

**San Diego County Health and Human Services Agency
Division of Community Epidemiology**

Regional Health Status Profiles, 1998-1999

County of San Diego

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Introduction

This is the third edition of the **Regional Health Status Profiles** for the County of San Diego. This report contains selected health status indicators recommended by the Centers for Disease Control and Prevention (CDC) for monitoring state and local progress toward achieving some of the goals set forth in *Healthy People 2000*. In addition, it provides complementary data to the **San Diego County Health Status Report**¹ to help monitor the effectiveness of programs and services at the regional and county levels.

The **Regional Health Status Profiles** reflect a continued commitment to provide comprehensive information on the condition and progress of the county's regional health. It will also serve to identify regional trends in mortality and morbidity and provide comparison data to San Diego County, the State of California, the United States, and the Healthy People 2000 Objectives.

Content

This document is divided into two primary sections: 1) demographic and economic profiles of the six regions defined by zip code areas and 2) health status indicators by county, region, and race/ethnicity. Highlighted cells indicate regional rates that meet Healthy People 2000 goals. Regional and county rates reflect 1998 mortality and 1999 morbidity data. Mortality rates are age-adjusted to 1940 standard population figures. California rates reflect 3-year averages, 1996-1998, published in the County Health Status Profile 2000 by the Department of Health Services and California Conference of Local Health Officers.

¹ The San Diego County Health Status Report can be accessed at the following internet address:
http://www.co.san-diego.ca.us/cnty/cntydepts/health/services/report/00_toc.pdf

Data Sources

Regional and San Diego County Data: Data on communicable diseases in San Diego County are obtained from reports by physicians and other health care providers, laboratories and a variety of other institutions such as hospitals and schools via confidential morbidity reports submitted to **Community Epidemiology, HHS**. State law (Title 17, Health, Section 2500) requires reporting of more than 84 communicable diseases and select conditions to the local health department. Data on causes of death were obtained from the California Department of Health Services, Center for Health Statistics, Vital Statistics Section, Death Statistical Master Files.

Regional and county population data used in the calculation of population-based rates are obtained from 1998-1999 estimates from the San Diego Association of Governments (SANDAG). Estimates of the population by demographic and economic characteristics are also based on SANDAG estimates whenever possible.

California Data: California rates were based on data from the Department of Health Services: Death Statistical Master Files, 1996-1998, and the Department of Finance: 1997 Race/Ethnic Population by County with Age and Sex Detail, June 1999. Race-specific infant mortality data were obtained from the Department of Health Services: Birth Cohort-Perinatal Outcome Files, 1994-1996.

Healthy People 2000 Objectives U.S. Department of Health and Human Services. Healthy People 2000: National Health Promotion and Disease Prevention Objectives for the Nation. Washington, D.C.: Public Health Services, DHHS Pub. No. (PHS) 91-50212, 1991.

Healthy People 2010 (Conference Edition): U.S. Department of Health and Human Services. National Health Promotion and Disease Prevention Objectives for the Nation. Washington, D.C.: Public Health Service, 2000.

Data Limitations

The data used to generate this report are limited by the following:

1. ***Underreporting of cases:*** The proportion of diagnosed cases of reportable diseases for which notification does not occur varies for each disease.
2. ***Incomplete information:*** Some case reports lack complete information (e.g., race/ethnicity, address, etc.). Thus, total cases in stratified tables and figures may be fewer than total overall county cases.
3. ***Onset date versus report date:*** This report includes some cases reported during calendar year 1999 but with illness onset dates in 1998. Similarly, some 1998 cases may not have been reported until 1999. Slight differences in the number of cases and rates of disease in 1999 may be observed in subsequent annual health status reports. Any such disparities are likely to be small.
4. ***Places of acquisition of infection:*** Diseases reported in San Diego County may have been acquired outside the county. Thus, certain disease rates may reflect the place of diagnosis rather than the location where infection was acquired.
5. ***Geographic rates:*** As discussed previously, population data used as the denominators for rates by geographic location are based on census tracts and aggregated to zip code areas since communicable disease and death data are primarily reported by zip code of residence. For calculation of rates, the zip code was used to obtain both the numerator and the denominator from the same population. In certain areas, no approximations could be made. Regional specifications could not be identified for some cases due to unknown or unavailable zip code data. Readers of this document should acknowledge that geographic variables may change and that this may contribute to changes in cases of morbidity and mortality by regions over time.

Definitions

Annual incidence: The number of new cases in 1999 divided by the 1999 county population estimate multiplied by 100,000.

Births to adolescents: Number of births to teenagers 15-17 years old per 1,000 females ages 15-17 per year.

Case Fatality: The number of deaths in 1999 due to the disease (when data were available) divided by the number of new cases of the disease in 1997. Note that deaths may be due to infections acquired prior to 1999.

Consensus Health Indicators: To address both the requirements of the Year 2000 Health Objectives Planning Act and Objective 22.1 of Healthy People 2000, a consensus set of 18 health status indicators has been developed to assist communities in assessing their general health status and in focusing local, state, and national efforts in tracking the year 2000 objectives. Refer to MMWR July 12, 1991/Vol. 40/ No. 27.

Death (mortality) rate: Death rates are per 100,000 population. The age-adjusted death rate is the hypothetical rate that the Region/County/State would have if its population were distributed by age in the same proportions as the 1940 United States population.

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 International Classification of Diseases, Ninth Revision (ICD-9):

| | |
|---------------------------------------|---|
| Heart disease..... | 391-398.9, 402, 404-429.9 |
| Coronary heart disease..... | 402, 410-414, 429.2 |
| Cerebrovascular disease (Stroke)..... | 430-438 |
| Lung cancer..... | 162.2-162.9 |
| Breast cancer (female)..... | 174 |
| COPD..... | 490-496 |
| Diabetes..... | 250 |
| Drug-related..... | 292, 304, 305.2-305.9, E850- E858, E950-E950.5, E962.0, E980.0-E980.5 |
| Motor vehicle crashes..... | E810-E825 |
| Suicide..... | E950-E959 |
| Homicide..... | E960-E969 |
| Firearm injuries..... | E922.0-E922.3, E922.8-E922.9, E955.0-E955.4, E965.0-E965.4, E970, E985.0-E985.4 |
| Unintentional injuries..... | E800-E949 |
| All cause mortality..... | 001-E999 |

The cardiovascular disease health indicator has been divided into coronary heart disease and cerebrovascular disease (stroke), because Year 2000 National Health Objectives have been separately established for these two diagnostic groups.

Etiology: The causative agent of disease, e.g., bacterium, parasite, virus, etc.

Infant mortality: Infant deaths are deaths that occurred during the first year of life. Number of infant birth rates and infant death rates are expressed as rates per 1,000 live births. Infant death rates show the true risk of dying and allow direct comparisons between areas of interest.

Low birthweight: Birthweight less than 2,500 grams or 5.5 pounds for live births.

Morbidity Rates: Morbidity rates are calculated by dividing the number of events by the county population estimate for the specified year, multiplied by 100,000. Regional rates, San Diego County rates, and California rates reflect incidence.

Number of cases: The number of new cases of the disease with an onset in 1999; if the onset was unknown, the date of report was used.

Inadequate Prenatal Care: Prenatal care not begun during the 1st trimester of pregnancy or no prenatal care.

Prevention: A description of county programs or actions taken to control the occurrence of a specific disease.

Race/Ethnicity: Persons were classified into the following mutually exclusive race/ethnicity categories: White, Hispanic, Black, Asian and Other. Persons of Hispanic origin were classified as Hispanic regardless of racial identification. All other groups do not include Hispanics in their enumeration. Asian and Others include Asians, Pacific Islanders, and Native Americans to include American Indian, Alaskan Native and Aleuts. Racial/ethnic assignments were based on self-identification.

Race-specific rates: Estimates were available from SANDAG for the four race/ethnic groups and were based on the 1990 U.S. census using SANDAG's non-census year population estimates.

For certain conditions and certain racial/ethnic groups, the number of events may be quite small. Caution should be taken when interpreting rates calculated from small numbers due to the instability of resulting rates. The National Center for Health Statistics (NCHS) recommends not using rates when the frequency is less than 20. Race-specific rates are expressed as rates per 100,000.

Stratified Data: Information stratified by age, sex, race/ethnicity, seasonality, trends in disease incidence and geographic location may be presented. In calculating rates, cases of unknown race/ethnicity, age, or geographic area are allocated among the categories in proportion to the relative number of known in the categories. Following guidelines by the Centers for Disease Control and Prevention, category-specific disease incidence rates are not given when over 25% of cases cannot be classified among the known categories.

Syphilis: Syphilis cases include primary and secondary syphilis.

Year 2000 Objectives: National target for lowering disease incidence (adjusted to year 1940 population standards) by the year 2000. Objectives were established by the U.S. Public Health Service.

Year 2010 Objectives: National target for lowering disease incidence (adjusted to year 2000 population standards) by the year 2010. Objectives were established by the U.S. Public Health Service.

CRUDE RATES and AGE-ADJUSTED RATES

An unstandardized rate (usually referred to as a “crude rate”) is obtained by dividing the total number of vital events (e.g. deaths) by the total population at risk, then multiplying by some convenient basis (e.g. 100,000). Subpopulations with varying age compositions can have highly disparate death rates, since the risk of dying is primarily a function of age. Therefore, areas with a large elderly population tend to have a high death rate simply because the risk of dying is determined mostly by age. The effects of different age composition among areas can be removed from the county death rates by the process of “age-adjustments,” which allows a more direct comparison with the Year 2000 National Objectives and the Year 2010 National Objectives.

Age-adjusted death rates are the hypothetical rates obtained by calculating age-specific rates and multiplying these rates by the 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 county death rates in this report is the 1940 United States Standard Million Population. The age-adjusted rates allow San Diego County and regions to be comparable with respect to the effect of age to other area comparisons. 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.

In the report, the 1940 U.S. population was used as the “standard population” because the national objectives in Healthy People 2000 are based on the 1940 U.S. population. The use of an agreed upon standard population permits direct comparisons with both national and the year 2000 Objectives. Healthy People 2010 Objectives use year 2000 standard million population, which will generally result in higher adjusted mortality rates.

Data for the morbidity tables were not age-adjusted. Although age and aging do impact morbidity, the effect is not as prominent as its impact on mortality.

Birth cohort infant death rates are also not age-adjusted. Since the deaths are linked to the state’s birth data on a record by record basis, these rates are based on a numerator (deaths) and a denominator (births) from the same record. Age-adjusting is not applicable to these data. 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 (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. death) used to calculate the rate. The smaller the frequency of occurrence of an event, the greater the likelihood of random fluctuations within a specified time period. The more rare an event, the relatively less stable its occurrence from observation. As a consequence, areas with only a few deaths, or a few cases of morbidity, can have highly unstable rates from year to year.

For appropriate statistical methodologies in comparing independent rates or percentages, please see NCHS reports listed in the Bibliography by Curtin and Klein² on “Direct Standardization” and by Kleinman³ on “Infant Mortality.”

² Curtin LR, Klein RJ. Direct Standardization (Age-Adjusted Death Rates), Healthy People 2000 Statistical Notes. National Center for Health Statistics, DHHS Pub. No. (PHS) 95-1237, March 1995; No. 6-Revised.

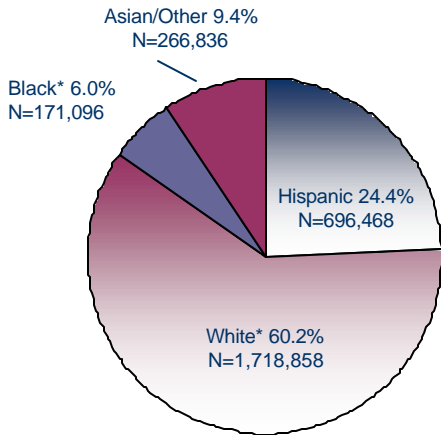
³ Kleinman JC. Infant Mortality. Healthy People 2000 Statistical Notes. National Center for Health Statistics, DHHS Pub. No. (PHS) 92-1237, Winter 1991; Vol. No.2.

San Diego County

1999 Population: 2,853,258

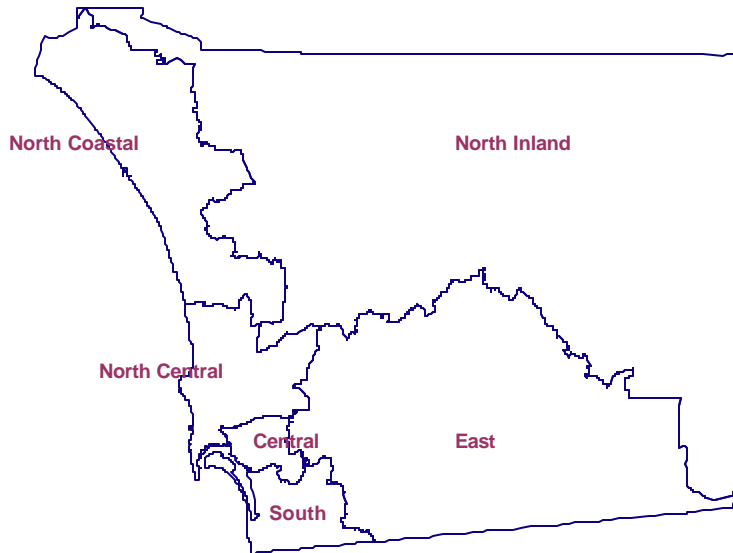
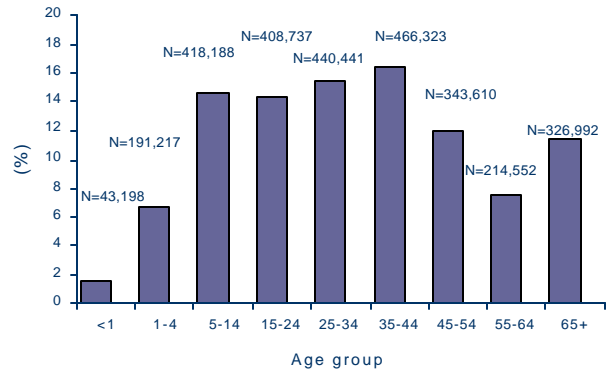
Demographic Characteristics

Figure 1. Population estimates by race/ethnicity.



