetes can have a harmful effect on most of the organ systems in the human body; it is a frequent cause of end-stage renal disease, non-traumatic lower-extremity amputation, and a leading cause of blindness among working age adults. Persons with diabetes are at increased risk for ischemic heart disease, neuropathy, and stroke. In economic terms, the direct medical expenditures attributable to diabetes in 2002 have been estimated at 91.8 billion dollars.³

The definition of diabetes used in this report is based on the International Classification of Diseases, Tenth Revision (ICD-10) codes E10-E14 currently presented in the National Center for Health Statistics (NCHS), National Vital Statistics Report.⁴ In this Data Summary, as in the previously mentioned NCHS report, diabetes related deaths are counted only when diabetes is the underlying cause of death. The U.S. Public Health Service has established a number of health objectives pertaining to diabetes, which are published in *Tracking Healthy People 2010 (HP2010)*.⁵ Since these objectives are based on both underlying and contributing causes of diabetes deaths rather than underlying cause only, California's progress in meeting the HP 2010 national objective for diabetes will not be addressed in this report.

¹ National Center for Health Statistics, Deaths: Preliminary Data for 2003. National Vital Statistics Reports, DHHS Pub. No. (PHS) 2005-1120, PRS 05-0162, February 2005; Vol. 53, No. 15.

² Centers for Disease Control and Prevention. National Diabetes Fact Sheet: General information and National Estimates on Diabetes in the United States, 2003. Atlanta, GA: U.S. DHHS, 2004.

³ Hogan P, Dall T, Nikolov P. Economic Costs of Diabetes in the U.S. in 2002. American Diabetes Association, Diabetes Care, Volume 26, Number 3, March 2003.

⁴ National Center for Health Statistics, Deaths: Preliminary Data for 1999. National Vital Statistics Reports, DHHS Pub. No. (PHS) 2001-1120, PRS 01-0358, June 2001; Vol. 49, No. 3.

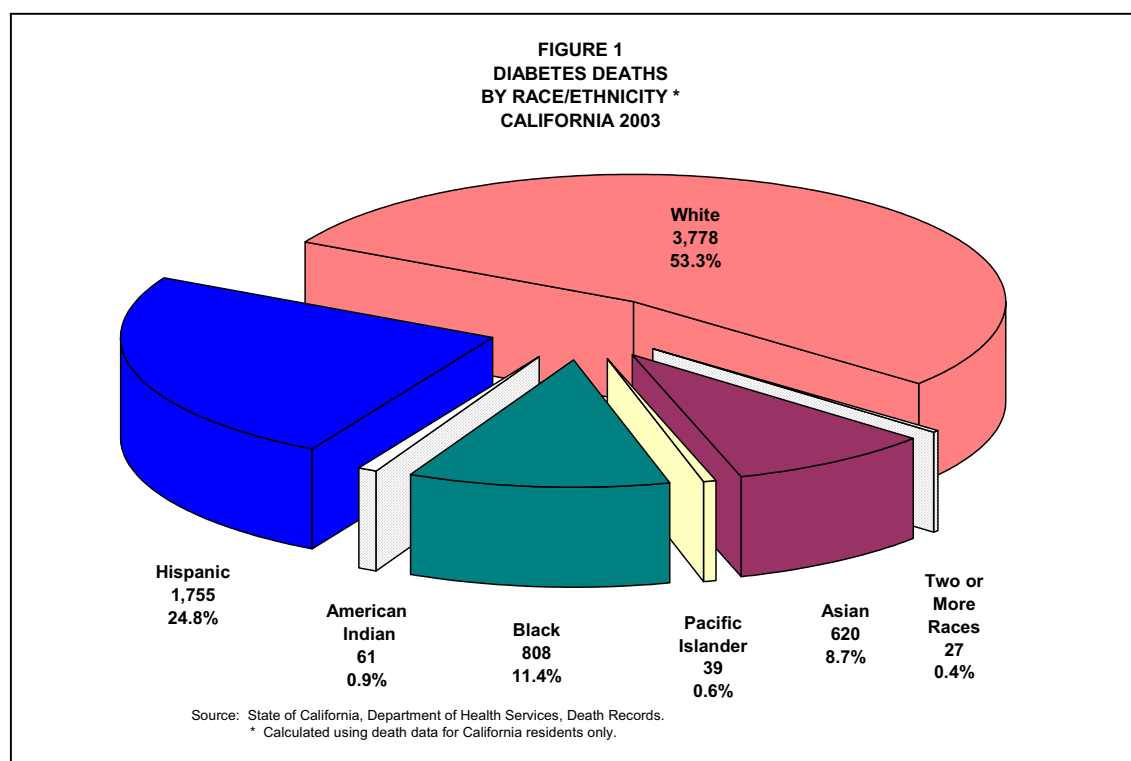
⁵ U.S. Department of Health and Human Services. Tracking Healthy People 2010. Washington DC: U.S. Government Printing Office, November 2000.

A brief overview of [data limitations and qualifications](#) is provided at the end of this report.

Diabetes Deaths

Table 1 (pages 9 and 10) displays California diabetes death data for 2003 by race/ethnicity, age, and sex. Diabetes deaths occur predominantly among the older population, and this held true in 2003 with 87.7 percent of all diabetes deaths involving people in the age groups 55 years and older. These age groups, within each respective race/ethnic group, accounted for 93.7 percent of all diabetes deaths among Asians, 89.9 percent of diabetes deaths among Whites, 85.2 percent of deaths among Two or More Races, 84.8 percent of deaths among Hispanics, 80.8 percent of deaths among Blacks, 76.9 percent of deaths among Pacific Islanders, and 72.1 percent of deaths among American Indians. During 2003 the number of deaths attributed to diabetes was slightly higher among males (3,562) than among females (3,526).

As shown in **Figure 1**, the number of diabetes deaths among Whites (3,778) was higher than Hispanics (1,755), Blacks (808), Asians (620), American Indians (61), Pacific Islanders (39), and Two or More Races (27).



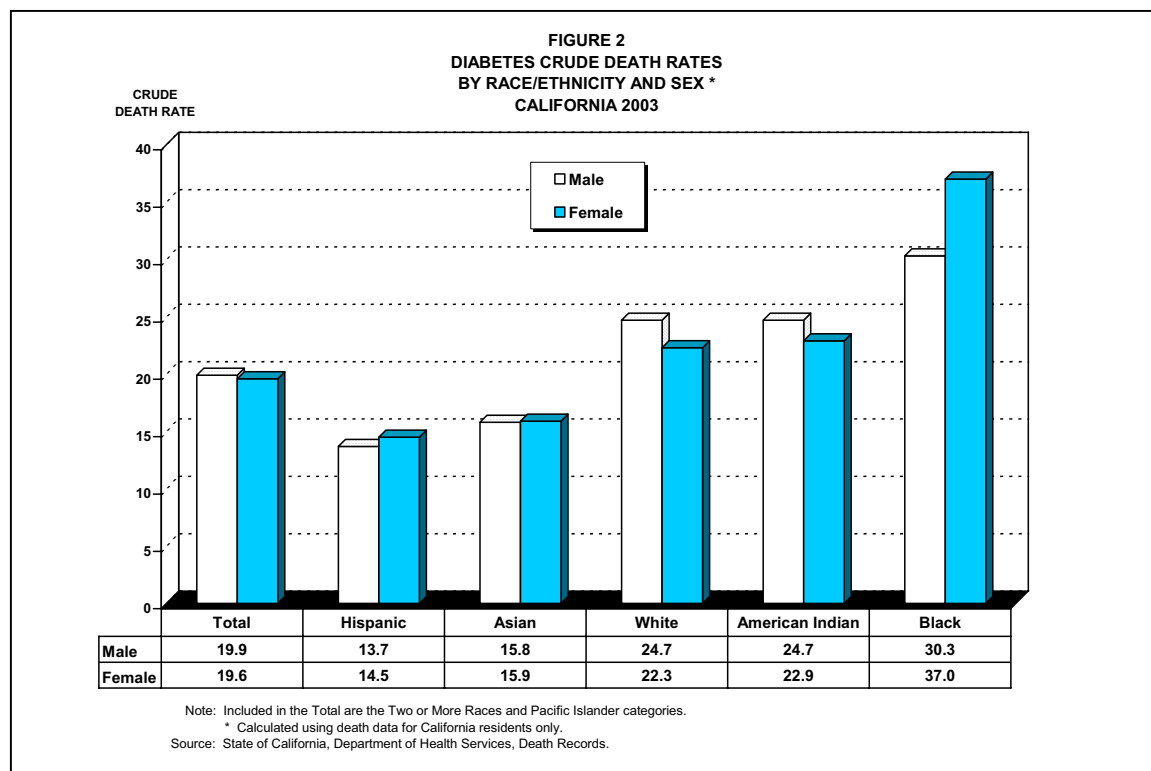
Diabetes Crude Death Rates

The diabetes crude death rate for California increased significantly from 18.2 deaths per 100,000 population in 2000 to 19.7 in 2003. As shown in **Table 1** (pages 9 and 10), Blacks had the highest crude death rate in 2003, a rate of 33.7 that was followed closely by Pacific Islanders with a rate of 32.0. American Indians were next with a crude rate of 23.8, followed by Whites with a rate of 23.5. Next was Asian with a rate of 15.8 and Hispanic with a rate of 14.1. Last was the Two or More Races category with a diabetes crude death rate of 3.8 deaths per 100,000 population. Five of these seven rates increased from 2000 when Blacks had a diabetes crude death rate of 33.1, Whites had a rate of 21.8, American Indians had a rate of 19.2, Hispanics had a rate of 13.1, and

See the [Methodological Approach Section](#) later in this report for an explanation of crude, age-specific, and age-adjusted death rates.