* Non-Hispanic

Figure 2. Population estimates by age.



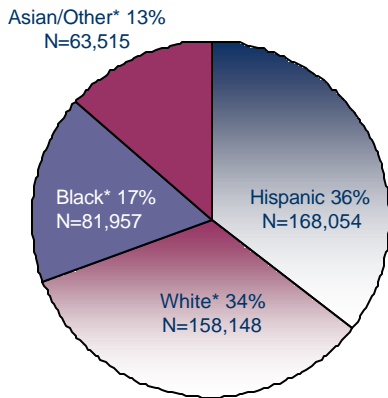
- CENTRAL**
 - Central San Diego
 - Southeast San Diego
 - Mid City
- NORTH CENTRAL**
 - Peninsula
 - Kearny Mesa
 - Coastal
 - University
 - Del Mar/Mira Mesa
 - Miramar
 - Elliott Navajo
- SOUTH**
 - Coronado
 - National City
 - Sweetwater
 - Chula Vista
 - South Bay
- NORTH COASTAL**
 - Carlsbad
 - Encinitas
 - Oceanside
 - Pendleton
 - Vista
- EAST**
 - Jamul
 - Spring Valley
 - Lemon Grove
 - La Mesa
 - El Cajon
 - Santee
 - Lakeside
 - Harbison Crest
 - Alpine
 - Laguna/Pine Valley
 - Mountain Empire
- NORTH INLAND**
 - North San Diego
 - Poway
 - Ramona
 - Escorido
 - San Marcos
 - Valley Center
 - Pauma
 - Fallbrook
 - Palomar/Julian
 - Anza-Borrego Springs

Central Region

1999 Population: 471,674

Demographic and Economic Characteristics

Figure 1. Population estimates by race/ethnicity.



* Non-Hispanic

Figure 2. Population estimates by age.

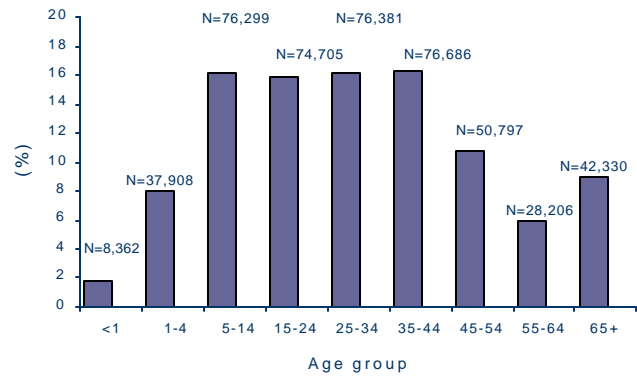


Figure 3. Household income estimates.

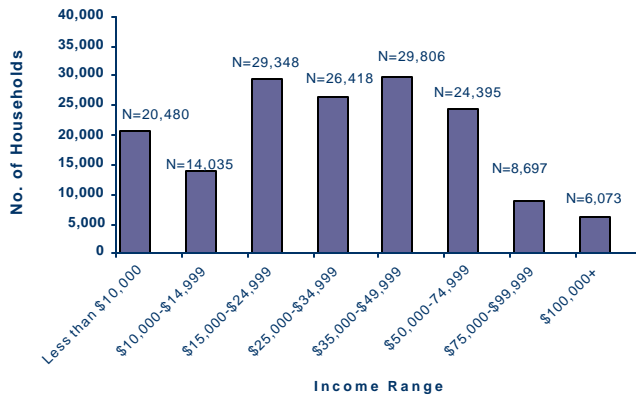
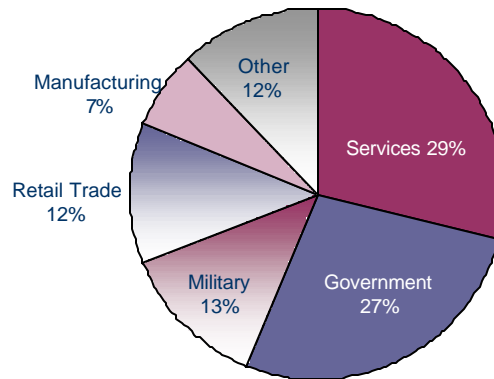


Figure 4. Estimates of employment by industry.



Note: Other category includes agriculture and mining, construction, transportation, communication, wholesale trade, finance, insurance, and real estate.

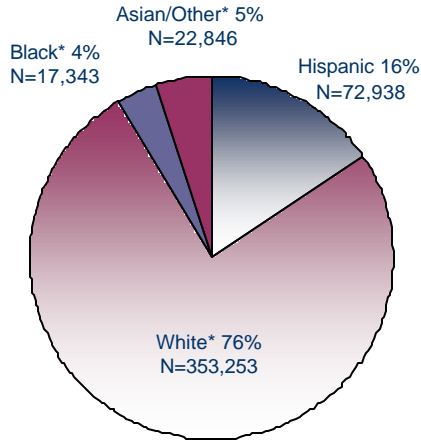
Source: Controlled to State of California Employment Development Dept. estimates of self-employed and domestic workers and average annual employment by industry for the San Diego region. This excludes self-employed and domestic workers.

East Region

1999 Population: 466,380

Demographic and Economic Characteristics

Figure 1. Population estimates by race/ethnicity.



* Non-Hispanic

Figure 2. Population estimates by age.

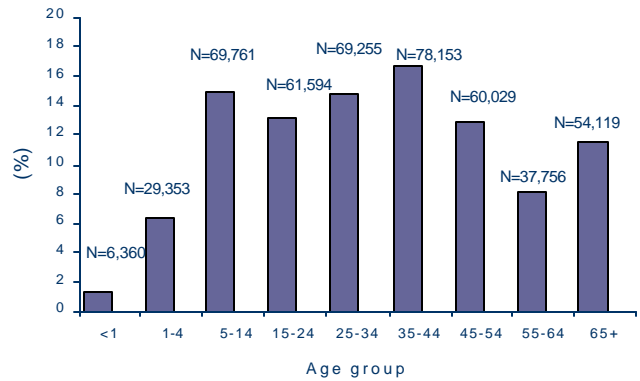


Figure 3. Household income estimates.

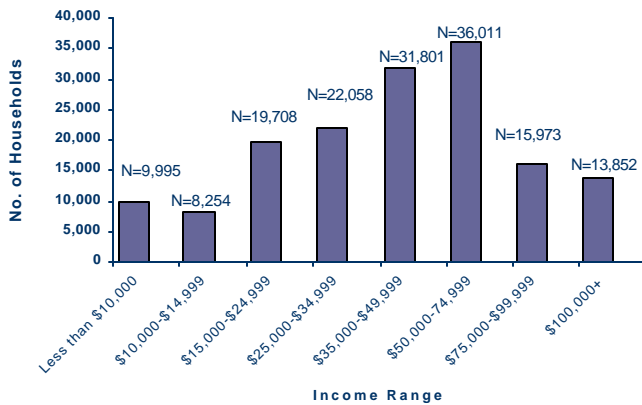
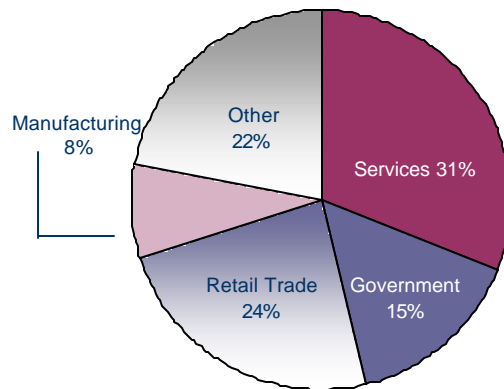


Figure 4. Estimates of employment by industry.



Note: Other category includes agriculture and mining, construction, transportation, communication, wholesale trade, finance, insurance, and real estate.

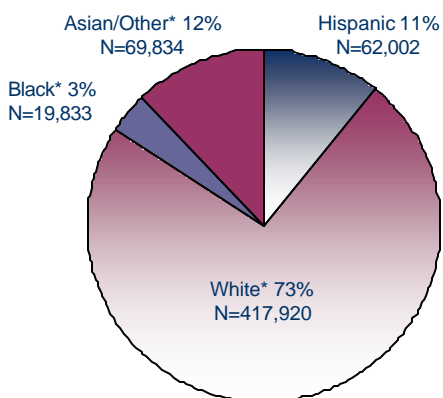
Source: Controlled to State of California Employment Development Dept. estimates of self-employed and domestic workers and average annual employment by industry for the San Diego region. This excludes self-employed and domestic workers.

North Central Region

1999 Population: 569,589

Demographic and Economic Characteristics

Figure 1. Population estimates by race/ethnicity.



* Non-Hispanic

Figure 2. Population estimates by age.

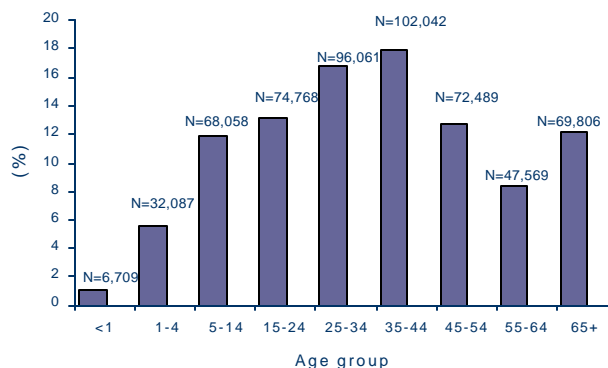


Figure 3. Household income estimates.

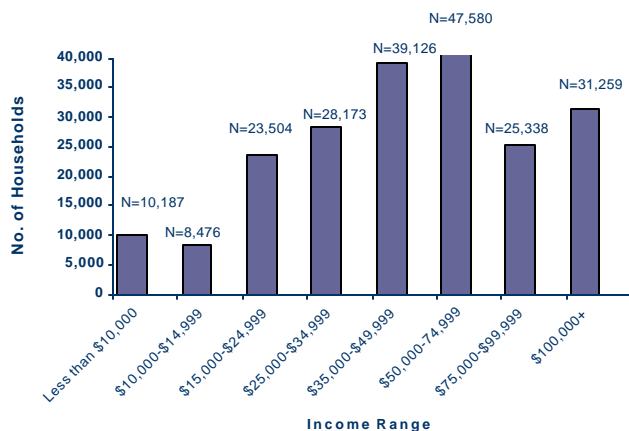
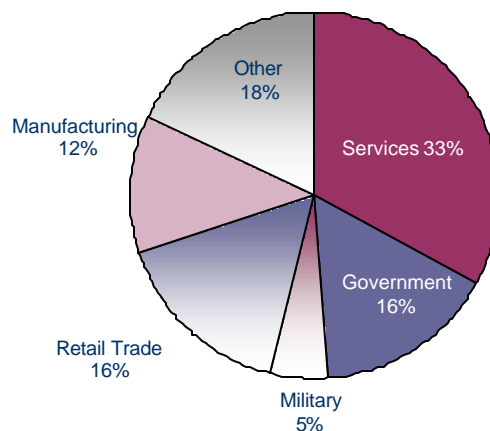


Figure 4. Estimates of employment by industry.



Note: Other category includes agriculture and mining, construction, transportation, communication, wholesale trade, finance, insurance, and real estate.

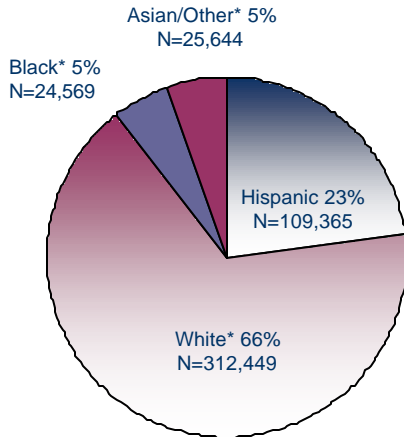
Source: Controlled to State of California Employment Development Dept. estimates of self-employed and domestic workers and average annual employment by industry for the San Diego region. This excludes self-employed and domestic workers.

North Coastal Region

1999 Population: 472,027

Demographic and Economic Characteristics

Figure 1. Population estimates by race/ethnicity.



* Non-Hispanic

Figure 2. Population estimates by age.

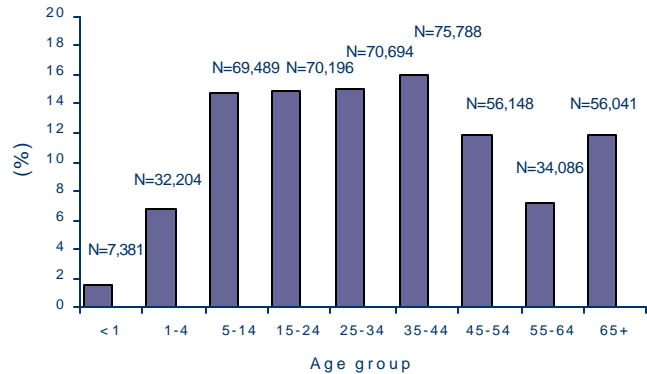


Figure 3. Household income estimates.

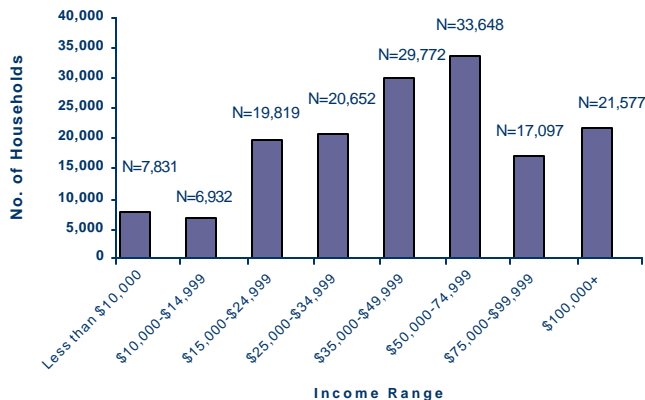
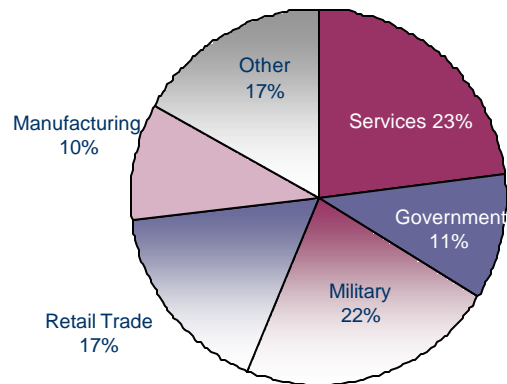


Figure 4. Estimates of employment by industry.



Note: Other category includes agriculture and mining, construction, transportation, communication, wholesale trade, finance, insurance, and real estate.

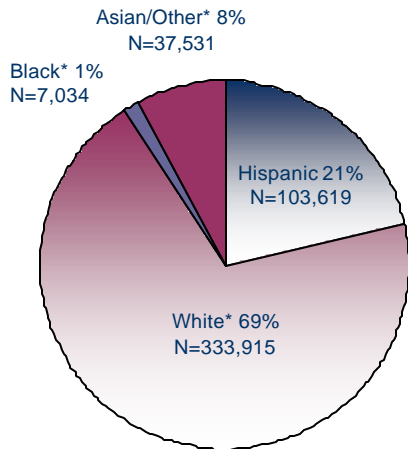
Source: Controlled to State of California Employment Development Dept. estimates of self-employed and domestic workers and average annual employment by industry for the San Diego region. This excludes self-employed and domestic workers.

North Inland Region

1999 Population: 482,099

Demographic and Economic Characteristics

Figure 1. Population estimates by race/ethnicity.



* Non-Hispanic

Figure 2. Population estimates by age.

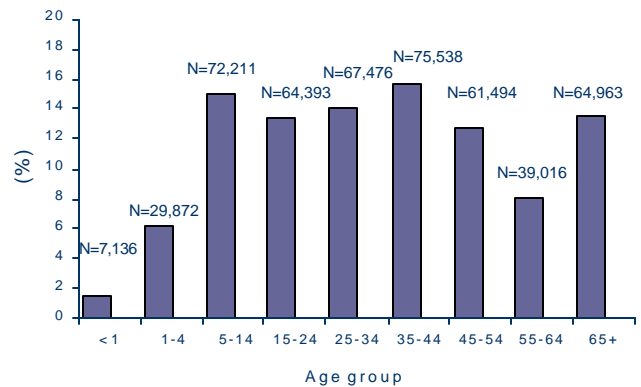


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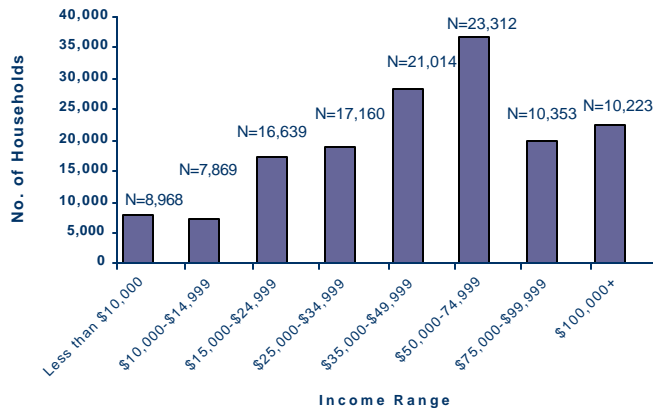
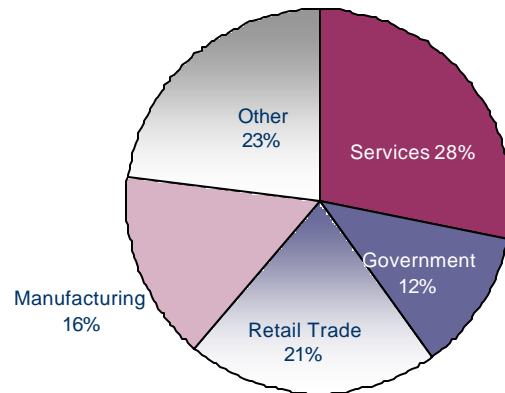


Figure 4. Estimates of employment by industry.



Note: Other category includes agriculture and mining, construction, transportation, communication, wholesale trade, finance, insurance, and real estate.

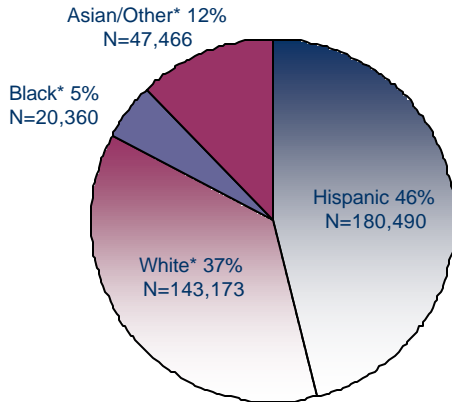
Source: Controlled to State of California Employment Development Dept. estimates of self-employed and domestic workers and average annual employment by industry for the San Diego region. This excludes self-employed and domestic workers.

South Region

1999 Population: 391,489

Demographic and Economic Characteristics

Figure 1. Population estimates by race/ethnicity.



* Non-Hispanic

Figure 2. Population estimates by age.

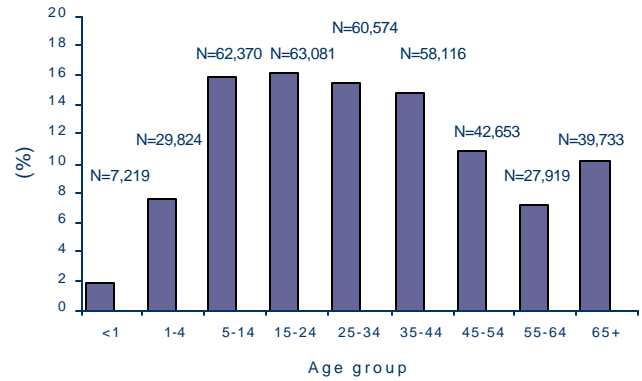


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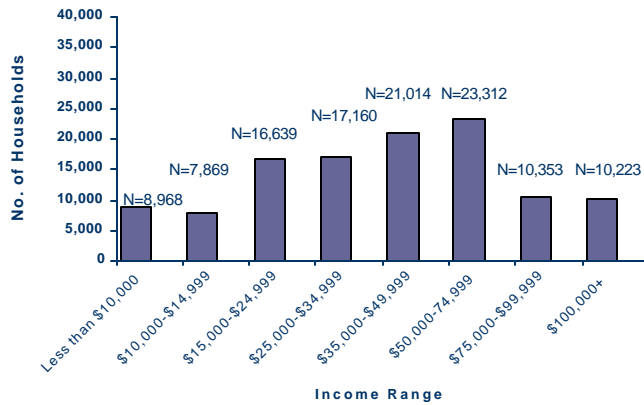
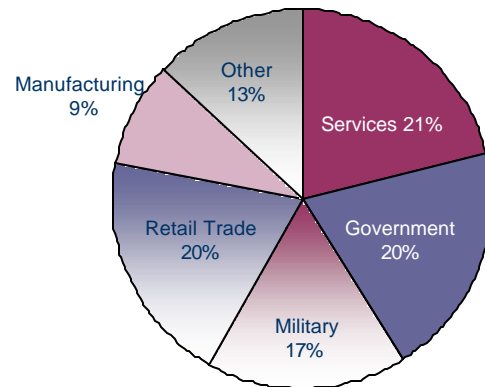


Figure 4. Estimates of employment by industry.



Note: Other category includes agriculture and mining, construction, transportation, communication, wholesale trade, finance, insurance, and real estate.

Source: Controlled to State of California Employment Development Dept. estimates of self-employed and domestic workers and average annual employment by industry for the San Diego region. This excludes self-employed and domestic workers.

San Diego County Health Indicators

Status Comparison to California, National, and Healthy People 2000 and 2010 Objectives



Table 1. Summary of selected **health indicators**, San Diego County, California, with status comparison to State, National and Healthy People 2000 and 2010 Objectives.

| SUMMARY of SELECTED HEALTH INDICATORS | | | | | | |
|--|-------------------------------------|----------------|-----------------------|----------------------------------|--|--|
| INDICATORS OF HEALTH STATUS OUTCOME | RATES | | | | | |
| | San Diego County⁶ | Status | CA⁴ | United States¹ | Healthy People 2000¹ | Healthy People 2010² |
| Infant mortality rate as measured by rate (per 1,000) live births among infants less than one year of age (1998) | 5.2 ^{6,7} | ● | 6.4 | 7.2 | 7.0 | 4.5 |
| 1998 Deaths per 100,000 population (age-adjusted mortality rates) | | | | | | |
| Heart disease | 100.3 | Not applicable | 109.8 | 126.6 | None established | None established |
| Coronary Heart Disease | 84.0 | ● | 93.9 | 135.0 | 100.0 | 166.0 |
| Cerebrovascular disease (Stroke) | 22.2 | ○ | 25.3 | 30.3 | 20.0 | 48.0 |
| Lung cancer | 27.3 | ● | 30.0 | 37.9 | 42.0 | 44.8 |
| Breast cancer (female) | 19.4 | ● | 18.3 | 27.7 | 20.6 | 22.2 |
| Asthma | 1.2 | Not applicable | 1.5 | None established | None established | Overall rate Not established |
| Chronic obstructive pulmonary disease (COPD) | 22.0 | ● | 21.5 ⁹ | 18.7 | 25.0 | 18.0 |
| Diabetes | 7.8 | ● | 12.0 ⁹ | 38.0 | 34.0 | 45.0 |
| Drug-related | 7.6 | ○ | 7.5 | 3.8 | 3.0 | 6.0 |
| Motor vehicle crashes | 9.4 | ● | 11.4 | 15.9 | 14.2 | 9.0 |
| Suicide | 10.1 | ● | 9.4 | 0.6 | 10.5 | 6.0 |
| Homicide | 3.9 | ● | 9.0 | 8.0 | 7.2 | 3.2 |
| Firearm injuries | 7.0 | ● | 11.6 | 12.9 | 11.6 | 4.9 |
| Unintentional injuries | 21.9 | ● | 24.2 | 34.5 | 29.3 | 20.8 |
| All cause mortality | 388.5 | Not applicable | 425.4 ⁹ | 471.7 ⁹ | None established | None established |

Note: Healthy People 2010 Goals are age-adjusted to the 2000 population. Other data and Healthy People 2000 Goals are age-adjusted to the 1940 population. Superscripted numbers indicate references used (see page 36).

- San Diego County met Healthy People 2000 objectives, ○ Healthy People 2000 objectives not met.

Table 1. Summary of selected health indicators, San Diego County, California, with status comparison to State, National and Healthy People 2000 and 2010 Objectives – Contd.

| SUMMARY of SELECTED HEALTH INDICATORS | | | | | | |
|--|-------------------------|----------------|-----------------------|----------------------------------|--|--|
| INDICATORS OF HEALTH STATUS OUTCOME | RATES | | | | | |
| 1999 Reported incidence per 100,000 population | | | | | | |
| | San Diego County | Status | CA | United States¹ | Healthy People 2000¹ | Healthy People 2010² |
| AIDS | 17.5 ¹¹ | ● | 17.3 ⁴ | 19.5 | 43.0 | 1.0 |
| Measles | 0.04 ¹² | ○ | 0.08 ⁴ | 0.03 | 0.0 | 0.0 |
| Tuberculosis | 10.4 ¹³ | ○ | 12.4 ⁴ | 6.8 | 3.5 | 1.0 |
| Syphilis (primary and secondary) | 0.9 ¹⁴ | ● | 1.2 ⁴ | 3.2 | 4.0 | 0.2 |
| Hepatitis A | 9.7 ³ | ● | 9.9 ⁵ | 31.0 | 23.0 | 4.5 |
| Campylobacter | 14.4 ³ | ● | 15.5 ⁵ | 50.0 | 25.0 | 12.3 |
| Salmonella | 12.8 ³ | ● | 12.0 ⁵ | 18.0 | 16.0 | 6.8 |
| Shigella | 7.7 ³ | Not applicable | 6.8 ⁵ | Not available | None established | None established |
| Giardia | 16.0 ³ | Not applicable | 10.9 ⁵ | Not available | None established | None established |
| INDICATORS OF RISK FACTORS | | | | | | |
| | San Diego County | Status | CA⁴ | United States¹ | Healthy People 2000¹ | Healthy People 2010² |
| Incidence of low birthweight (1996-98) | 5.9.% ¹⁰ | ○ | 6.1% | 7.6% | 5.0% | 5.0% |
| Births to females 15-17 years old per 1,000 adolescents (1996-98) | 32.3 ¹⁰ | ● | 57.2 | 72.0 | 50.0 | 46.0 |
| Percentage of mothers delivering infants who did not receive prenatal care in the first trimester (1998) | 21.2 ^{7,8} | ○ | 18.4 | 17.0 | 10.0 | 10.0 |
| Child poverty as measured by the proportion of children less than 18 years of age living in families at or below poverty level | 16.0% ¹⁵ | Not applicable | 18.2% ¹⁶ | 19.9% ¹⁵ | None established | None established |

Note: Healthy People 2010 Goals are age-adjusted to the 2000 population. Other data and Healthy People 2000 Goals are age-adjusted to the 1940 population. Superscripted numbers indicate references used (see page 36).