Asians had a rate of 12.1. The diabetes crude death rates for Pacific Islander and Two or More Races were unreliable in 2000 so no comparison was made. The increases among Asians, Hispanics, and Whites from 2000 to 2003 were statistically significant.

Figure 2 shows Black, Asian, and Hispanic females had higher diabetes crude death rates than males in the corresponding race/ethnic groups. Black females had a rate of 37.0 deaths per 100,000 population, and Black males had a rate of 30.3. Asian females had a rate of 15.9 and Asian males had a rate of 15.8. Hispanic females had a rate of 14.5 and Hispanic males had a rate of 13.7. Only the difference among Blacks was statistically significant. Contrary to the findings for the other three race/ethnic groups, American Indian males and White males had diabetes crude death rates that were higher than the rates for females in the corresponding race/ethnic groups. American Indian males had a rate of 24.7 deaths per 100,000 population, and American Indian females had a rate of 22.9. White males had a rate of 24.7 and White females had a rate of 22.3. The difference among White males and White females was statistically significant. In this comparison the rate for Pacific Islander females was unreliable, though it should be noted that Pacific Islander males had a reliable rate of 37.8 (**Table 1** page 10) that was higher than the rate for males or females in any of the other race/ethnic groups. The rates for Pacific Islander and Two or More Races were not included in **Figure 2** because of unreliability.



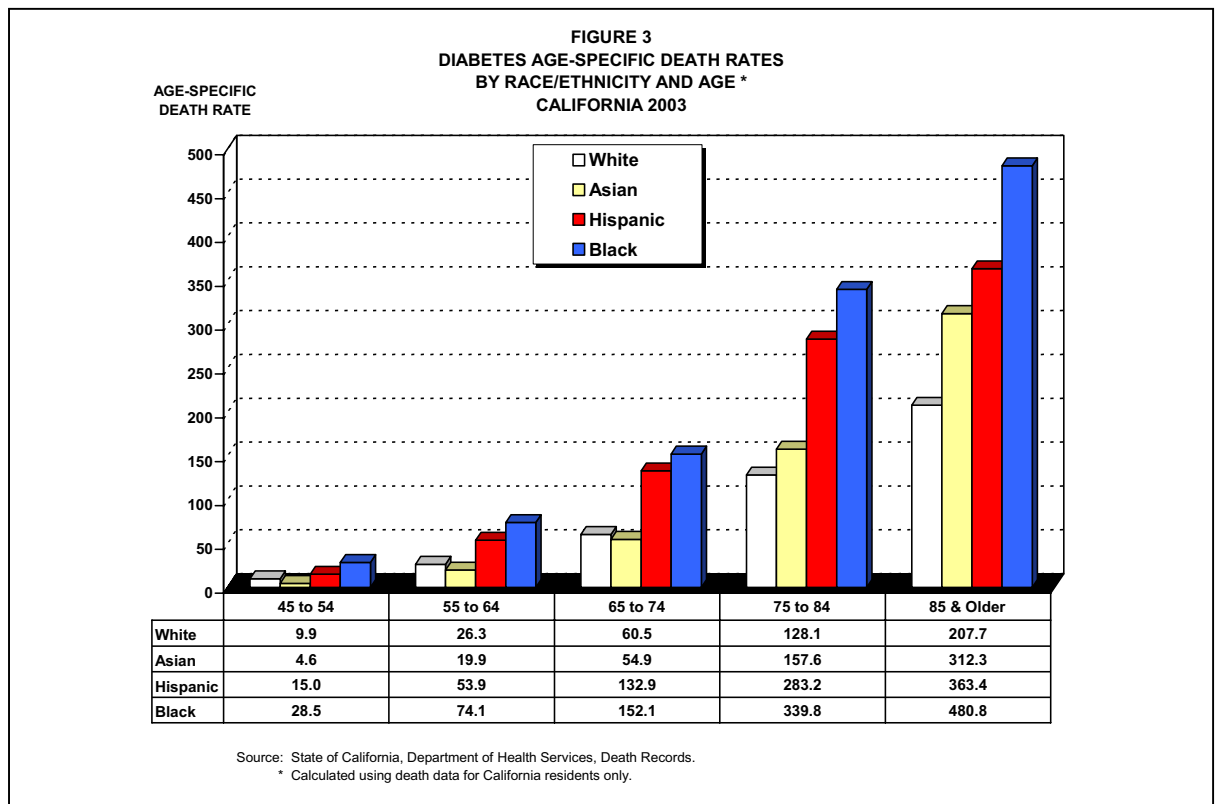
Diabetes Age-Specific Death Rates

In **Table 1** (pages 9 and 10), reliable age-specific rates show that among the sexes in 2003, males in the Asian, Black, Hispanic, and White race/ethnic groups consistently had higher diabetes death rates than females in the corresponding race/ethnic groups.

See the Vital Statistics Query System (VSQ) at our Web site www.dhs.ca.gov/hisp/Applications/vsq/vsq.cfm to create your own vital statistics tables.

The only exception to this was in the 85 and Older age group where Hispanic females had a higher death rate than Hispanic males. The diabetes age-specific death rates for American Indian, Pacific Islander, and Two or More Races were not reliable in 2003.

Figure 3 shows that in 2003, among the age groups with reliable rates, Blacks had higher diabetes age-specific death rates than the other three race/ethnic groups. These differences were statistically significant except in the 65 to 74 age group where the difference between Blacks and Hispanics was not significant.



Not shown in **Figure 3**, but displayed in **Table 1** (pages 9 and 10) are the diabetes age-specific death rates for the 35 to 44 age group where Blacks had a significantly higher death rate than Hispanics or Whites. The rate for Asians was not reliable in the 35 to 44 age group. In the 25 to 34 age group Whites had a higher diabetes death rate than Hispanics. The rate for Asians and Blacks was not reliable in the 25 to 34 age group.

Diabetes Age-Adjusted Death Rates

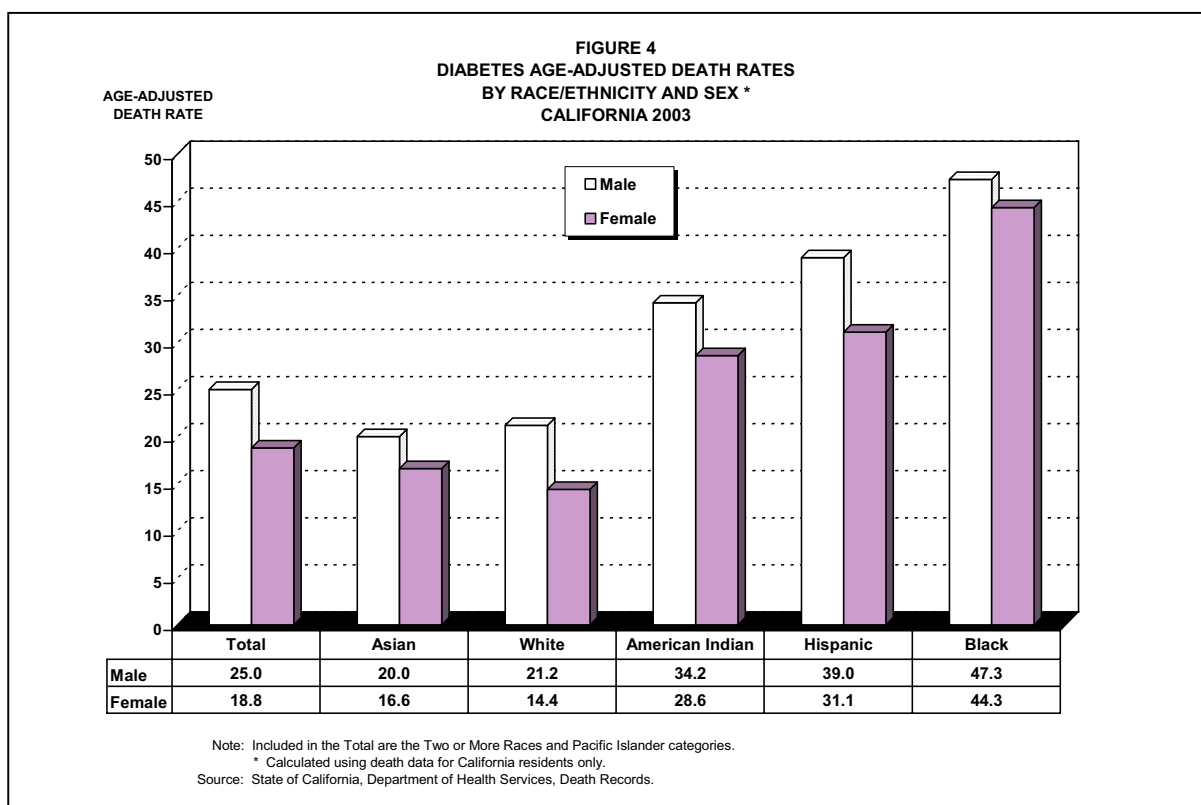
In 2003 the California diabetes age-adjusted death rate of 21.5 deaths per 100,000 population was lower than the U.S. rate of 25.2.¹ The California rate increased slightly from 2000 when the rate was 21.1, though this difference was not statistically significant.