- San Diego County met Healthy People 2000 objectives. ○ Healthy People 2000 objectives not met.

Regional Health Indicators

Status Comparison to Healthy People 2000



Table 2. Summary of selected **regional health indicators**, San Diego County, California, with status comparison to Healthy People 2000 Objectives.

| REGIONAL HEALTH INDICATORS | | | | | | | | |
|--|------------------------|-------------|----------------------|----------------------|---------------------|--------------|-------------------------------------|----------------------------|
| INDICATORS OF HEALTH STATUS OUTCOME | RATES by REGION | | | | | | | |
| | Central | East | North Central | North Coastal | North Inland | South | San Diego County⁶ | HP 2000¹ |
| Infant mortality rate as measured by rate (per 1,000) live births among infants less than one year of age (1998) | 6.4 | 5.3 | 4.9 | 6.2 | 5.0 | 3.5 | 5.2 ^{6,7} | 7.0 |
| 1998 Deaths per 100,000 population⁶ (age-adjusted mortality rates) | | | | | | | | |
| Heart disease** | 127.7 | 107.0 | 89.0 | 89.1 | 82.6 | 120.1 | 100.3 | None established |
| Coronary heart disease | 110.8 | 91.1 | 78.3 | 73.0 | 66.8 | 103.0 | 84.0 | 100.0 |
| Cerebrovascular disease (Stroke) | 29.5 | 23.7 | 18.5 | 19.3 | 21.2 | 22.4 | 22.2 | 48.0 |
| Lung cancer | 31.1 | 35.6 | 22.0 | 26.8 | 23.2 | 27.1 | 27.3 | 42.0 |
| Breast cancer (female) | 18.0 | 17.9 | 17.0 | 20.3 | 23.7 | 18.3 | 19.4 | 20.6 |
| Asthma | 2.7 | 0.3 | 0.9 | 1.1 | 1.1 | 0.9 | 1.2 | None established |
| Chronic obstructive pulmonary disease (COPD) | 25.2 | 30.1 | 15.7 | 23.6 | 21.2 | 16.9 | 22.0 | 18.0 |
| Diabetes | 11.0 | 8.5 | 7.2 | 5.4 | 6.4 | 10.2 | 7.8 | 34.0 |
| Drug-related | 12.8 | 6.4 | 5.2 | 7.1 | 4.4 | 7.1 | 7.6 | 3.0 |
| Motor vehicle crashes | 7.6 | 11.6 | 6.4 | 7.8 | 13.7 | 7.9 | 9.4 | 14.2 |
| Suicide | 12.9 | 9.1 | 10.5 | 11.5 | 7.0 | 8.4 | 10.1 | 10.5 |
| Homicide | 6.8 | 4.5 | 1.8 | 4.0 | 2.1 | 3.7 | 3.9 | 7.2 |
| Firearm injuries | 9.3 | 6.6 | 6.1 | 8.5 | 5.1 | 5.9 | 7.0 | 11.6 |
| Unintentional injuries | 23.7 | 23.5 | 15.9 | 19.7 | 24.2 | 19.7 | 21.9 | 29.3 |
| All cause mortality | 473.6 | 432.3 | 333.4 | 347.4 | 350.1 | 411.6 | 388.5 | None established |

Note: Regional mortality rates and Healthy People 2000 objectives are age-adjusted to the 1940 population.

Superscripted numbers indicate references used (see page 36).

Highlighted cells indicate regions **did not** meet Healthy People 2000 Objectives.

** Healthy People 2000 objectives not established for this indicator, comparisons were not done.

Table 2. Summary of selected **regional health indicators**, San Diego County, California, with status comparison to Healthy People 2000 Objectives - Contd.

| REGIONAL HEALTH INDICATORS | | | | | | | | |
|--|--------------|-------|---------------|---------------|--------------|-------|---------------------|----------------------|
| INDICATORS OF HEALTH STATUS OUTCOME | RATES | | | | | | | |
| 1999 Reported incidence per 100,000 population | | | | | | | | |
| | Central | East | North Central | North Coastal | North Inland | South | San Diego County | HP 2000 ¹ |
| AIDS | 50.9 | 7.1 | 7.0 | 7.0 | 5.4 | 13.3 | 17.5 ¹¹ | 43.0 |
| Measles | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.04 ¹² | 0.0 |
| Tuberculosis | 11.2 | 6.0 | 13.3 | 5.1 | 8.3 | 19.7 | 10.4 ¹³ | 3.5 |
| Syphilis (primary and secondary) | 3.2 | 0.6 | 0.2 | 0.2 | 0.2 | 1.0 | 0.9 ¹⁴ | 10.0 |
| Hepatitis A | 17.6 | 7.5 | 5.6 | 8.3 | 8.9 | 10.7 | 9.7 ³ | 4.5 |
| Campylobacter | 14.4 | 13.5 | 14.0 | 9.1 | 16.0 | 19.2 | 14.4 ³ | 12.3 |
| Salmonella | 10.8 | 10.3 | 12.8 | 16.7 | 11.0 | 12.3 | 12.8 ³ | 6.8 |
| Shigella** | 14.0 | 4.7 | 5.6 | 5.1 | 6.8 | 10.7 | 7.7 ³ | None established |
| Giardia** | 33.5 | 13.9 | 16.5 | 9.7 | 14.1 | 5.6 | 16.0 ³ | None established |
| INDICATORS OF RISK FACTORS | | | | | | | | |
| | Central | East | North Central | North Coastal | North Inland | South | San Diego County | HP 2000 ¹ |
| Incidence of low birthweight (1996-98) | 6.6% | 6.1% | 5.8% | 5.6% | 5.5% | 5.5% | 5.9% ¹⁰ | 5.0% |
| Births to females 15-17 years old per 1,000 adolescents (1996-98) ¹⁰ | 53.2 | 25.3 | 13.3 | 34.5 | 25.3 | 42.8 | 32.3 ¹⁰ | 50.0 |
| Percentage of mothers delivering infants who did not receive prenatal care in the first trimester (1998) | 26.4 | 14.8 | 10.1 | 25.2 | 20.2 | 20.6 | 21.2 ^{7,8} | 10.0 |
| Child poverty as measured by the proportion of children less than 18 years of age living in families at or below poverty level** | 32.0% | 12.0% | 8.0% | 12.0% | 12.0% | 20.0% | 21.6% ¹⁵ | None established |

Note: Regional mortality rates and Healthy People 2000 objectives are age-adjusted to the 1940 population. Superscripted numbers indicate references used (see page 36).

Highlighted cells indicate regions **did not** meet Healthy People 2000 Objectives.

** Healthy People 2000 objectives not established for this indicator, comparisons were not done.

San Diego County Health Indicators

Status Comparisons by Race/Ethnicity



Table 3. Selected **county-wide** health indicators by race/ethnicity, San Diego County, CA.

| SELECTED COUNTY HEALTH INDICATORS | | | | | |
|--|--------------------------------|--------------------------|--|------------------|---------------|
| INDICATORS OF HEALTH STATUS OUTCOME | RATES by RACE/ETHNICITY | | | | |
| | | African Americans | Asian/ Pacific Islanders and Others | Hispanics | Whites |
| San Diego County Infant mortality rate as measured by rate (per 1,000) live births among infants less than one year of age (1998) ^{6,7} | 5.2 | 12.3 | 4.2 | 4.7 | 4.6 |
| California infant mortality rate as measured by rate (per 1,000) live births among infants less than one year of age (1996-1998) ⁴ | 6.4 | 13.7 | 5.3 | 6.0 | 5.9 |
| Deaths per 100,000 population⁶ (age-adjusted mortality rates) | | | | | |
| | San Diego County | African Americans | Asian/ Pacific Islanders and Others | Hispanics | Whites |
| Heart disease | 100.3 | 167.8 | 75.3 | 74.5 | 103.1 |
| Coronary heart disease | 84.0 | 139.8 | 65.4 | 64.5 | 86.1 |
| Cerebrovascular disease (Stroke) | 22.2 | 39.6 | 22.9 | 20.1 | 21.3 |
| Lung cancer | 27.3 | 41.1 | 23.8 | 10.0 | 29.8 |
| Breast cancer (female) | 19.4 | 23.3 | 14.0 | 13.3 | 20.6 |
| Asthma | 1.2 | 4.3 | 0.8 | 1.0 | 2.0 |
| Chronic obstructive pulmonary disease (COPD) | 22.0 | 25.7 | 9.8 | 7.3 | 24.9 |
| Diabetes | 7.8 | 19.6 | 12.6 | 12.6 | 6.1 |
| Drug-related | 7.6 | 12.2 | 2.7 | 6.0 | 8.5 |
| Motor vehicle crashes | 9.4 | 9.4 | 9.0 | 12.0 | 8.4 |
| Suicide | 10.1 | 6.2 | 5.8 | 5.7 | 12.1 |
| Homicide | 3.9 | 14.0 | 4.1 | 5.0 | 2.3 |
| Firearm injuries | 7.0 | 11.9 | 4.9 | 6.4 | 6.5 |
| Unintentional injuries | 21.9 | 29.0 | 13.6 | 23.0 | 22.0 |
| All cause mortality | 388.5 | 586.5 | 305.0 | 304.1 | 396.2 |

Note: Mortality rates by race/ethnicity are age-adjusted to the 1940 population. **Numbers in red** indicate rates higher than the overall San Diego County rate. Superscripted numbers indicate references used (see page 36).

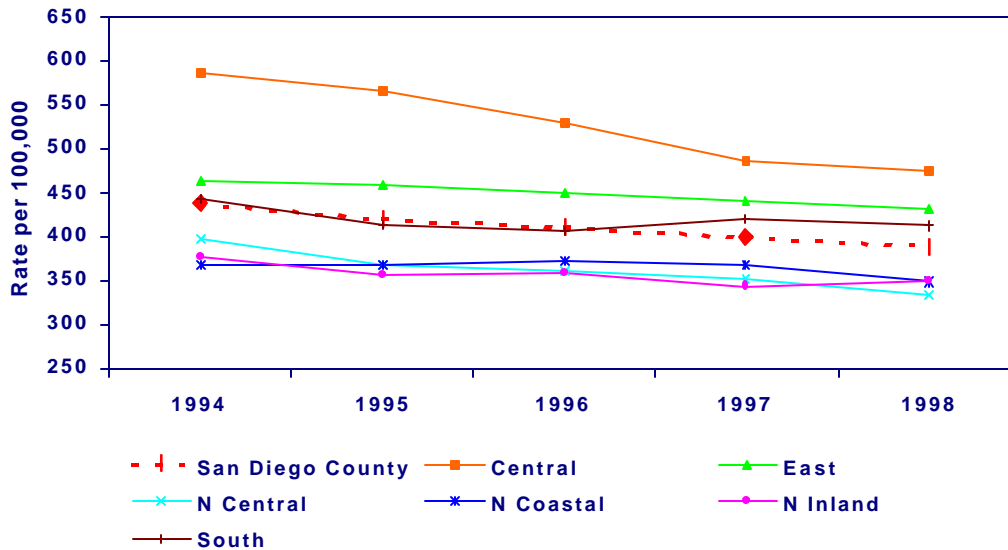
Table 3. Selected **county-wide** health indicators by race/ethnicity, San Diego County, CA – Contd.

| SELECTED COUNTY HEALTH INDICATORS | | | | | |
|--|--------------------------------|--------------------------|--|------------------|---------------|
| INDICATORS OF HEALTH STATUS OUTCOME | RATES by RACE/ETHNICITY | | | | |
| 1999 Reported incidence per 100,000 population | | | | | |
| | San Diego County | African Americans | Asian/ Pacific Islanders and Others | Hispanics | Whites |
| AIDS ¹¹ | 17.5 | 35.1 | 3.0 | 20.5 | 12.4 |
| Measles ¹² | 0.04 | 0.0 | 0.0 | 0.1 | 0.0 |
| Tuberculosis ¹³ | 10.4 | 12.3 | 39.7 | 19.7 | 2.0 |
| Syphilis (primary and secondary) ¹⁴ | 0.9 | 4.1 | 0.4 | 1.3 | 0.5 |
| Hepatitis A ³ | 9.7 | 6.4 | 6.4 | 18.8 | 5.6 |
| Campylobacter ³ | 14.4 | 8.2 | 8.6 | 19.7 | 11.4 |
| Salmonella ³ | 12.8 | 12.3 | 7.9 | 14.9 | 9.6 |
| Shigella ³ | 7.7 | 9.4 | 5.2 | 15.7 | 4.2 |
| Giardia ³ | 16.0 | 42.7 | 12.7 | 7.6 | 13.7 |
| INDICATORS OF RISK FACTORS | | | | | |
| | San Diego County | African Americans | Asian/ Pacific Islanders | Hispanics | Whites |
| Incidence of low birthweight per 1,000 live births (1996-1998) ¹⁰ | 59.0 | 103.0 | 75.7 | 51.0 | 58.0 |
| Births to females 15-17 years old or younger per 1,000 adolescents (1998) ^{7,8} | 29.0 | 39.3 | 14.3 | 63.8 | 10.3 |
| Percentage of mothers delivering infants who did not receive prenatal care in the first trimester (1998) ^{7,8} | 21.2 | 24.5 | 17.0 | 30.0 | 12.8 |
| Child poverty as measured by the proportion of children less than 18 years of age living in families at or below poverty level | 16.0% ¹⁵ | Not available | Not available | Not available | Not available |

Note: Mortality rates by race/ethnicity are age-adjusted to the 1940 population. . **Numbers in red** indicate rates higher than the overall San Diego County rate.