Displayed in **Table 1**, a comparison among the race/ethnic groups shows that in 2003 Pacific Islanders had a diabetes age-adjusted death rate of 51.3, which was higher than Blacks with a rate of 45.6, Hispanics with a rate of 34.6, American Indians with a rate of 30.9, Asians with a rate of 18.2, Whites with a rate of 17.4, and Two or More Races with a rate of 7.8. Two of these seven rates increased from 2000 when American Indians had a diabetes age-adjusted death rate of 27.7 and Asians had a rate of 16.5. The rates for

You can read more about crude and age-adjusted rates on the National Center for Health Statistics Web site at www.cdc.gov/nchs/

Blacks and Hispanics decreased from 2000, when the rates were 46.6 and 35.2 respectively. None of these differences were statistically significant. The rate for Whites was the same in 2000 and 2003, a rate of 17.4. The rates for Pacific Islanders and Two or More Races were not reliable in 2000 so no comparison could be made.

As shown in **Figure 4**, in 2003 the diabetes age-adjusted death rate for males was higher than for females in the five race/ethnic groups with reliable rates. Black males (47.3) had a higher rate than Black females (44.3). Hispanic males (39.0) had a higher rate than Hispanic females (31.1). American Indian males (34.2) had a higher rate than American Indian females (28.6). White males (21.2) had a higher rate than White females (14.4), and Asian males (20.0) had a higher rate than Asian females (16.6). The differences among Asians, Hispanics, and Whites were statistically significant. Not shown in **Figure 4** but displayed in **Table 1** (pages 9 and 10) is the rate for Pacific Islander males (64.3), a rate higher than the rates for males or females in any of the other race/ethnic groups. Males and females in the Two or More Races group and females in the Pacific Islander group did not have reliable rates so no comparisons could be made.



Diabetes Death Data for California Counties

Table 5 (page 17) displays the number of deaths, crude death rates, and age-adjusted death rates by county averaged over a three-year period, 2001 to 2003. This averaging is done to reduce the large fluctuations in the death rates that are inherent among counties with a small number of events and/or population.

The highest average number of diabetes deaths occurred in Los Angeles County (2,064.0) and the lowest average number of deaths occurred in Alpine County (0.0).

For more data, see DHS Center for Health Statistics, Office of Health Information and Research Home Page at www.dhs.ca.gov/ohir

The highest and lowest reliable diabetes crude death rates were in Kings County (37.3 per 100,000 population) and El Dorado County (12.1).

The ranking for diabetes age-adjusted death rates showed Kings County with the highest reliable rate (59.1 deaths per 100,000 population) and Marin County with the lowest (10.4). Reliable rates show the diabetes age-adjusted death rate for Kings County was significantly higher than the rates for all other California counties.

Diabetes Death Data by City Health Jurisdiction

Table 6 displays the number of deaths and crude death rates for California’s three city health jurisdictions averaged over a three-year period, 2001 to 2003. Age-adjusted death rates were not calculated for the city health jurisdictions because city population estimates by age were not available.

The city of Long Beach had an average of 93.7 diabetes deaths, Pasadena had an average of 29.3 deaths, and Berkeley had an average of 17.0 deaths.

Pasadena had a diabetes crude death rate of 21.1 deaths per 100,000 population, Long Beach had a crude rate of 19.8, and Berkeley had a crude rate of 16.3, although the rate for Berkeley was not statistically reliable.

**TABLE 6
DIABETES DEATHS
AMONG THE CITY HEALTH JURISDICTIONS*
CALIFORNIA, 2001-2003**

CITY HEALTH JURISDICTION	NUMBER OF DEATHS (Average)	2002 POPULATION	CRUDE DEATH RATE
BERKELEY	17.0	104,254	16.3 +
LONG BEACH	93.7	473,363	19.8
PASADENA	29.3	138,904	21.1

Note: Rates are per 100,000 population. Data is ICD-10 codes E10-E14.
 * Calculated using death data for California residents only.
 + Death rate unreliable, relative standard error is greater than or equal to 23 percent.

Source: State of California, Department of Finance, E-4 Population Estimates for Cities, Counties and the State, 2001-2005, with 2000 DRU Benchmark, May 2005.
 State of California, Department of Health Services, Death records.

Methodological Approach

The methods used to analyze vital statistics data are important. Analyzing only the number of deaths has its disadvantages and can be misleading because the population at risk is not taken into consideration. Crude death rates show the actual rate of dying in a given population, but because of the differing age compositions of various populations, crude rates do not provide a statistically valid method for comparing geographic areas, sexes, race/ethnic groups, and/or multiple reporting periods. Age-specific death rates are

Some of the [earlier reports](#) on this subject are available online at www.dhs.ca.gov/ohir

the number of deaths per 100,000 population in a specific age group, and are used along with standard population proportions to develop a weighted average rate. This rate is referred to as an age-adjusted death rate and removes the effect of different age structures of the populations whose rates are being compared. Age-adjusted death rates therefore provide the preferred method for comparing different race/ethnic groups, sexes, and geographic areas and for measuring death rates over time. The year 2000 population standard is used as the basis for age-adjustments in this report.

Data Limitations and Qualifications

The diabetes death data presented in this report are based on vital statistics records with ICD-10 codes E10-E14 as defined by the NCHS.⁴ Deaths by place of residence means that the data include only those deaths occurring among residents of California and its counties, regardless of the place of death.

The term “significant” within the text indicates statistically significant based on the difference between two independent rates ($p < .05$).

As with any vital statistics data, caution needs to be exercised when analyzing small numbers, including the rates derived from them. Death rates calculated from a small number of deaths and/or population tend to be unreliable and subject to significant variation from one year to the next. To assist the reader, 95 percent confidence intervals are provided in the data tables as a tool for measuring the reliability of the death rates. Rates with a relative standard error (coefficient of variation) greater than or equal to 23 percent are indicated with an asterisk (*).

Beginning in 1999, cause of death is reported using ICD-10.⁶ Cause of death for 1979 through 1998 was coded using the International Classification of Diseases, Ninth Revision (ICD-9). Depending on the specific cause of death, the number of deaths and death rate are not comparable between ICD-9 and ICD-10. Therefore, our analyses do not combine both ICD-9 and ICD-10 data.

The seven race/ethnic groups presented in the tables are mutually exclusive. White, Pacific Islander, Black, Asian, American Indian, and Two or More Races exclude Hispanic ethnicity, while Hispanic includes any race/ethnic group. In order to remain consistent with the population data obtained from the Department of Finance, the “White race/ethnic group” includes White, Other (specified), Not Stated, and Unknown; the “Pacific Islander race/ethnic group” includes Guamanian, Hawaiian, Samoan, and Other Pacific Islander; the “Asian race/ethnic group” includes Asian Indian, Asian (specified/unspecified), Cambodian, Chinese, Filipino, Hmong, Japanese, Korean, Laotian, Thai, and Vietnamese; the “American Indian race/ethnic group” includes Aleut, American Indian, and Eskimo. In addition, caution should be exercised in the interpretation of mortality data by race/ethnicity. Misclassification of race/ethnicity on the death certificate may contribute to death rates that may be understated among Pacific Islanders, Hispanics, Asians, and American Indians.⁷ Identification of decedents

⁶ World Health Organization. International Statistical Classification of Diseases and Related Health Problems. Tenth Revision. Geneva: World Health Organization. 1992.

⁷ Rosenberg HM, et al. Quality of Death Rates by Race and Hispanic Origin: A Summary of Current Research, 1999. Vital and Health Statistics, Series 2, No.128, National Center for Health Statistics, DHHS Pub. No. (PHS) 99-1328. September 1999.

as being of Two or More Races may be understated as well.

Beginning in 2000, federal race/ethnicity reporting guidelines changed to allow the reporting of up to three races on an individual death certificate. California initiated use of the new Federal guidelines on January 1, 2000. Some earlier reports displaying data from 2000 and later were tabulated based on the first listed race on those certificates where more than one race was listed. Recently, California population estimates that include a “Two or More or More Races” category became available. To be consistent with the population categories, current reports tabulate race of decedent using all races mentioned on the death certificates. Therefore earlier reports are not compatible with current reports.

Effective with 1999 mortality data, the standard population for calculating age adjustments was changed from the 1940 population standard to the year 2000 population standard, in accordance with new statistical policy implemented by the NCHS. The new population standard affects measurement of mortality trends and group comparisons. Of particular note are the effects on race comparison of mortality.⁸ Age-adjusted rates presented in this report are not comparable to rates calculated with different population standards.

In addition, the population data used to calculate the crude rates in **Table 6** (page 6) differ from the population data used to calculate the crude rates in **Table 5** (page 17). Consequently, caution should be exercised when comparing the crude rates among the three city health jurisdictions with the rates among the 58 California counties. Age-adjusted rates for city health jurisdictions were not calculated.

For a more complete explanation of the age-adjusting methodology used in this report, see the “Healthy People 2010 Statistical Notes” publication.⁹ Detailed information on data quality and limitations are presented in the appendix of the annual report, “Vital Statistics of California.”¹⁰ Formulas used to calculate death rates are included in the technical notes of the “County Health Status Profiles” report.¹¹

This Data Summary was prepared by Daniel H. Cox, Center for Health Statistics, 1616 Capitol Avenue, Suite 74.165, MS 5103, P.O. Box 997410, Sacramento, CA 95899-7410, telephone (916) 552-8095 and Fax (916) 650-6889.

⁸ Anderson RN, Rosenberg HM. Age Standardization of Death Rates: Implementation of the Year 2000 Standard. National Vital Statistics Reports; Volume 47, No. 3, Hyattsville, Maryland: National Center for Health Statistics. October 1998.

⁹ Klein RJ, Schoenborn CA. Healthy People 2010 Statistical Notes: Age Adjustment using the 2000 Projected U.S. Population. National Center for Health Statistics, DHHS Publication, No. 20. January 2001.

¹⁰ Ficenc S, Bindra K. Vital Statistics of California, 2002. Center for Health Statistics, California Department of Health Services. August 2004.

¹¹ Shippen S, Wilson C. County Health Status Profiles 2005. Center for Health Statistics, California Department of Health Services. April 2005.

TABLE 1 (Continued)
DIABETES DEATHS
BY RACE/ETHNICITY, AGE, AND SEX
CALIFORNIA, 2003
(By Place of Residence)

AGE GROUPS	DEATHS			POPULATION			RATES			95% CONFIDENCE LIMITS					
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL		MALE		FEMALE	
										LOWER	UPPER	LOWER	UPPER	LOWER	UPPER
TOTAL															
Under 1	0	0	0	531,434	271,162	260,272	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
1 to 4	0	0	0	2,008,528	1,026,713	981,815	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
5 to 14	3	1	2	5,420,822	2,777,200	2,643,622	0.1 *	0.0 *	0.1 *	0.0	0.1	0.0	0.1	0.0	0.2
15 to 24	21	15	6	5,160,658	2,691,409	2,469,249	0.4	0.6 *	0.2 *	0.2	0.6	0.3	0.8	0.0	0.4
25 to 34	59	39	20	5,246,137	2,705,863	2,540,274	1.1	1.4	0.8	0.8	1.4	1.0	1.9	0.4	1.1
35 to 44	216	131	85	5,648,662	2,870,936	2,777,726	3.8	4.6	3.1	3.3	4.3	3.8	5.3	2.4	3.7
45 to 54	572	326	246	4,819,832	2,382,693	2,437,139	11.9	13.7	10.1	10.9	12.8	12.2	15.2	8.8	11.4
55 to 64	1,071	599	472	3,146,705	1,520,342	1,626,363	34.0	39.4	29.0	32.0	36.1	36.2	42.6	26.4	31.6
65 to 74	1,556	834	722	1,997,161	921,535	1,075,626	77.9	90.5	67.1	74.0	81.8	84.4	96.6	62.2	72.0
75 to 84	2,276	1,115	1,161	1,414,654	587,119	827,535	160.9	189.9	140.3	154.3	167.5	178.8	201.1	132.2	148.4
85 & Older	1,313	501	812	540,374	183,447	356,927	243.0	273.1	227.5	229.8	256.1	249.2	297.0	211.8	243.1
Unknown	1	1	0												
Total	7,088	3,562	3,526	35,934,967	17,938,419	17,996,548	19.7	19.9	19.6	19.3	20.2	19.2	20.5	18.9	20.2
Age-Adjusted							21.5	25.0	18.8	21.0	22.0	24.2	25.9	18.2	19.4
PACIFIC ISLANDER															
Under 1	0	0	0	1,612	824	788	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
1 to 4	0	0	0	5,968	3,081	2,887	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
5 to 14	0	0	0	20,242	10,342	9,900	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
15 to 24	0	0	0	20,994	10,740	10,254	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
25 to 34	1	0	1	20,422	10,089	10,333	4.9 *	0.0 +	9.7 *	0.0	14.5	-	-	0.0	28.6
35 to 44	3	2	1	21,047	10,435	10,612	14.3 *	19.2 *	9.4 *	0.0	30.4	0.0	45.7	0.0	27.9
45 to 54	5	4	1	15,034	7,444	7,590	33.3 *	53.7 *	13.2 *	4.1	62.4	1.1	106.4	0.0	39.0
55 to 64	9	5	4	8,688	4,226	4,462	103.6 *	118.3 *	89.6 *	35.9	171.3	14.6	222.0	1.8	177.5
65 to 74	12	7	5	4,924	2,356	2,568	243.7 *	297.1 *	194.7 *	105.8	381.6	77.0	517.2	24.0	365.4
75 to 84	8	5	3	2,147	935	1,212	372.6 *	534.8 *	247.5 *	114.4	630.8	66.0	1,003.5	0.0	527.6
85 & Older	1	0	1	785	327	458	127.4 *	0.0 +	218.3 *	0.0	377.1	-	-	0.0	646.3
Unknown	0	0	0												
Total	39	23	16	121,863	60,799	61,064	32.0	37.8	26.2 *	22.0	42.0	22.4	53.3	13.4	39.0
Age-Adjusted							51.3	64.3	39.8 *	34.2	68.3	35.9	92.6	19.4	60.2
WHITE															
Under 1	0	0	0	168,928	86,181	82,747	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
1 to 4	0	0	0	608,995	311,436	297,559	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
5 to 14	1	1	0	1,786,666	918,847	867,819	0.1 *	0.1 *	0.0 +	0.0	0.2	0.0	0.3	-	-
15 to 24	11	8	3	1,831,860	947,345	884,515	0.6 *	0.8 *	0.3 *	0.2	1.0	0.3	1.4	0.0	0.7
25 to 34	27	19	8	1,885,206	961,929	923,277	1.4	2.0	0.9 *	0.9	2.0	1.1	2.9	0.3	1.5
35 to 44	80	51	29	2,579,091	1,318,760	1,260,331	3.1	3.9	2.3	2.4	3.8	2.8	4.9	1.5	3.1
45 to 54	261	152	109	2,633,665	1,323,757	1,309,908	9.9	11.5	8.3	8.7	11.1	9.7	13.3	6.8	9.9
55 to 64	509	289	220	1,933,678	952,538	981,140	26.3	30.3	22.4	24.0	28.6	26.8	33.8	19.5	25.4
65 to 74	762	448	314	1,259,989	594,985	665,004	60.5	75.3	47.2	56.2	64.8	68.3	82.3	42.0	52.4
75 to 84	1,285	659	626	1,003,097	416,813	586,284	128.1	158.1	106.8	121.1	135.1	146.0	170.2	98.4	115.1
85 & Older	841	341	500	404,890	134,702	270,188	207.7	253.2	185.1	193.7	221.7	226.3	280.0	168.8	201.3
Unknown	1	1	0												
Total	3,778	1,969	1,809	16,096,065	7,967,293	8,128,772	23.5	24.7	22.3	22.7	24.2	23.6	25.8	21.2	23.3
Age-Adjusted							17.4	21.2	14.4	16.8	17.9	20.3	22.2	13.7	15.1
TWO OR MORE RACES															
Under 1	0	0	0	10,512	5,369	5,143	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
1 to 4	0	0	0	107,336	54,939	52,397	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
5 to 14	0	0	0	168,750	85,488	83,262	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
15 to 24	0	0	0	126,962	62,819	64,143	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
25 to 34	0	0	0	85,304	41,007	44,297	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
35 to 44	2	2	0	78,644	37,811	40,833	2.5 *	5.3 *	0.0 +	0.0	6.1	0.0	12.6	-	-
45 to 54	2	1	1	63,278	30,017	33,261	3.2 *	3.3 *	3.0 *	0.0	7.5	0.0	9.9	0.0	8.9
55 to 64	8	1	7	37,843	17,751	20,092	21.1 *	5.6 *	34.8 *	6.5	35.8	0.0	16.7	9.0	60.6
65 to 74	2	0	2	21,434	9,955	11,479	9.3 *	0.0 +	17.4 *	0.0	22.3	-	-	0.0	41.6
75 to 84	8	5	3	12,660	5,536	7,124	63.2 *	90.3 *	42.1 *	19.4	107.0	11.2	169.5	0.0	89.8
85 & Older	5	0	5	4,641	1,681	2,960	107.7 *	0.0 +	168.9 *	13.3	202.2	-	-	20.9	317.0
Unknown	0	0	0												
Total	27	9	18	717,364	352,373	364,991	3.8	2.6 *	4.9 *	2.3	5.2	0.9	4.2	2.7	7.2
Age-Adjusted							7.8	5.9 *	9.1 *	4.8	10.8	1.9	9.8	4.9	13.4

Note : Rates are per 100,000 population. ICD-10 codes E10-E14.

Two or More Races, White, Black, Asian and American Indian exclude Hispanic ethnicity.
Hispanic includes any race category.

* Death rate unreliable, relative standard error is greater than or equal to 23 percent
- Standard error indeterminate, death rate based on no (zero) deaths.
- Confidence limit is not calculated for no (zero) deaths.

Source : State of California, Department of Finance; 2003 Population: Population Projections by Age, Race/Ethnicity and Sex, May 2004.
State of California, Department of Health Services, Death Records.