Estimated cases and rates were calculated by applying the proportion among those with known race/ethnicity to total cases. Superscripted numbers indicate references used (see page 36).

Figure 1. All Cause Mortality, 1994-1998
San Diego County Residents



Source: California Death Statistical Master File (DSMF)
Note: Rates are per 100,000 population and are adjusted to 1940 U.S. Standard Population.

Table 4. All Cause Mortality by Region and Age, 1998

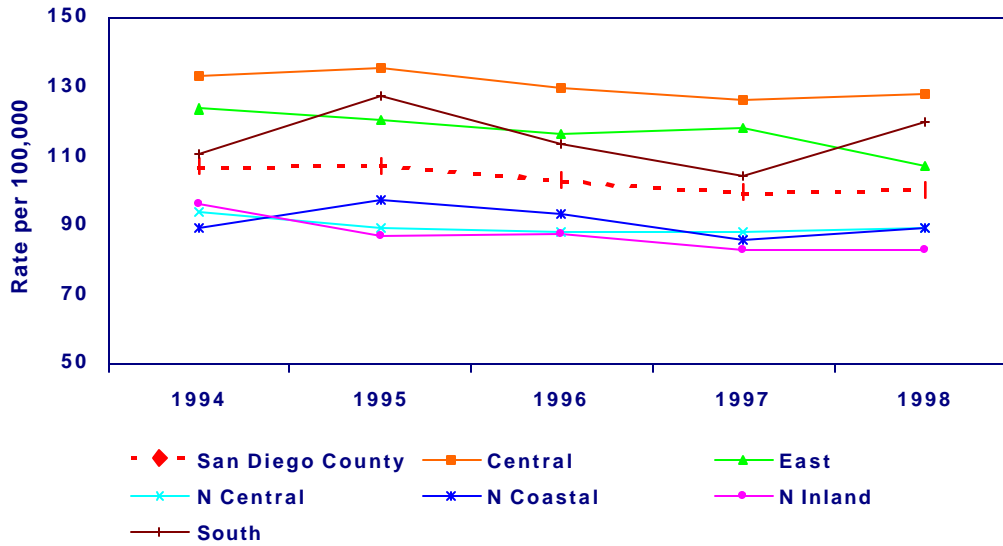
Total Deaths and Age-Specific Rates (100,000 population) by Selected Cause of Death and Region

Source: California Death Statistical Master File, 1998 & SANDAG 1998 Population Estimates (January 1, 1998)

| | San Diego County | | N. Coastal | | N. Central | | Central | | South | | East | | N. Inland | |
|----------------------------|------------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|
| | Deaths | Rate | Deaths | Rate | Deaths | Rate | Deaths | Rate | Deaths | Rate | Deaths | Rate | Deaths | Rate |
| All Cause Mortality | | | | | | | | | | | | | | |
| Under 1 | 224 | 518.7 | 46 | 623.0 | 37 | 551.5 | 43 | 514.0 | 29 | 401.3 | 34 | 533.9 | 34 | 476.9 |
| 1-4 | 42 | 22.0 | 7 | 21.7 | 2 | 6.3 | 9 | 23.3 | 6 | 20.4 | 7 | 23.6 | 11 | 37.2 |
| 5-14 | 57 | 14.0 | 5 | 7.4 | 7 | 10.8 | 13 | 17.5 | 8 | 13.2 | 12 | 17.4 | 11 | 15.5 |
| 15-24 | 254 | 63.7 | 46 | 65.1 | 37 | 51.3 | 58 | 79.3 | 29 | 48.0 | 39 | 64.7 | 42 | 67.5 |
| 25-34 | 331 | 75.0 | 39 | 54.2 | 38 | 39.6 | 86 | 110.6 | 47 | 78.3 | 63 | 90.8 | 42 | 63.3 |
| 35-44 | 714 | 155.1 | 100 | 133.0 | 119 | 120.1 | 163 | 214.0 | 106 | 185.3 | 112 | 144.0 | 90 | 120.4 |
| 45-54 | 1164 | 354.7 | 147 | 276.1 | 191 | 278.9 | 249 | 513.3 | 146 | 356.7 | 235 | 405.5 | 178 | 301.4 |
| 55-64 | 1643 | 801.9 | 206 | 639.9 | 277 | 612.4 | 291 | 1076.7 | 266 | 986.2 | 345 | 946.6 | 239 | 645.7 |
| 65-74 | 3418 | 2022.9 | 515 | 1848.4 | 612 | 1611.3 | 555 | 2595.5 | 489 | 2263.9 | 617 | 2145.5 | 613 | 1953.4 |
| 75-84 | 5948 | 5370.3 | 1027 | 5201.3 | 1182 | 5216.2 | 800 | 5418.2 | 670 | 5221.3 | 1120 | 6314.5 | 1129 | 4904.9 |
| 85+ | 4956 | 12417.6 | 824 | 11763.0 | 967 | 14396.3 | 735 | 11818.6 | 526 | 12078.1 | 862 | 13046.8 | 1029 | 11423.2 |
| Missing | 16 | NA | 0 | NA | 1 | NA | 0 | NA | 0 | NA | 0 | NA | 0 | NA |
| Total * | 18767 | 388.5 | 2962 | 347.4 | 3469 | 333.4 | 3002 | 473.6 | 2322 | 411.6 | 3446 | 432.3 | 3418 | 350.1 |

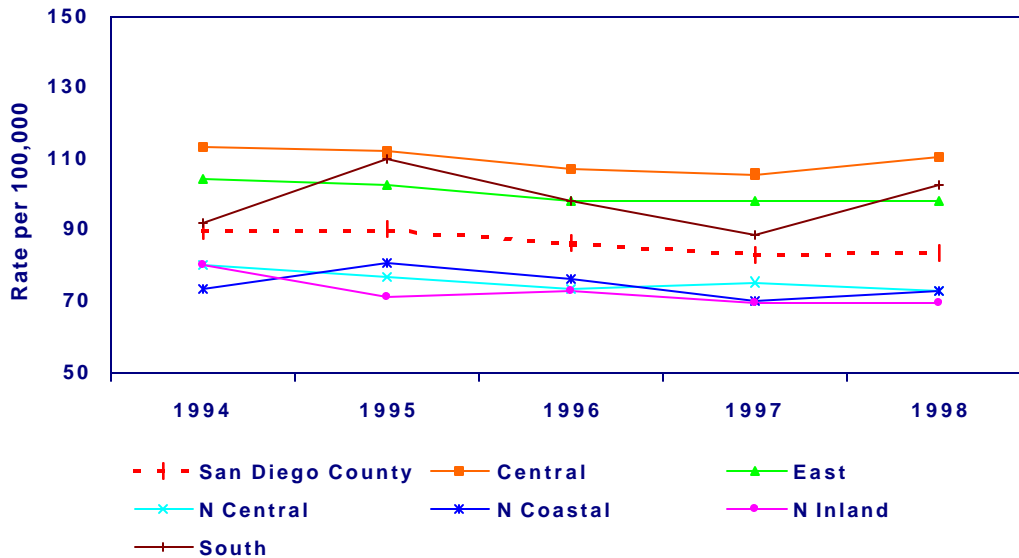
Note: While rates have been calculated for all cells, caution should be taken when interpreting rates calculated from small numbers due to the instability of resulting rates. The National Center for Health Statistics (NCHS) recommends not using rates when the frequency is less than 20.

Figure 2. Deaths Due to Heart Disease, 1994-1998
San Diego County Residents



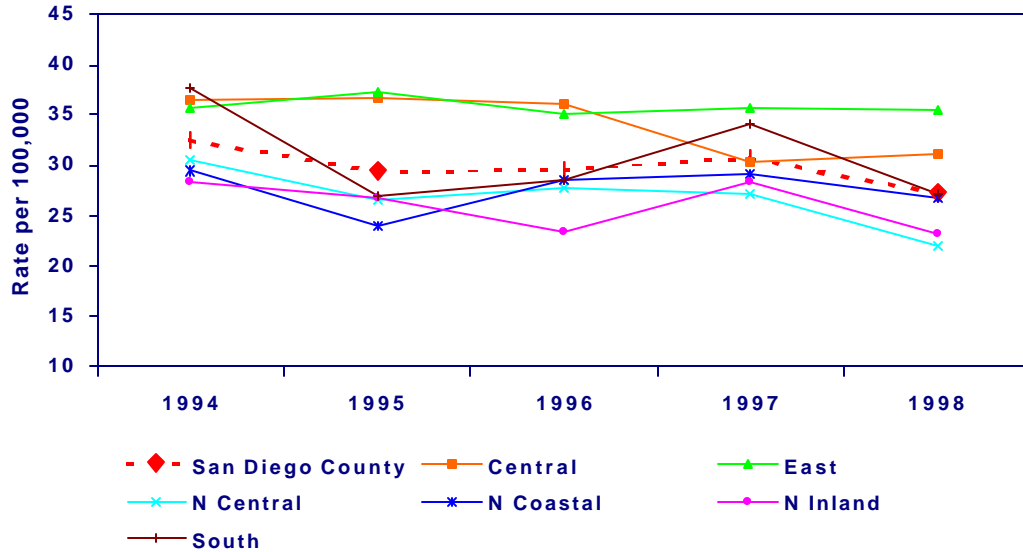
Source: California Death Statistical Master File (DSMF)
Note: Rates are per 100,000 population and are adjusted to 1940 U.S. Standard Population. Records missing zipcode, age or ICD-9 Code information are excluded.

Figure 3. Deaths Due to Coronary Heart Disease, 1994-1998
San Diego County Residents



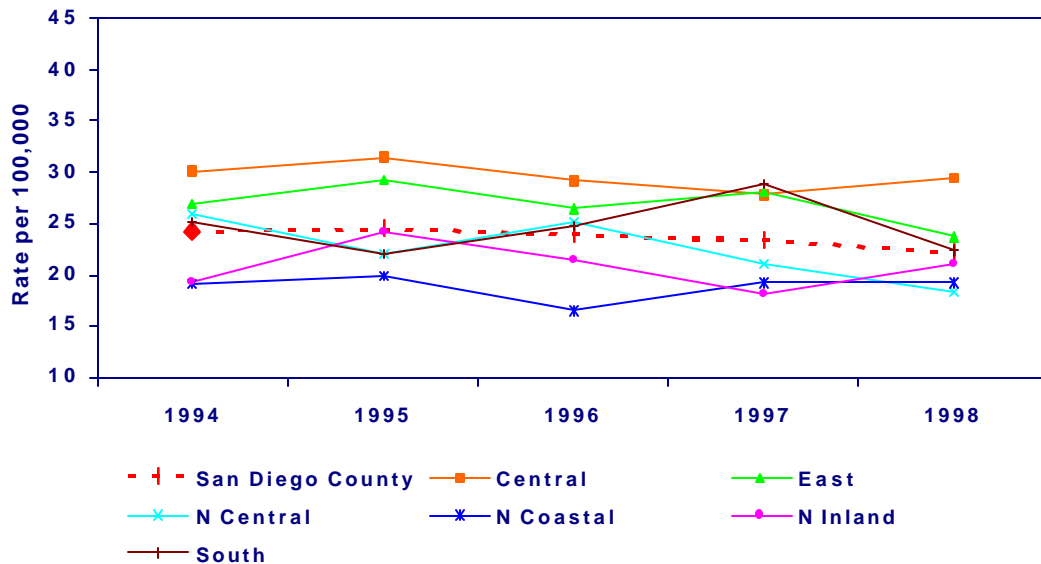
Source: California Death Statistical Master File (DSMF)
Note: Rates are per 100,000 population and are adjusted to 1940 U.S. Standard Population. Records missing zipcode, age or ICD-9 Code information are excluded.

Figure 4. Lung Cancer Deaths, 1994-1998
San Diego County Residents



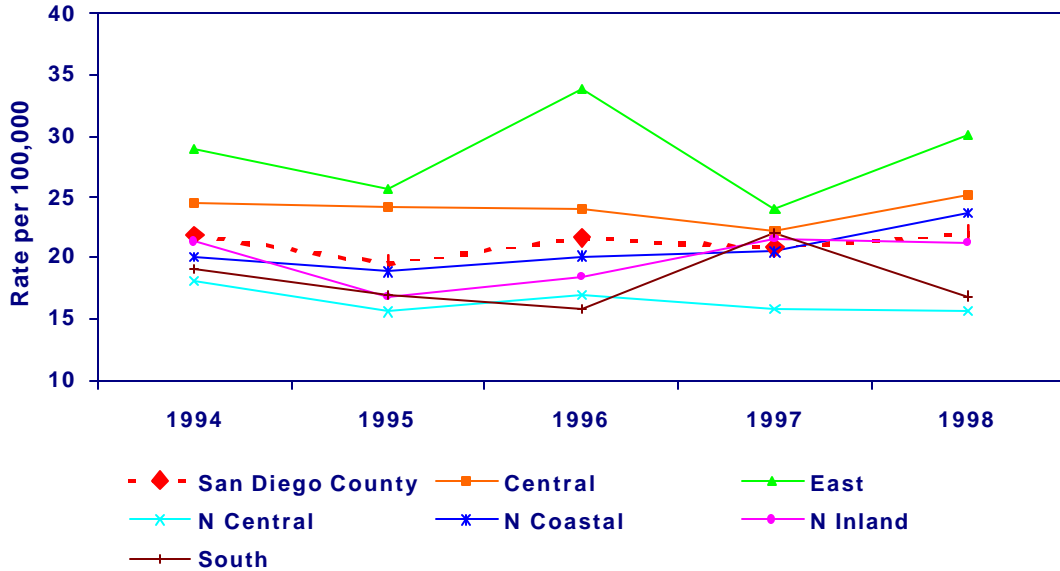
Source: California Death Statistical Master File (DSMF)
Note: Rates are per 100,000 population and are adjusted to 1940 U.S. Standard Population. Records missing zipcode, age or ICD-9 Code information are excluded.

Figure 5. Cerebrovascular Disease (Stroke) Deaths, 1994-1998
San Diego County Residents



Source: California Death Statistical Master File (DSMF)
Note: Rates are per 100,000 population and are adjusted to 1940 U.S. Standard Population. Records missing zipcode, age or ICD-9 Code information are excluded.

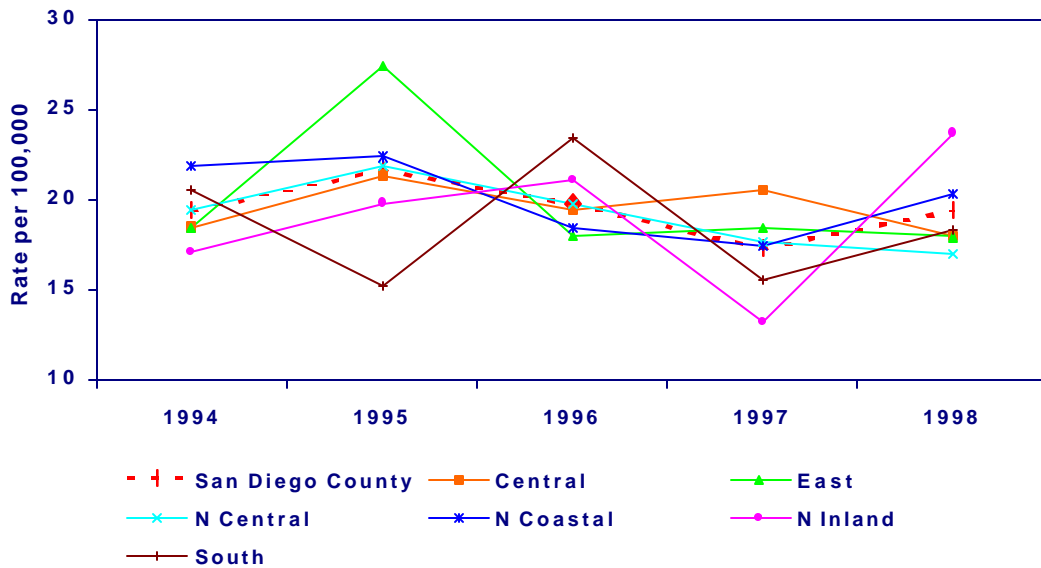
Figure 6. Chronic Obstructive Pulmonary Disease (COPD) Deaths, 1994-1998
San Diego County Residents



Source: California Death Statistical Master File (DSMF)

Note: Rates are per 100,000 population and are adjusted to 1940 U.S. Standard Population. Records missing zipcode, age or ICD-9 Code information are excluded.

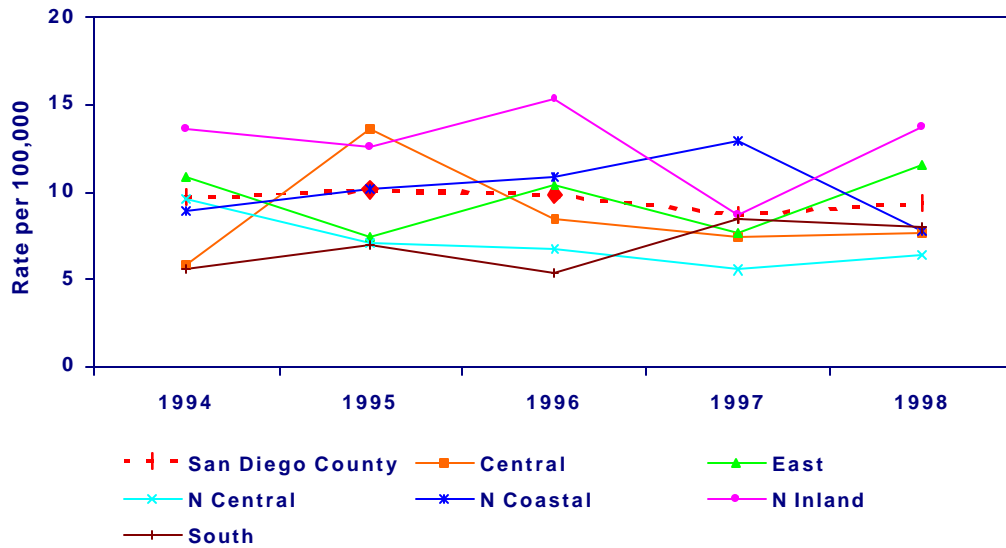
Figure 7. Female Breast Cancer Deaths, 1994-1998
San Diego County Residents



Source: California Death Statistical Master File (DSMF)

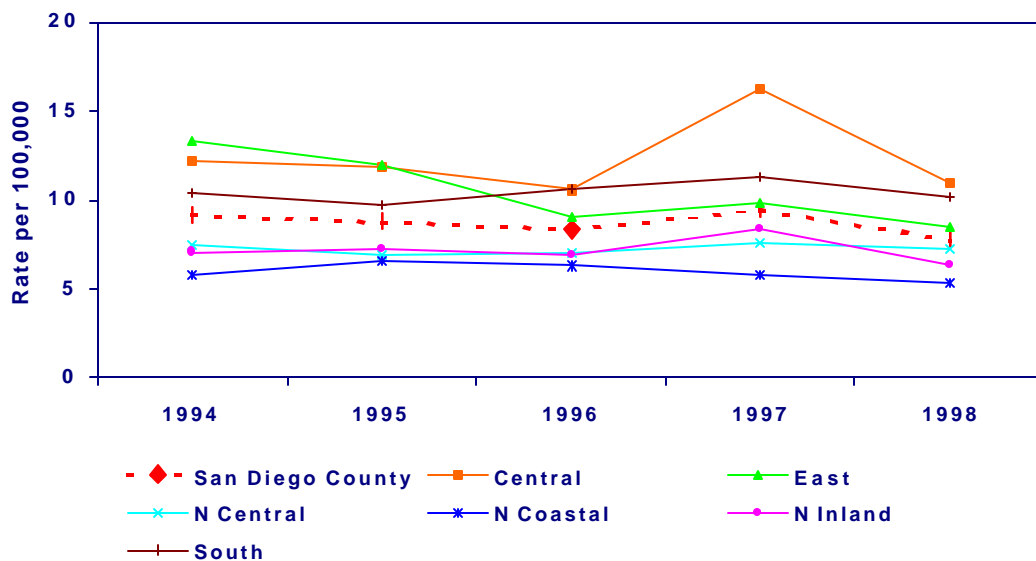
Note: Rates are per 100,000 population and are adjusted to 1940 U.S. Standard Population. Records missing zipcode, age or ICD-9 Code information are excluded.

Figure 8. Deaths Due to Motor Vehicle Crashes, 1994-1998
San Diego County Residents



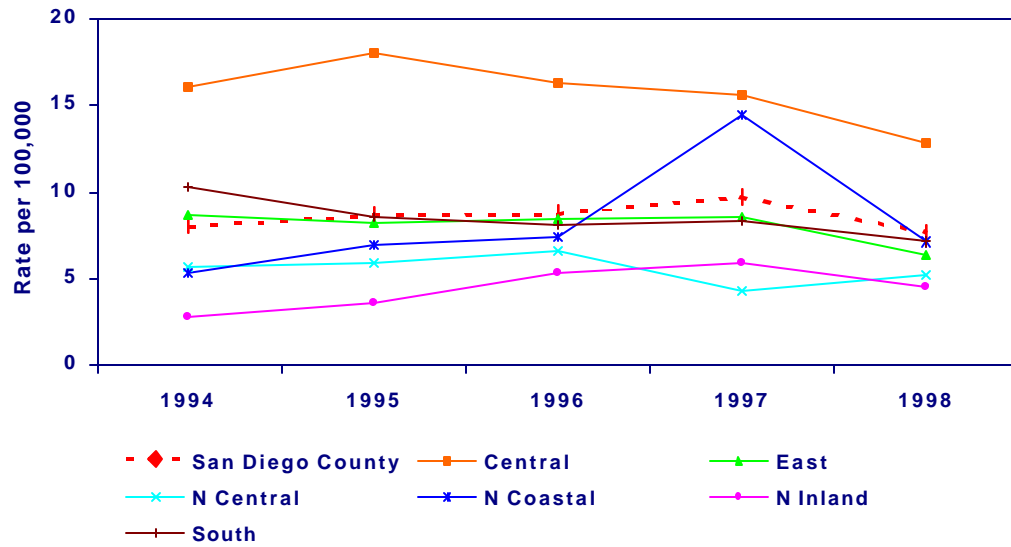
Source: California Death Statistical Master File (DSMF)
Note: Rates are per 100,000 population and are adjusted to 1940 U.S. Standard Population. Records missing zipcode, age or ICD-9 Code information are excluded.

Figure 9. Deaths Due to Diabetes, 1994-1998
San Diego County Residents



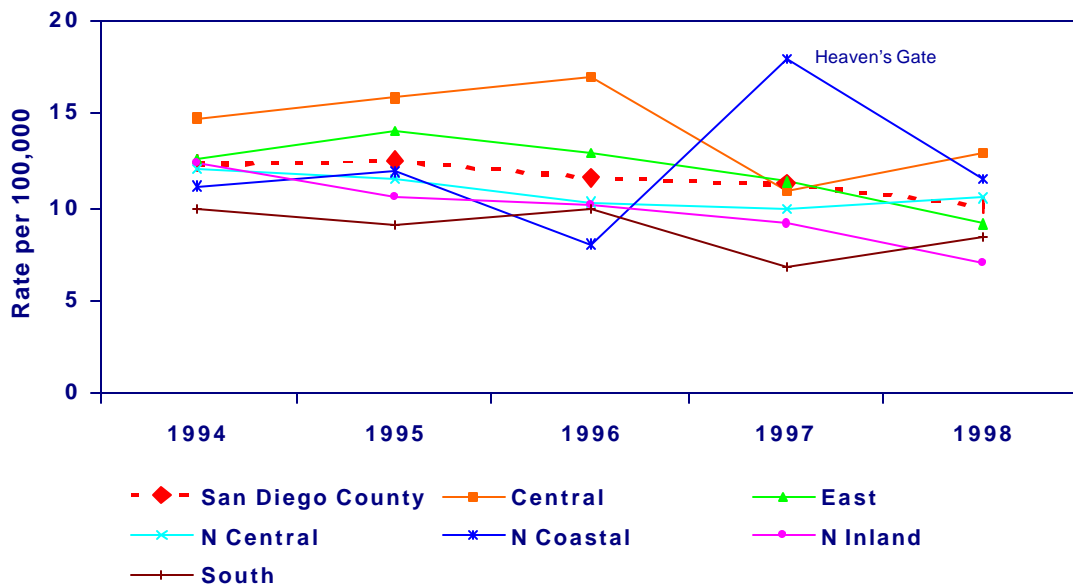
Source: California Death Statistical Master File (DSMF)
Note: Rates are per 100,000 population and are adjusted to 1940 U.S. Standard Population. Records missing zipcode, age or ICD-9 Code information are excluded.

Figure 10. Drug-induced Deaths, 1994-1998
San Diego County Residents



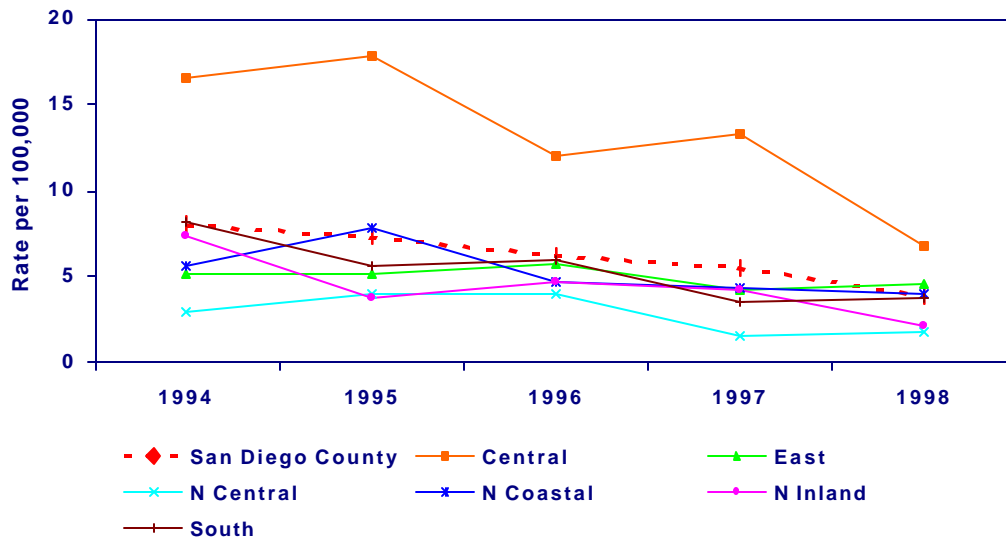
Source: California Death Statistical Master File (DSMF)
Note: Rates are per 100,000 population and are adjusted to 1940 U.S. Standard Population. Records missing zipcode, age or ICD-9 Code information are excluded.