TABLE 2 (Continued)
DIABETES DEATHS
BY RACE/ETHNICITY, AGE, AND SEX
CALIFORNIA, 2002
(By Place of Residence)

AGE GROUPS	DEATHS			POPULATION			RATES			95% CONFIDENCE LIMITS					
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL		MALE		FEMALE	
										LOWER	UPPER	LOWER	UPPER	LOWER	UPPER
TOTAL															
Under 1	0	0	0	516,411	263,488	252,923	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
1 to 4	0	0	0	1,976,342	1,010,549	965,793	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
5 to 14	4	4	0	5,412,306	2,773,346	2,638,960	0.1 *	0.1 *	0.0 +	0.0	0.1	0.0	0.3	-	-
15 to 24	18	12	6	5,045,468	2,631,609	2,413,859	0.4 *	0.5 *	0.2 *	0.2	0.5	0.2	0.7	0.0	0.4
25 to 34	61	37	24	5,288,247	2,724,113	2,564,134	1.2	1.4	0.9	0.9	1.4	0.9	1.8	0.6	1.3
35 to 44	194	121	73	5,607,549	2,846,141	2,761,408	3.5	4.3	2.6	3.0	3.9	3.5	5.0	2.0	3.3
45 to 54	501	270	231	4,679,130	2,308,857	2,370,273	10.7	11.7	9.7	9.8	11.6	10.3	13.1	8.5	11.0
55 to 64	951	540	411	2,962,280	1,429,870	1,532,410	32.1	37.8	26.8	30.1	34.1	34.6	41.0	24.2	29.4
65 to 74	1,592	824	768	1,954,020	896,870	1,057,150	81.5	91.9	72.6	77.5	85.5	85.6	98.1	67.5	77.8
75 to 84	2,266	1,062	1,204	1,383,065	571,663	811,402	163.8	185.8	148.4	157.1	170.6	174.6	196.9	140.0	156.8
85 & Older	1,196	437	759	513,989	171,306	342,683	232.7	255.1	221.5	219.5	245.9	231.2	279.0	205.7	237.2
Total	6,783	3,307	3,476	35,338,807	17,627,812	17,710,995	19.2	18.8	19.6	18.7	19.7	18.1	19.4	19.0	20.3
Age-Adjusted							21.4	24.2	19.1	20.9	21.9	23.4	25.0	18.5	19.8
PACIFIC ISLANDER															
Under 1	0	0	0	1,380	704	676	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
1 to 4	0	0	0	6,245	3,232	3,013	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
5 to 14	0	0	0	20,353	10,399	9,954	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
15 to 24	0	0	0	20,827	10,624	10,203	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
25 to 34	1	0	1	20,421	10,039	10,382	4.9 *	0.0 +	9.6 *	0.0	14.5	-	-	0.0	28.5
35 to 44	0	0	0	20,560	10,290	10,270	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
45 to 54	4	1	3	14,309	7,090	7,219	28.0 *	14.1 *	41.6 *	0.6	55.3	0.0	41.7	0.0	88.6
55 to 64	8	3	5	8,156	3,960	4,196	98.1 *	75.8 *	119.2 *	30.1	166.1	0.0	161.5	14.7	223.6
65 to 74	17	7	10	4,585	2,196	2,389	370.8 *	318.8 *	418.6 *	194.5	547.0	82.6	554.9	159.1	678.0
75 to 84	8	4	4	1,925	831	1,094	415.6 *	481.3 *	365.6 *	127.6	703.6	9.6	953.1	7.3	723.9
85 & Older	2	1	1	643	261	382	311.0 *	383.1 *	261.8 *	0.0	742.1	0.0	1,134.1	0.0	774.9
Total	40	16	24	119,404	59,626	59,778	33.5	26.8 *	40.1	23.1	43.9	13.7	40.0	24.1	56.2
Age-Adjusted							60.9	57.1 *	65.4	41.0	80.9	27.2	87.0	38.1	92.7
WHITE															
Under 1	0	0	0	150,846	76,936	73,910	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
1 to 4	0	0	0	613,463	314,208	299,255	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
5 to 14	2	2	0	1,819,031	935,673	883,358	0.1 *	0.2 *	0.0 +	0.0	0.3	0.0	0.5	-	-
15 to 24	8	7	1	1,802,388	930,873	871,515	0.4 *	0.8 *	0.1 *	0.1	0.8	0.2	1.3	0.0	0.3
25 to 34	28	18	10	1,956,447	999,574	956,873	1.4	1.8 *	1.0 *	0.9	2.0	1.0	2.6	0.4	1.7
35 to 44	84	57	27	2,625,877	1,342,353	1,283,524	3.2	4.2	2.1	2.5	3.9	3.1	5.3	1.3	2.9
45 to 54	240	128	112	2,599,031	1,304,396	1,294,635	9.2	9.8	8.7	8.1	10.4	8.1	11.5	7.0	10.3
55 to 64	423	251	172	1,825,358	898,529	926,829	23.2	27.9	18.6	21.0	25.4	24.5	31.4	15.8	21.3
65 to 74	775	419	356	1,242,058	582,927	659,131	62.4	71.9	54.0	58.0	66.8	65.0	78.8	48.4	59.6
75 to 84	1,348	670	678	996,270	411,887	584,383	135.3	162.7	116.0	128.1	142.5	150.3	175.0	107.3	124.8
85 & Older	781	301	480	391,271	127,805	263,466	199.6	235.5	182.2	185.6	213.6	208.9	262.1	165.9	198.5
Total	3,689	1,853	1,836	16,022,040	7,925,161	8,096,879	23.0	23.4	22.7	22.3	23.8	22.3	24.4	21.6	23.7
Age-Adjusted							17.3	20.5	14.9	16.8	17.9	19.6	21.5	14.2	15.6
TWO OR MORE RACES															
Under 1	0	0	0	33,862	17,293	16,569	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
1 to 4	0	0	0	90,955	46,504	44,451	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
5 to 14	0	0	0	165,720	83,871	81,849	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
15 to 24	0	0	0	121,398	59,842	61,556	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
25 to 34	0	0	0	83,608	40,226	43,382	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
35 to 44	1	0	1	78,501	37,691	40,810	1.3 *	0.0 +	2.5 *	0.0	3.8	-	-	0.0	7.3
45 to 54	1	0	1	60,838	28,791	32,047	1.6 *	0.0 +	3.1 *	0.0	4.9	-	-	0.0	9.2
55 to 64	2	1	1	35,340	16,631	18,709	5.7 *	6.0 *	5.3 *	0.0	13.5	0.0	17.8	0.0	15.8
65 to 74	4	2	2	20,524	9,487	11,037	19.5 *	21.1 *	18.1 *	0.4	38.6	0.0	50.3	0.0	43.2
75 to 84	0	0	0	11,725	5,056	6,669	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
85 & Older	3	1	2	3,997	1,427	2,570	75.1 *	70.1 *	77.8 *	0.0	160.0	0.0	207.4	0.0	185.7
Total	11	4	7	706,468	346,819	359,649	1.6 *	1.2 *	1.9 *	0.6	2.5	0.0	2.3	0.5	3.4
Age-Adjusted							3.4 *	3.0 *	3.7 *	1.3	5.4	0.0	6.1	0.9	6.5

Note : Rates are per 100,000 population. ICD-10 codes E10-E14.

Two or More Races, White, Black, Asian and American Indian exclude Hispanic ethnicity.
Hispanic includes any race category.

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

+ Standard error indeterminate, death rate based on no (zero) deaths.

- Confidence limit is not calculated for no (zero) deaths.

Source : State of California, Department of Finance; 2002 Population: Population Projections by Age, Race/Ethnicity and Sex, May 2004.
State of California, Department of Health Services, Death Records.

TABLE 3
DIABETES DEATHS
BY RACE/ETHNICITY, AGE, AND SEX
CALIFORNIA, 2001
(By Place of Residence)