Figure 11. Suicides, 1994-1998
San Diego County Residents



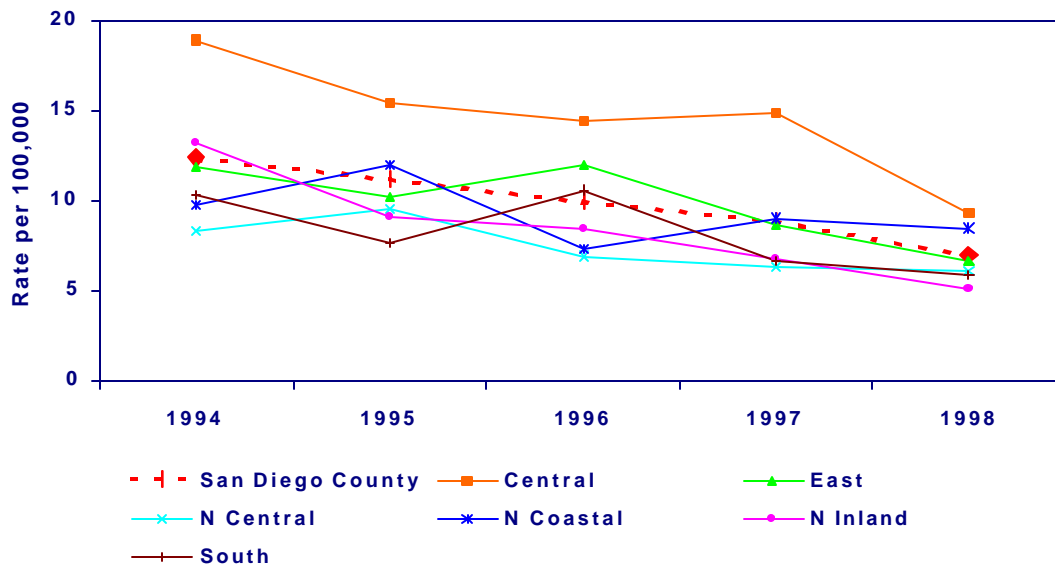
Source: California Death Statistical Master File (DSMF)
Note: Rates are per 100,000 population and are adjusted to 1940 U.S. Standard Population. Records missing zipcode, age or ICD-9 Code information are excluded.

Figure 12. Homicides, 1994-1998
San Diego County Residents



Source: California Death Statistical Master File (DSMF)
Note: Rates are per 100,000 population and are adjusted to 1940 U.S. Standard Population. Records missing zipcode, age or ICD-9 Code information are excluded.

Figure 13. Firearm-related Deaths, 1994-1998
San Diego County Residents



Source: California Death Statistical Master File (DSMF)
Note: Rates are per 100,000 population and are adjusted to 1940 U.S. Standard Population. Records missing zipcode, age or ICD-9 Code information are excluded.

DEATHS AMONG SAN DIEGO COUNTY RESIDENTS, 1994-1998

Source: California Death Statistical Master File (DSMF)

Note: Rates are per 100,000 population and are adjusted to 1940 U.S. standard population

Table 5. All Cause Mortality

| Regional Area | 1994 | | 1995 | | 1996 | | 1997 | | 1998 | |
|-------------------------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|
| | | Adjusted | | Adjusted | | Adjusted | | Adjusted | | Adjusted |
| | Deaths | Rate | Deaths | Rate | Deaths | Rate | Deaths | Rate | Deaths | Rate |
| San Diego County | 18,390 | 438.0 | 18,131 | 420.1 | 18,391 | 410.8 | 18,626 | 399.6 | 18,767 | 388.5 |
| N. Coastal | 2,687 | 366.8 | 2,785 | 368.4 | 2,872 | 371.2 | 2,924 | 366.4 | 2,962 | 347.4 |
| N. Central | 3,343 | 398.2 | 3,332 | 368.5 | 3,345 | 360.2 | 3,465 | 350.7 | 3,469 | 333.4 |
| Central | 3,417 | 586.5 | 3,279 | 565.8 | 3,149 | 530.3 | 3,003 | 487.2 | 3,002 | 473.6 |
| South | 2,237 | 442.9 | 2,149 | 414.2 | 2,193 | 405.6 | 2,342 | 420.4 | 2,322 | 411.6 |
| East | 3,383 | 463.7 | 3,345 | 457.9 | 3,356 | 448.5 | 3,468 | 440.6 | 3,446 | 432.3 |
| N. Inland | 3,175 | 376.3 | 3,086 | 355.7 | 3,311 | 359 | 3,249 | 342.8 | 3,418 | 350.1 |
| Unknown Region* | 148 | NA | 157 | NA | 165 | NA | 175 | NA | 148 | NA |

* These deaths are not assigned to a region because of missing zipcode or age information.

NA – not applicable

DEATHS AMONG SAN DIEGO COUNTY RESIDENTS, 1994-1998

Source: California Death Statistical Master File (DSMF)

Note: Rates are per 100,000 population and are adjusted to 1940 U.S. standard population

Table 6. All Cause Mortality by Region, Race/Ethnicity and Year

| Regional Area | 1994 | | 1995 | | 1996 | | 1997 | | 1998 | |
|-------------------------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|
| | Deaths | Adjusted | Deaths | Adjusted | Deaths | Adjusted | Deaths | Adjusted | Deaths | Adjusted |
| | | Rate | | Rate | | Rate | | Rate | | Rate |
| San Diego County | | | | | | | | | | |
| White | 15,139 | 449.9 | 14,877 | 430.0 | 14,933 | 418.0 | 15,127 | 406.4 | 15,243 | 396.2 |
| Black | 839 | 666.6 | 830 | 648.8 | 841 | 649.4 | 816 | 604.2 | 805 | 586.5 |
| Hispanic | 1,624 | 328.6 | 1,671 | 328.9 | 1,742 | 328.1 | 1,758 | 313.6 | 1,780 | 304.1 |
| Asian/Other | 754 | 327.0 | 694 | 283.2 | 829 | 317.0 | 886 | 321.4 | 907 | 305.0 |
| N. Coastal | | | | | | | | | | |
| White | 2,387 | 371.1 | 2,487 | 377.5 | 2,541 | 377.6 | 2,585 | 374.8 | 2,599 | 346.4 |
| Black | 42 | 386.9 | 50 | 520.6 | 49 | 499.6 | 60 | 590.3 | 50 | 382.8 |
| Hispanic | 182 | 272.9 | 204 | 302.1 | 213 | 293.7 | 194 | 237.8 | 212 | 251.5 |
| Asian/Other | 74 | 376.2 | 43 | 221.2 | 67 | 316.9 | 81 | 359.3 | 100 | 397.5 |
| N. Central | | | | | | | | | | |
| White | 2,997 | 414.1 | 2,978 | 380.0 | 2,941 | 363.9 | 3,085 | 363.2 | 3,071 | 340.8 |
| Black | 63 | 529.2 | 62 | 549.6 | 69 | 540.6 | 53 | 425.1 | 61 | 480.3 |
| Hispanic | 126 | 245.8 | 144 | 256.7 | 149 | 274.5 | 154 | 257.3 | 149 | 235.6 |
| Asian/Other | 156 | 302.1 | 146 | 254.9 | 186 | 301.2 | 171 | 254.8 | 188 | 259.5 |
| Central | | | | | | | | | | |
| White | 2,182 | 676.4 | 2,063 | 655.9 | 1,913 | 586.5 | 1,792 | 544.5 | 1,855 | 542.7 |
| Black | 575 | 742.9 | 569 | 721.5 | 551 | 701.2 | 539 | 645.9 | 485 | 580.4 |
| Hispanic | 448 | 374.6 | 426 | 345.5 | 443 | 363.4 | 421 | 318.7 | 443 | 331.6 |
| Asian/Other | 205 | 350.0 | 214 | 356.8 | 236 | 374.5 | 247 | 367.9 | 215 | 300.3 |
| South | | | | | | | | | | |
| White | 1,511 | 516.3 | 1,441 | 478.1 | 1,394 | 458.9 | 1,487 | 458.6 | 1,451 | 460.3 |
| Black | 58 | 551.7 | 58 | 511.1 | 60 | 536.6 | 58 | 502.1 | 71 | 610.0 |
| Hispanic | 512 | 352.8 | 498 | 334.4 | 566 | 354.4 | 586 | 360.8 | 595 | 351.3 |
| Asian/Other | 156 | 315.0 | 148 | 269.8 | 169 | 287.7 | 209 | 339.9 | 205 | 316.3 |
| East | | | | | | | | | | |
| White | 3,074 | 473.2 | 3,015 | 462.0 | 3,008 | 449.8 | 3,104 | 443.1 | 3,093 | 437.8 |
| Black | 75 | 766.6 | 62 | 644.3 | 80 | 814.0 | 72 | 780.9 | 96 | 881.3 |
| Hispanic | 166 | 328.9 | 205 | 395.4 | 194 | 342.0 | 209 | 354.5 | 170 | 275.5 |
| Asian/Other | 65 | 342.4 | 59 | 302.4 | 71 | 343.2 | 81 | 380.8 | 86 | 377.6 |
| N. Inland | | | | | | | | | | |
| White | 2,903 | 388.9 | 2,806 | 364.1 | 3,024 | 375.6 | 2,957 | 351.0 | 3,083 | 360.3 |
| Black | 13 | 398.2 | 19 | 799.1 | 23 | 865.9 | 22 | 877.6 | 30 | 1158.2 |
| Hispanic | 162 | 270.0 | 177 | 288.8 | 166 | 251.3 | 175 | 257.0 | 193 | 257.5 |
| Asian/Other | 96 | 303.5 | 81 | 251.7 | 97 | 277.4 | 93 | 265.9 | 110 | 268.7 |

Note: Death records with missing race, age or zipcode information are excluded

Note: While rates have been calculated for all cells, caution should be taken when interpreting rates calculated from small numbers due to the instability of resulting Rates. The National Center for Health Statistics (NCHS) recommends not using rates when the frequency is less than 20.

DEATHS AMONG SAN DIEGO COUNTY RESIDENTS, 1994-1998

Source: California Death Statistical Master File (DSMF)

Note: Rates are per 100,000 population and are adjusted to 1940 U.S. standard population

Table 7. All Cause Mortality by Region, Gender and Year

| Regional Area | 1994 | | 1995 | | 1996 | | 1997 | | 1998 | |
|-------------------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|
| | Deaths | Adjusted Rate | Deaths | Adjusted Rate | Deaths | Adjusted Rate | Deaths | Adjusted Rate | Deaths | Adjusted Rate |
| San Diego County | | | | | | | | | | |
| Male | 9645 | 555.2 | 9,351 | 525.7 | 9,319 | 507.7 | 9,351 | 487.0 | 9,406 | 473.3 |
| Female | 8728 | 332.6 | 8,744 | 324.5 | 9,048 | 324.1 | 9,259 | 322.0 | 9,345 | 313.4 |
| N. Coastal | | | | | | | | | | |
| Male | 1,353 | 435.5 | 1,440 | 456.5 | 1,485 | 460.0 | 1,513 | 448.8 | 1,463 | 413.5 |
| Female | 1,334 | 304.6 | 1,345 | 287.1 | 1,387 | 290.0 | 1,411 | 290.6 | 1,499 | 287.9 |
| N. Central | | | | | | | | | | |
| Male | 1,724 | 496.3 | 1,710 | 462.0 | 1,650 | 433.3 | 1,682 | 416.7 | 1,673 | 392.4 |
| Female | 1,619 | 310.8 | 1,622 | 286.2 | 1,695 | 295.8 | 1,783 | 293.0 | 1,796 | 281.6 |
| Central | | | | | | | | | | |
| Male | 1,985 | 817.6 | 1,827 | 754.2 | 1,710 | 696.9 | 1,578 | 626.0 | 1,599 | 619.9 |
| Female | 1,432 | 370.6 | 1,452 | 389.6 | 1,439 | 381.8 | 1,425 | 366.1 | 1,403 | 348.2 |
| South | | | | | | | | | | |
| Male | 1,198 | 557.3 | 1,148 | 532.3 | 1,156 | 517.6 | 1,194 | 513.3 | 1,218 | 522.1 |
| Female | 1,111 | 348.4 | 1,001 | 310.9 | 1,044 | 311.3 | 1,148 | 342.8 | 1,104 | 317.0 |
| East | | | | | | | | | | |
| Male | 1,260 | 433.2 | 1,380 | 464.1 | 1,440 | 477.2 | 1,678 | 529.2 | 1,665 | 513.3 |
| Female | 1,269 | 283.2 | 1,526 | 336.6 | 1,507 | 311.6 | 1,789 | 365.5 | 1,781 | 362.7 |
| N. Inland | | | | | | | | | | |
| Male | 1,641 | 462.7 | 1,524 | 418.4 | 1,588 | 417.0 | 1,600 | 406.6 | 1,690 | 412.4 |
| Female | 1,534 | 299.8 | 1,560 | 300.1 | 1,723 | 307.1 | 1,649 | 284.8 | 1,728 | 294.4 |

Note: Death records with missing gender, age or zipcode information are excluded

DEATHS AMONG SAN DIEGO COUNTY RESIDENTS, 1994-1998

Source: California Death Statistical Master File (DSMF)

Note: Rates are per 100,000 population and are adjusted to 1940 U.S. standard population