AGE GROUPS	DEATHS			POPULATION			RATES			95% CONFIDENCE LIMITS					
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL		MALE		FEMALE	
										LOWER	UPPER	LOWER	UPPER	LOWER	UPPER
TOTAL															
Under 1	0	0	0	518,927	264,741	254,186	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
1 to 4	0	0	0	1,960,105	1,002,866	957,239	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
5 to 14	5	5	0	5,377,327	2,755,213	2,622,114	0.1 *	0.2 *	0.0 +	0.0	0.2	0.0	0.3	-	-
15 to 24	12	5	7	4,956,819	2,584,393	2,372,426	0.2 *	0.2 *	0.3 *	0.1	0.4	0.0	0.4	0.1	0.5
25 to 34	49	24	25	5,284,524	2,720,908	2,563,616	0.9	0.9	1.0	0.7	1.2	0.5	1.2	0.6	1.4
35 to 44	193	124	69	5,566,274	2,820,571	2,745,703	3.5	4.4	2.5	3.0	4.0	3.6	5.2	1.9	3.1
45 to 54	540	324	216	4,552,753	2,244,282	2,308,471	11.9	14.4	9.4	10.9	12.9	12.9	16.0	8.1	10.6
55 to 64	934	521	413	2,774,474	1,337,024	1,437,450	33.7	39.0	28.7	31.5	35.8	35.6	42.3	26.0	31.5
65 to 74	1,610	789	821	1,920,122	876,170	1,043,952	83.8	90.1	78.6	79.8	87.9	83.8	96.3	73.3	84.0
75 to 84	2,048	931	1,117	1,341,150	551,924	789,226	152.7	168.7	141.5	146.1	159.3	157.8	179.5	133.2	149.8
85 & Older	1,066	365	701	477,265	155,766	321,499	223.4	234.3	218.0	209.9	236.8	210.3	258.4	201.9	234.2
Total	6,457	3,088	3,369	34,729,740	17,313,858	17,415,882	18.6	17.8	19.3	18.1	19.0	17.2	18.5	18.7	20.0
Age-Adjusted							21.1	23.4	19.3	20.6	21.6	22.5	24.2	18.6	19.9
AMERICAN INDIAN															
Under 1	0	0	0	1,038	535	503	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
1 to 4	0	0	0	10,963	5,601	5,362	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
5 to 14	0	0	0	35,606	18,114	17,492	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
15 to 24	0	0	0	33,978	17,440	16,538	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
25 to 34	0	0	0	30,478	15,239	15,239	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
35 to 44	2	0	2	37,042	18,030	19,012	5.4 *	0.0 +	10.5 *	0.0	12.9	-	-	0.0	25.1
45 to 54	5	4	1	32,579	15,481	17,098	15.3 *	25.8 *	5.8 *	1.9	28.8	0.5	51.2	0.0	17.3
55 to 64	9	5	4	18,780	9,021	9,759	47.9 *	55.4 *	41.0 *	16.6	79.2	6.8	104.0	0.8	81.2
65 to 74	17	5	12	9,505	4,399	5,106	178.9 *	113.7 *	235.0 *	93.8	263.9	14.0	213.3	102.0	368.0
75 to 84	7	3	4	4,872	1,990	2,882	143.7 *	150.8 *	138.8 *	37.2	250.1	0.0	321.3	2.8	274.8
85 & Older	3	1	2	2,163	734	1,429	138.7 *	136.2 *	140.0 *	0.0	295.6	0.0	403.3	0.0	333.9
Total	43	18	25	217,004	106,584	110,420	19.8	16.9 *	22.6	13.9	25.7	9.1	24.7	13.8	31.5
Age-Adjusted							27.5	24.7 *	30.0	19.0	36.0	12.5	36.9	18.0	42.0
ASIAN															
Under 1	0	0	0	47,353	24,180	23,173	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
1 to 4	0	0	0	175,354	90,196	85,158	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
5 to 14	0	0	0	506,076	261,333	244,743	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
15 to 24	0	0	0	558,118	283,682	274,436	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
25 to 34	2	0	2	652,150	316,603	335,547	0.3 *	0.0 +	0.6 *	0.0	0.7	-	-	0.0	1.4
35 to 44	13	9	4	654,655	311,736	342,919	2.0 *	2.9 *	1.2 *	0.9	3.1	1.0	4.8	0.0	2.3
45 to 54	30	24	6	559,132	259,407	299,725	5.4	9.3	2.0 *	3.4	7.3	5.6	13.0	0.4	3.6
55 to 64	72	45	27	317,844	147,600	170,244	22.7	30.5	15.9	17.4	27.9	21.6	39.4	9.9	21.8
65 to 74	120	60	60	226,106	97,488	128,618	53.1	61.5	46.6	43.6	62.6	46.0	77.1	34.8	58.5
75 to 84	169	66	103	127,700	54,562	73,138	132.3	121.0	140.8	112.4	152.3	91.8	150.1	113.6	168.0
85 & Older	87	35	52	36,199	14,378	21,821	240.3	243.4	238.3	189.8	290.8	162.8	324.1	173.5	303.1
Total	493	239	254	3,860,687	1,861,165	1,999,522	12.8	12.8	12.7	11.6	13.9	11.2	14.5	11.1	14.3
Age-Adjusted							16.2	17.6	15.0	14.8	17.7	15.3	19.9	13.2	16.9
BLACK															
Under 1	0	0	0	28,498	14,527	13,971	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
1 to 4	0	0	0	129,558	65,928	63,630	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
5 to 14	1	1	0	405,206	205,997	199,209	0.2 *	0.5 *	0.0 +	0.0	0.7	0.0	1.4	-	-
15 to 24	4	1	3	341,761	176,140	165,621	1.2 *	0.6 *	1.8 *	0.0	2.3	0.0	1.7	0.0	3.9
25 to 34	8	5	3	328,784	162,827	165,957	2.4 *	3.1 *	1.8 *	0.7	4.1	0.4	5.8	0.0	3.9
35 to 44	33	19	14	390,384	194,372	196,012	8.5	9.8	7.1 *	5.6	11.3	5.4	14.2	3.4	10.9
45 to 54	90	43	47	289,801	140,000	149,801	31.1	30.7	31.4	24.6	37.5	21.5	39.9	22.4	40.3
55 to 64	112	65	47	170,354	79,371	90,983	65.7	81.9	51.7	53.6	77.9	62.0	101.8	36.9	66.4
65 to 74	187	82	105	108,917	48,723	60,194	171.7	168.3	174.4	147.1	196.3	131.9	204.7	141.1	207.8
75 to 84	183	67	116	60,927	23,448	37,479	300.4	285.7	309.5	256.8	343.9	217.3	354.2	253.2	365.8
85 & Older	86	26	60	21,657	6,331	15,326	397.1	410.7	391.5	313.2	481.0	252.8	568.5	292.4	490.6
Total	704	309	395	2,275,847	1,117,664	1,158,183	30.9	27.6	34.1	28.6	33.2	24.6	30.7	30.7	37.5
Age-Adjusted							42.8	43.7	41.9	39.6	46.0	38.6	48.9	37.7	46.0
HISPANIC															
Under 1	0	0	0	253,961	129,573	124,388	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
1 to 4	0	0	0	938,287	479,043	459,244	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
5 to 14	2	2	0	2,385,392	1,219,250	1,166,142	0.1 *	0.2 *	0.0 +	0.0	0.2	0.0	0.4	-	-
15 to 24	6	2	4	2,090,373	1,113,138	977,235	0.3 *	0.2 *	0.4 *	0.1	0.5	0.0	0.4	0.0	0.8
25 to 34	15	5	10	2,148,856	1,142,461	1,006,395	0.7 *	0.4 *	1.0 *	0.3	1.1	0.1	0.8	0.4	1.6
35 to 44	49	33	16	1,698,401	876,555	821,846	2.9	3.8	1.9 *	2.1	3.7	2.5	5.0	1.0	2.9
45 to 54	144	84	60	1,013,711	498,885	514,826	14.2	16.8	11.7	11.9	16.5	13.2	20.4	8.7	14.6
55 to 64	269	135	134	515,325	240,811	274,514	52.2	56.1	48.8	46.0	58.4	46.6	65.5	40.5	57.1
65 to 74	482	221	261	315,002	138,023	176,979	153.0	160.1	147.5	139.4	166.7	139.0	181.2	129.6	165.4
75 to 84	450	187	263	153,901	62,845	91,056	292.4	297.6	288.8	265.4	319.4	254.9	340.2	253.9	323.7
85 & Older	184	51	133	44,732	15,161	29,571	411.3	336.4	449.8	351.9	470.8	244.1	428.7	373.3	526.2
Total	1,601	720	881	11,557,941	5,915,745	5,642,196	13.9	12.2	15.6	13.2	14.5	11.3	13.1	14.6	16.6
Age-Adjusted							36.7	37.0	36.0	34.8	38.6	34.1	40.0	33.6	38.4

Note : Rates are per 100,000 population. ICD-10 codes E10-E14.
Two or More Races, White, Black, Asian and American Indian exclude Hispanic ethnicity.
Hispanic includes any race category.

* Death rate unreliable, relative standard error is greater than or equal to 23 percent
+ Standard error indeterminate, death rate based on no (zero) deaths.
- Confidence limit is not calculated for no (zero) deaths.

Source : State of California, Department of Finance; 2001 Population; Population Projections by Age, Race/Ethnicity and Sex, May 2004.
State of California, Department of Health Services, Death Records.

TABLE 3 (Continued)
DIABETES DEATHS
BY RACE/ETHNICITY, AGE, AND SEX
CALIFORNIA, 2001
(By Place of Residence)

AGE GROUPS	DEATHS			POPULATION			RATES			95% CONFIDENCE LIMITS					
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL		MALE		FEMALE	
										LOWER	UPPER	LOWER	UPPER	LOWER	UPPER
TOTAL															
Under 1	0	0	0	518,927	264,741	254,186	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
1 to 4	0	0	0	1,960,105	1,002,866	957,239	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
5 to 14	5	5	0	5,377,327	2,755,213	2,622,114	0.1 *	0.2 *	0.0 +	0.0	0.2	0.0	0.3	-	-
15 to 24	12	5	7	4,956,819	2,584,393	2,372,426	0.2 *	0.2 *	0.3 *	0.1	0.4	0.0	0.4	0.1	0.5
25 to 34	49	24	25	5,284,524	2,720,908	2,563,616	0.9	0.9	1.0	0.7	1.2	0.5	1.2	0.6	1.4
35 to 44	193	124	69	5,566,274	2,820,571	2,745,703	3.5	4.4	2.5	3.0	4.0	3.6	5.2	1.9	3.1
45 to 54	540	324	216	4,552,753	2,244,282	2,308,471	11.9	14.4	9.4	10.9	12.9	12.9	16.0	8.1	10.6
55 to 64	934	521	413	2,774,474	1,337,024	1,437,450	33.7	39.0	28.7	31.5	35.8	35.6	42.3	26.0	31.5
65 to 74	1,610	789	821	1,920,122	876,170	1,043,952	83.8	90.1	78.6	87.9	87.9	83.8	96.3	73.3	84.0
75 to 84	2,048	931	1,117	1,341,150	551,924	789,226	152.7	168.7	141.5	146.1	159.3	157.8	179.5	133.2	149.8
85 & Older	1,066	365	701	477,265	155,766	321,499	223.4	234.3	218.0	209.9	236.8	210.3	258.4	201.9	234.2
Total	6,457	3,088	3,369	34,729,740	17,313,858	17,415,882	18.6	17.8	19.3	18.1	19.0	17.2	18.5	18.7	20.0
Age-Adjusted							21.1	23.4	19.3	20.6	21.6	22.5	24.2	18.6	19.9
PACIFIC ISLANDER															
Under 1	0	0	0	1,310	667	643	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
1 to 4	0	0	0	6,581	3,414	3,167	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
5 to 14	0	0	0	20,255	10,333	9,922	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
15 to 24	0	0	0	20,544	10,503	10,041	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
25 to 34	0	0	0	20,167	9,883	10,284	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
35 to 44	5	2	3	19,860	9,978	9,882	25.2 *	20.0 *	30.4 *	3.1	47.2	0.0	47.8	0.0	64.7
45 to 54	5	4	1	13,551	6,720	6,831	36.9 *	59.5 *	14.6 *	4.6	69.2	1.2	117.9	0.0	43.3
55 to 64	13	4	9	7,615	3,702	3,913	170.7 *	108.0 *	230.0 *	77.9	263.5	2.2	213.9	79.7	380.3
65 to 74	8	5	3	4,259	2,035	2,224	187.8 *	245.7 *	134.9 *	57.7	318.0	30.3	461.1	0.0	287.5
75 to 84	5	2	3	1,674	725	949	298.7 *	275.9 *	316.1 *	36.9	560.5	0.0	658.2	0.0	673.8
85 & Older	1	0	1	521	200	321	191.9 *	0.0 +	311.5 *	0.0	568.1	-	-	0.0	922.1
Total	37	17	20	116,337	58,160	58,177	31.8	29.2 *	34.4	21.6	42.1	15.3	43.1	19.3	49.4
Age-Adjusted							52.7	49.3 *	54.9 *	34.2	71.3	23.5	75.1	29.1	80.7
WHITE															
Under 1	0	0	0	153,306	78,168	75,138	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
1 to 4	0	0	0	624,482	320,442	304,040	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
5 to 14	2	2	0	1,862,124	957,903	904,221	0.1 *	0.2 *	0.0 +	0.0	0.3	0.0	0.5	-	-
15 to 24	2	2	0	1,796,019	926,636	869,383	0.1 *	0.2 *	0.0 +	0.0	0.3	0.0	0.5	-	-
25 to 34	24	14	10	2,022,119	1,034,396	987,723	1.2	1.4 *	1.0 *	0.7	1.7	0.6	2.1	0.4	1.6
35 to 44	91	61	30	2,687,568	1,372,319	1,315,249	3.4	4.4	2.3	2.7	4.1	3.3	5.6	1.5	3.1
45 to 54	265	164	101	2,585,433	1,296,139	1,289,294	10.2	12.7	7.8	9.0	11.5	10.7	14.6	6.3	9.4
55 to 64	457	266	191	1,711,671	840,997	870,674	26.7	31.6	21.9	24.3	29.1	27.8	35.4	18.8	25.0
65 to 74	795	415	380	1,236,729	576,477	660,252	64.3	72.0	57.6	59.8	68.8	65.1	78.9	51.8	63.3
75 to 84	1,232	605	627	981,305	403,775	577,530	125.5	149.8	108.6	118.5	132.6	137.9	161.8	100.1	117.1
85 & Older	704	252	452	368,575	117,768	250,807	191.0	214.0	180.2	176.9	205.1	187.6	240.4	163.6	196.8
Total	3,572	1,781	1,791	16,029,331	7,925,020	8,104,311	22.3	22.5	22.1	21.6	23.0	21.4	23.5	21.1	23.1
Age-Adjusted							17.3	20.2	14.9	16.7	17.9	19.3	21.2	14.2	15.6
TWO OR MORE RACES															
Under 1	0	0	0	33,461	17,091	16,370	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
1 to 4	0	0	0	74,880	38,242	36,638	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
5 to 14	0	0	0	162,668	82,283	80,385	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
15 to 24	0	0	0	116,026	56,854	59,172	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
25 to 34	0	0	0	81,970	39,499	42,471	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
35 to 44	0	0	0	78,364	37,581	40,783	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
45 to 54	1	1	0	58,546	27,650	30,896	1.7 *	3.6 *	0.0 +	0.0	5.1	0.0	10.7	-	-
55 to 64	2	1	1	32,885	15,522	17,363	6.1 *	6.4 *	5.8 *	0.0	14.5	0.0	19.1	0.0	17.0
65 to 74	1	1	0	19,604	9,025	10,579	5.1 *	11.1 *	0.0 +	0.0	15.1	0.0	32.8	-	-
75 to 84	2	1	1	10,771	4,579	6,192	18.6 *	21.8 *	16.1 *	0.0	44.3	0.0	64.6	0.0	47.8
85 & Older	1	0	1	3,418	1,194	2,224	29.3 *	0.0 +	45.0 *	0.0	86.6	-	-	0.0	133.1
Total	7	4	3	672,593	329,520	343,073	1.0 *	1.2 *	0.9 *	0.3	1.8	0.0	2.4	0.0	1.9
Age-Adjusted							2.4 *	2.8 *	1.9 *	0.6	4.2	0.0	5.6	0.0	4.1

Note : Rates are per 100,000 population. ICD-10 codes E10-E14.
 Two or More Races, White, Black, Asian and American Indian exclude Hispanic ethnicity.
 Hispanic includes any race category.
 * Death rate unreliable, relative standard error is greater than or equal to 23 percent
 + Standard error indeterminate, death rate based on no (zero) deaths.
 - Confidence limit is not calculated for no (zero) deaths.

Source : State of California, Department of Finance; 2001 Population: Population Projections by Age, Race/Ethnicity and Sex, May 2004.
 State of California, Department of Health Services, Death Records.

TABLE 4 (Continued)
DIABETES DEATHS
BY RACE/ETHNICITY, AGE, AND SEX
CALIFORNIA, 2000
(By Place of Residence)

AGE GROUPS	DEATHS			POPULATION			RATES			95% CONFIDENCE LIMITS					
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL		MALE		FEMALE	
										LOWER	UPPER	LOWER	UPPER	LOWER	UPPER
TOTAL															
Under 1	1	1	0	491,073	251,541	239,532	0.2 *	0.4 *	0.0 +	0.0	0.6	0.0	1.2	-	-
1 to 4	1	1	0	1,990,873	1,018,496	972,377	0.1 *	0.1 *	0.0 +	0.0	0.1	0.0	0.3	-	-
5 to 14	4	3	1	5,310,526	2,720,715	2,589,811	0.1 *	0.1 *	0.0 *	0.0	0.1	0.0	0.2	0.0	0.1
15 to 24	14	10	4	4,860,696	2,532,547	2,328,149	0.3 *	0.4 *	0.2 *	0.1	0.4	0.2	0.6	0.0	0.3
25 to 34	55	36	19	5,245,273	2,702,010	2,543,263	1.0	1.3	0.7	0.8	1.3	0.9	1.8	0.4	1.1
35 to 44	217	127	90	5,499,218	2,780,657	2,718,561	3.9	4.6	3.3	3.4	4.5	3.8	5.4	2.6	4.0
45 to 54	475	269	206	4,376,695	2,156,077	2,220,618	10.9	12.5	9.3	9.9	11.8	11.0	14.0	8.0	10.5
55 to 64	849	442	407	2,641,560	1,270,830	1,370,730	32.1	34.8	29.7	30.0	34.3	31.5	38.0	26.8	32.6
65 to 74	1,566	774	792	1,894,010	858,793	1,035,217	82.7	90.1	76.5	78.6	86.8	83.8	96.5	71.2	81.8
75 to 84	1,982	964	1,018	1,294,989	530,932	764,057	153.1	181.6	133.2	146.3	159.8	170.1	193.0	125.1	141.4
85 & Older	1,038	387	651	438,285	139,496	298,789	236.8	277.4	217.9	222.4	251.2	249.8	305.1	201.1	234.6
Unknown	1	1	0												
Total	6,203	3,015	3,188	34,043,198	16,962,094	17,081,104	18.2	17.8	18.7	17.8	18.7	17.1	18.4	18.0	19.3
Age-Adjusted							21.1	24.1	18.9	20.6	21.6	23.2	25.0	18.3	19.6
PACIFIC ISLANDER															
Under 1	0	0	0	1,549	808	741	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
1 to 4	0	0	0	6,723	3,451	3,272	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
5 to 14	0	0	0	19,919	10,178	9,741	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
15 to 24	0	0	0	19,722	10,093	9,629	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
25 to 34	0	0	0	19,378	9,582	9,796	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
35 to 44	3	2	1	18,657	9,368	9,289	16.1 *	21.3 *	10.8 *	0.0	34.3	0.0	50.9	0.0	31.9
45 to 54	3	2	1	12,625	6,288	6,337	23.8 *	31.8 *	15.8 *	0.0	50.7	0.0	75.9	0.0	46.7
55 to 64	4	4	0	6,958	3,397	3,561	57.5 *	117.8 *	0.0 +	1.1	113.8	2.4	233.1	-	-
65 to 74	5	3	2	3,792	1,804	1,988	131.9 *	166.3 *	100.6 *	16.3	247.4	0.0	354.5	0.0	240.0
75 to 84	2	0	2	1,472	624	848	135.9 *	0.0 +	235.8 *	0.0	324.2	-	-	0.0	562.7
85 & Older	0	0	0	405	147	258	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
Unknown	0	0	0												
Total	17	11	6	111,200	55,740	55,460	15.3 *	19.7 *	10.8 *	8.0	22.6	8.1	31.4	2.2	19.5
Age-Adjusted							25.6 *	29.0 *	21.1 *	12.4	38.9	11.3	46.7	3.0	39.2
WHITE															
Under 1	0	0	0	155,299	79,680	75,619	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
1 to 4	1	1	0	644,970	331,193	313,777	0.2 *	0.3 *	0.0 +	0.0	0.5	0.0	0.9	-	-
5 to 14	4	3	1	1,904,163	979,233	924,930	0.2 *	0.3 *	0.1 *	0.0	0.4	0.0	0.7	0.0	0.3
15 to 24	7	6	1	1,794,122	925,355	868,767	0.4 *	0.6 *	0.1 *	0.1	0.7	0.1	1.2	0.0	0.3
25 to 34	22	13	9	2,083,017	1,066,877	1,016,140	1.1	1.2 *	0.9 *	0.6	1.5	0.6	1.9	0.3	1.5
35 to 44	111	68	43	2,742,427	1,398,317	1,344,110	4.0	4.9	3.2	3.3	4.8	3.7	6.0	2.2	4.2
45 to 54	236	136	100	2,535,616	1,269,871	1,265,745	9.3	10.7	7.9	8.1	10.5	8.9	12.5	6.4	9.4
55 to 64	385	208	177	1,641,307	804,962	836,345	23.5	25.8	21.2	21.1	25.8	22.3	29.4	18.0	24.3
65 to 74	785	396	389	1,240,624	573,721	666,903	63.3	69.0	58.3	58.8	67.7	62.2	75.8	52.5	64.1
75 to 84	1,245	635	610	962,896	394,629	568,267	129.3	160.9	107.3	122.1	136.5	148.4	173.4	98.8	115.9
85 & Older	706	268	438	343,548	106,876	236,672	205.5	250.8	185.1	190.3	220.7	220.7	280.8	167.7	202.4
Unknown	1	1	0												
Total	3,503	1,735	1,768	16,047,989	7,930,714	8,117,275	21.8	21.9	21.8	21.1	22.6	20.8	22.9	20.8	22.8
Age-Adjusted							17.4	20.5	15.1	16.8	17.9	19.5	21.4	14.4	15.8
TWO OR MORE RACES															
Under 1	0	0	0	22,030	11,299	10,731	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
1 to 4	0	0	0	70,383	35,859	34,524	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
5 to 14	0	0	0	159,161	80,445	78,716	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
15 to 24	0	0	0	110,712	53,977	56,735	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
25 to 34	1	0	1	80,840	38,958	41,882	1.2 *	0.0 +	2.4 *	0.0	3.7	-	-	0.0	7.1
35 to 44	1	0	1	77,748	37,181	40,567	1.3 *	0.0 +	2.5 *	0.0	3.8	-	-	0.0	7.3
45 to 54	1	0	1	55,803	26,327	29,476	1.8 *	0.0 +	3.4 *	0.0	5.3	-	-	0.0	10.0
55 to 64	3	1	2	31,014	14,674	16,340	9.7 *	6.8 *	12.2 *	0.0	20.6	0.0	20.2	0.0	29.2
65 to 74	3	0	3	18,728	8,608	10,120	16.0 *	0.0 +	29.6 *	0.0	34.1	-	-	0.0	63.2
75 to 84	1	0	1	9,868	4,142	5,726	10.1 *	0.0 +	17.5 *	0.0	30.0	-	-	0.0	51.7
85 & Older	2	2	0	2,876	969	1,907	69.5 *	206.4 *	0.0 +	0.0	165.9	0.0	492.5	-	-
Unknown	0	0	0												
Total	12	3	9	639,163	312,439	326,724	1.9 *	1.0 *	2.8 *	0.8	2.9	0.0	2.0	1.0	4.6
Age-Adjusted							4.1 *	3.8 *	5.0 *	1.6	6.5	0.0	8.4	1.6	8.3

Note: Rates are per 100,000 population. ICD-10 codes E10-E14.

Two or More Races, White, Black, Asian and American Indian exclude Hispanic ethnicity.
Hispanic includes any race category.

* Death rate unreliable, relative standard error is greater than or equal to 23 percent
+ Standard error indeterminate, death rate based on no (zero) deaths.
- Confidence limit is not calculated for no (zero) deaths.

Source: State of California, Department of Finance; 2000 Population: Population Projections by Age, Race/Ethnicity and Sex, May 2004.
State of California, Department of Health Services, Death Records.

TABLE 5
DIABETES DEATHS
CALIFORNIA, 2001-2003
(By Place of Residence)

COUNTY	2001-2003 DEATHS (Average)	PERCENT	2002 POPULATION	CRUDE RATE	AGE-ADJUSTED RATE	95% CONFIDENCE LIMITS	
						LOWER	UPPER
CALIFORNIA	6,776.0	100.0	35,338,807	19.2	21.3	20.8	21.8
ALAMEDA	290.3	4.3	1,488,074	19.5	22.8	20.1	25.4
ALPINE	0.0	0.0	1,292	0.0 +	0.0 +	-	-
AMADOR	7.3	0.1	36,637	20.0 *	14.8 *	4.0	25.6
BUTTE	51.0	0.8	209,770	24.3	19.9	14.4	25.5
CALAVERAS	5.3	0.1	42,524	12.5 *	8.8 *	1.2	16.3
COLUSA	3.0	0.0 a	19,635	15.3 *	16.8 *	0.0	35.7
CONTRA COSTA	173.7	2.6	989,807	17.5	18.4	15.7	21.2
DEL NORTE	2.3	0.0 a	27,982	8.3 *	8.2 *	0.0	18.7
EL DORADO	20.0	0.3	165,463	12.1	12.0	6.7	17.3
FRESNO	194.0	2.9	836,207	23.2	28.8	24.7	32.9
GLENN	8.3	0.1	26,969	30.9 *	28.7 *	9.2	48.2
HUMBOLDT	40.7	0.6	128,492	31.6	31.7	21.9	41.4
IMPERIAL	38.0	0.6	149,360	25.4	32.8	22.2	43.3
INYO	3.3	0.0 a	18,456	18.1 *	12.0 *	0.0	24.9
KERN	159.0	2.3	697,856	22.8	27.2	23.0	31.5
KINGS	50.3	0.7	135,123	37.3	59.1	42.6	75.6
LAKE	15.0	0.2	61,352	24.4 *	17.2 *	8.5	26.0
LASSEN	4.7	0.1	34,129	13.7 *	17.2 *	1.4	32.9
LOS ANGELES	2,064.0	30.5	9,889,170	20.9	23.8	22.8	24.9
MADERA	37.0	0.5	129,585	28.6	30.8	20.9	40.7
MARIN	31.7	0.5	250,179	12.7	10.4	6.8	14.1
MARIPOSA	1.7	0.0 a	17,589	9.5 *	6.7 *	0.0	17.0
MENDOCINO	20.0	0.3	88,353	22.6	20.6	11.5	29.7
MERCED	63.3	0.9	223,904	28.3	38.1	28.7	47.5
MODOC	3.0	0.0 a	9,400	31.9 *	21.8 *	0.0	46.5
MONO	1.3	0.0 a	13,441	9.9 *	15.4 *	0.0	45.5
MONTEREY	66.7	1.0	413,819	16.1	19.6	14.9	24.4
NAPA	32.7	0.5	128,966	25.3	20.3	13.3	27.4
NEVADA	16.7	0.2	96,045	17.4 *	13.4 *	6.8	19.9
ORANGE	433.3	6.4	2,959,646	14.6	17.6	15.9	19.2
PLACER	45.0	0.7	273,338	16.5	15.1	10.7	19.5
PLUMAS	4.0	0.1	21,117	18.9 *	13.4 *	0.0	27.0
RIVERSIDE	278.7	4.1	1,682,408	16.6	16.8	14.8	18.8
SACRAMENTO	246.3	3.6	1,302,647	18.9	20.8	18.2	23.4
SAN BENITO	4.3	0.1	55,955	7.7 *	11.1 *	0.5	21.7
SAN BERNARDINO	394.3	5.8	1,816,398	21.7	30.6	27.5	33.6
SAN DIEGO	488.3	7.2	2,944,585	16.6	18.6	17.0	20.3
SAN FRANCISCO	141.3	2.1	788,292	17.9	16.1	13.4	18.7
SAN JOAQUIN	157.0	2.3	607,896	25.8	31.8	26.8	36.8
SAN LUIS OBISPO	44.7	0.7	255,449	17.5	14.8	10.4	19.1
SAN MATEO	103.7	1.5	711,793	14.6	13.8	11.2	16.5
SANTA BARBARA	73.0	1.1	408,471	17.9	17.6	13.5	21.6
SANTA CLARA	239.7	3.5	1,717,059	14.0	17.0	14.8	19.2
SANTA CRUZ	36.3	0.5	259,164	14.0	16.0	10.7	21.2
SHASTA	36.7	0.5	172,130	21.3	16.4	11.0	21.7
SIERRA	1.3	0.0 a	3,524	37.8 *	23.1 *	0.0	63.1
SISKIYOU	12.0	0.2	44,628	26.9 *	20.2 *	8.3	32.1
SOLANO	77.7	1.1	411,498	18.9	21.1	16.4	25.8
SONOMA	90.7	1.3	470,723	19.3	17.4	13.8	21.0
STANISLAUS	113.3	1.7	477,919	23.7	28.2	23.0	33.4
SUTTER	20.3	0.3	82,696	24.6	25.5	14.4	36.5
TEHAMA	16.3	0.2	57,649	28.3 *	21.8 *	11.0	32.6
TRINITY	3.3	0.0 a	13,271	25.1 *	16.8 *	0.0	34.8
TULARE	103.7	1.5	383,164	27.1	35.3	28.5	42.1
TUOLUMNE	10.7	0.2	56,545	18.9 *	13.4 *	5.3	21.4
VENTURA	149.3	2.2	788,282	18.9	21.5	18.1	25.0
YOLO	33.7	0.5	180,193	18.7	24.6	16.3	33.0
YUBA	12.7	0.2	62,788	20.2 *	23.6 *	10.6	36.7

Note : Rates are per 100,000 population. ICD-10 codes E10-E14.

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

+ Standard error indeterminate, death rate based on no (zero) deaths.

a Represents a percentage of more than zero but less than 0.05.

- Confidence limit is not calculated for no (zero) deaths.

Source : State of California, Department of Finance; 2002 Population: Population Projections by Age, Race/Ethnicity and Sex, May 2004.
State of California, Department of Health Services, Death Records.