Table 8. Leading Causes of Death by Region and Year, 1994-1998

| Regional Area | 1994 | | 1995 | | 1996 | | 1997 | | 1998 | |
|-------------------------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|
| | | Adjusted | | Adjusted | | Adjusted | | Adjusted | | Adjusted |
| | Deaths | Rate | Deaths | Rate | Deaths | Rate | Deaths | Rate | Deaths | Rate |
| San Diego County | | | | | | | | | | |
| Heart Disease | 5342 | 107.0 | 5462 | 107.1 | 5409 | 102.8 | 5449 | 99.3 | 5602 | 100.3 |
| Coronary Heart Disease | 4508 | 89.9 | 4636 | 90.5 | 4562 | 86.4 | 4608 | 83.6 | 4691 | 84.0 |
| Lung Cancer | 1166 | 32.6 | 1106 | 29.5 | 1133 | 29.6 | 1200 | 30.8 | 1132 | 27.3 |
| Colorectal Cancer | 395 | 9.8 | 406 | 9.9 | 404 | 10.3 | 381 | 8.8 | 426 | 9.4 |
| Female Breast Cancer | 374 | 19.4 | 411 | 21.7 | 370 | 19.8 | 347 | 17.3 | 382 | 19.4 |
| Cerebrovascular Disease | 1339 | 24.3 | 1383 | 24.6 | 1401 | 24.0 | 1403 | 23.5 | 1351 | 22.2 |
| COPD | 988 | 21.9 | 922 | 19.6 | 1047 | 21.7 | 1020 | 20.8 | 1147 | 22.0 |
| Pneumonia/Influenza | 824 | 14.4 | 778 | 12.3 | 941 | 14.7 | 999 | 15.2 | 1051 | 15.2 |
| Diabetes | 343 | 9.2 | 370 | 8.8 | 347 | 8.3 | 403 | 9.5 | 360 | 7.8 |
| Drug-Induced | 225 | 8.0 | 242 | 8.6 | 245 | 8.7 | 281 | 9.7 | 225 | 7.6 |
| Unintentional Injuries | 615 | 21.3 | 629 | 21.7 | 684 | 22.7 | 696 | 22.6 | 698 | 21.9 |
| Motor Vehicle Accidents | 268 | 9.7 | 278 | 10.1 | 272 | 9.9 | 246 | 8.7 | 271 | 9.4 |
| Suicide | 354 | 12.4 | 358 | 12.5 | 336 | 11.6 | 341 | 11.3 | 308 | 10.1 |
| Homicide | 208 | 8.0 | 190 | 7.3 | 167 | 6.2 | 144 | 5.5 | 101 | 3.9 |
| All Firearms | 334 | 12.4 | 304 | 11.2 | 278 | 10.0 | 256 | 8.9 | 202 | 7.0 |
| N. Coastal | | | | | | | | | | |
| Heart Disease | 809 | 89.2 | 867 | 97.2 | 861 | 93.0 | 846 | 85.9 | 910 | 89.1 |
| Coronary Heart Disease | 668 | 73.6 | 712 | 81.0 | 703 | 76.4 | 698 | 70.2 | 741 | 73.0 |
| Lung Cancer | 173 | 29.5 | 162 | 24.0 | 187 | 28.5 | 191 | 29.2 | 190 | 26.8 |
| Colorectal Cancer | 63 | 9.6 | 71 | 10.0 | 68 | 10.8 | 62 | 9.2 | 65 | 7.3 |
| Female Breast Cancer | 66 | 21.9 | 66 | 22.4 | 61 | 18.4 | 58 | 17.4 | 70 | 20.3 |
| Cerebrovascular Disease | 166 | 19.1 | 180 | 19.9 | 173 | 16.5 | 204 | 19.3 | 203 | 19.3 |
| COPD | 160 | 20.0 | 166 | 18.9 | 165 | 20.1 | 179 | 20.5 | 212 | 23.6 |
| Pneumonia/Influenza | 130 | 12.8 | 104 | 9.4 | 136 | 12.4 | 146 | 13.8 | 142 | 11.8 |
| Diabetes | 34 | 5.8 | 45 | 6.5 | 48 | 6.3 | 46 | 5.8 | 40 | 5.4 |
| Drug-Induced | 23 | 5.3 | 33 | 6.9 | 33 | 7.3 | 66 | 14.4 | 35 | 7.1 |
| Unintentional Injuries | 84 | 17.8 | 97 | 19.5 | 104 | 21.2 | 131 | 26.2 | 97 | 19.7 |
| Motor Vehicle Accidents | 42 | 8.9 | 48 | 10.2 | 48 | 10.8 | 58 | 12.9 | 37 | 7.8 |
| Suicide | 50 | 11.1 | 56 | 11.9 | 40 | 8.0 | 85 | 18.0 | 59 | 11.5 |
| Homicide | 24 | 5.6 | 32 | 7.8 | 22 | 4.7 | 18 | 4.3 | 17 | 4.0 |
| All Firearms | 43 | 9.7 | 51 | 12.0 | 34 | 7.3 | 42 | 9.0 | 42 | 8.5 |

Note: records missing zipcode, age or ICD9 code information are excluded

Note: While rates have been calculated for all cells, caution should be taken when interpreting rates calculated from small numbers due to the instability of resulting Rates. The National Center for Health Statistics (NCHS) recommends not using rates when the frequency is less than 20.

DEATHS AMONG SAN DIEGO COUNTY RESIDENTS, 1994-1998

Source: California Death Statistical Master File (DSMF)

Note: Rates are per 100,000 population and are adjusted to 1940 U.S. standard population

Table 8. Leading Causes of Death by Region and Year, 1994-1998, Contd.

| Regional Area | 1994 | | 1995 | | 1996 | | 1997 | | 1998 | |
|-------------------------|-------------------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|
| | Deaths | Adjusted Rate | Deaths | Adjusted Rate | Deaths | Adjusted Rate | Deaths | Adjusted Rate | Deaths | Adjusted Rate |
| | N. Central | | | | | | | | | |
| Heart Disease | 927 | 94.0 | 943 | 89.3 | 956 | 87.8 | 1017 | 87.7 | 1054 | 89.0 |
| Coronary Heart Disease | 798 | 80.2 | 815 | 77.1 | 810 | 73.8 | 871 | 75.5 | 864 | 73.3 |
| Lung Cancer | 235 | 30.6 | 213 | 26.6 | 230 | 27.8 | 226 | 27.2 | 202 | 22.0 |
| Colorectal Cancer | 70 | 8.2 | 99 | 11.3 | 92 | 11.4 | 75 | 8.1 | 85 | 9.0 |
| Female Breast Cancer | 73 | 19.4 | 88 | 21.8 | 77 | 19.7 | 73 | 17.6 | 73 | 17.0 |
| Cerebrovascular Disease | 281 | 26.0 | 270 | 22.1 | 296 | 25.2 | 268 | 21.1 | 238 | 18.5 |
| COPD | 164 | 18.2 | 161 | 15.6 | 169 | 17.0 | 163 | 15.8 | 176 | 15.7 |
| Pneumonia/Influenza | 153 | 13.9 | 167 | 13.5 | 167 | 12.8 | 200 | 13.8 | 217 | 14.3 |
| Diabetes | 57 | 7.5 | 64 | 6.9 | 60 | 7.0 | 69 | 7.6 | 68 | 7.2 |
| Drug-Induced | 34 | 5.7 | 34 | 5.8 | 39 | 6.6 | 28 | 4.3 | 32 | 5.2 |
| Unintentional Injuries | 120 | 20.8 | 94 | 16.2 | 111 | 18.3 | 106 | 15.5 | 118 | 15.9 |
| Motor Vehicle Accidents | 52 | 9.6 | 37 | 7.1 | 37 | 6.8 | 36 | 5.5 | 41 | 6.4 |
| Suicide | 68 | 12.1 | 70 | 11.5 | 62 | 10.3 | 64 | 9.9 | 67 | 10.5 |
| Homicide | 16 | 2.9 | 22 | 4.0 | 22 | 4.0 | 8 | 1.5 | 9 | 1.8 |
| All Firearms | 45 | 8.3 | 56 | 9.6 | 40 | 6.9 | 39 | 6.3 | 38 | 6.1 |
| Central | | | | | | | | | | |
| Heart Disease | 924 | 132.7 | 951 | 135.5 | 877 | 129.5 | 885 | 126.1 | 905 | 127.7 |
| Coronary Heart Disease | 781 | 113.5 | 797 | 112.4 | 739 | 107.7 | 747 | 105.9 | 782 | 110.8 |
| Lung Cancer | 175 | 36.5 | 186 | 36.7 | 187 | 36.1 | 159 | 30.4 | 165 | 31.1 |
| Colorectal Cancer | 64 | 11.1 | 41 | 8.9 | 67 | 12.9 | 57 | 10.0 | 61 | 9.5 |
| Female Breast Cancer | 57 | 18.5 | 61 | 21.4 | 49 | 19.4 | 57 | 20.5 | 47 | 18.0 |
| Cerebrovascular Disease | 215 | 30.1 | 232 | 31.5 | 213 | 29.2 | 213 | 27.9 | 235 | 29.5 |
| COPD | 143 | 24.5 | 143 | 24.1 | 155 | 24.0 | 139 | 22.2 | 164 | 25.2 |
| Pneumonia/Influenza | 128 | 15.8 | 108 | 11.1 | 132 | 15.9 | 132 | 15.3 | 150 | 16.5 |
| Diabetes | 65 | 12.2 | 62 | 11.9 | 61 | 10.6 | 85 | 16.3 | 70 | 11.0 |
| Drug-Induced | 70 | 16.0 | 77 | 18.0 | 73 | 16.3 | 71 | 15.6 | 60 | 12.8 |
| Unintentional Injuries | 108 | 22.6 | 133 | 30.2 | 129 | 25.8 | 140 | 30.2 | 115 | 23.7 |
| Motor Vehicle Accidents | 27 | 5.8 | 59 | 13.6 | 38 | 8.4 | 34 | 7.4 | 37 | 7.6 |
| Suicide | 69 | 14.8 | 71 | 15.9 | 77 | 17.0 | 52 | 10.9 | 60 | 12.9 |
| Homicide | 77 | 16.6 | 69 | 17.8 | 54 | 12.0 | 62 | 13.3 | 30 | 6.8 |
| All Firearms | 86 | 18.9 | 71 | 15.4 | 63 | 14.4 | 68 | 14.9 | 41 | 9.3 |

Note: Records missing zipcode, age or ICD9 code information are excluded

Note: While rates have been calculated for all cells, caution should be taken when interpreting rates calculated from small numbers due to the instability of resulting rates. The National Center for Health Statistics (NCHS) recommends not using rates when the frequency is less than 20.

DEATHS AMONG SAN DIEGO COUNTY RESIDENTS, 1994-1998

Source: California Death Statistical Master File (DSMF)

Note: Rates are per 100,000 population and are adjusted to 1940 U.S. standard population

Table 8. Leading Causes of Death by Region and Year, 1994-1998, Contd.

| Regional Area | 1994 | | 1995 | | 1996 | | 1997 | | 1998 | |
|-------------------------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|
| | | Adjusted | | Adjusted | | Adjusted | | Adjusted | | Adjusted |
| | Deaths | Rate | Deaths | Rate | Deaths | Rate | Deaths | Rate | Deaths | Rate |
| N. Inland | | | | | | | | | | |
| Heart Disease | 962 | 96.0 | 911 | 86.5 | 971 | 87.2 | 922 | 83.0 | 961 | 82.6 |
| Coronary Heart Disease | 802 | 80.3 | 752 | 71.3 | 810 | 73.1 | 770 | 69.7 | 770 | 69.7 |
| Lung Cancer | 192 | 28.4 | 184 | 26.8 | 179 | 23.4 | 224 | 28.4 | 195 | 23.2 |
| Colorectal Cancer | 84 | 10.9 | 84 | 10.7 | 70 | 7.7 | 82 | 9.0 | 96 | 10.2 |
| Female Breast Cancer | 66 | 17.1 | 74 | 19.8 | 73 | 21.1 | 55 | 13.2 | 87 | 23.7 |
| Cerebrovascular Disease | 234 | 19.4 | 280 | 24.2 | 280 | 21.4 | 233 | 18.2 | 274 | 21.2 |
| COPD | 191 | 21.3 | 154 | 16.8 | 186 | 18.4 | 207 | 21.5 | 220 | 21.2 |
| Pneumonia/Influenza | 151 | 11.4 | 134 | 9.7 | 197 | 13.8 | 203 | 15.8 | 209 | 14.2 |
| Diabetes | 49 | 7.1 | 69 | 7.2 | 60 | 6.9 | 69 | 8.4 | 54 | 6.4 |
| Drug-Induced | 15 | 2.8 | 18 | 3.6 | 24 | 5.3 | 29 | 5.9 | 23 | 4.4 |
| Unintentional Injuries | 103 | 22.2 | 111 | 22.8 | 123 | 26.0 | 101 | 18.6 | 133 | 24.2 |
| Motor Vehicle Accidents | 61 | 13.6 | 57 | 12.6 | 65 | 15.3 | 39 | 8.7 | 64 | 13.7 |
| Suicide | 66 | 12.4 | 56 | 10.6 | 51 | 10.1 | 48 | 9.1 | 35 | 7.0 |
| Homicide | 29 | 7.3 | 17 | 3.7 | 19 | 4.7 | 18 | 4.2 | 9 | 2.1 |
| All Firearms | 60 | 13.2 | 45 | 9.1 | 40 | 8.4 | 35 | 6.8 | 26 | 5.1 |

Note: While rates have been calculated for all cells, caution should be taken when interpreting rates calculated from small numbers due to the instability of resulting rates. The National Center for Health Statistics (NCHS) recommends not using rates when the frequency is less than 20.

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PROGRAM CONTACTS

| Data Type/Category | Data Description | Contact Information |
|-------------------------------|---|---|
| Epidemiology Morbidity | <ul style="list-style-type: none"> Morbidity (Reportable Diseases) AVSS Reporting System Summary of Notifiable Diseases Summary of tables and statistics for the occurrence of notifiable diseases in the State of California. Tables show number of cases by year of report; graphs and maps as well as distribution of cases by geographic location, and by patients' age, gender, and race/ethnicity are available upon request | Kim Poggemeyer, M.P.H. Division of Community Epidemiology Phone #: (619) 531-4958 Fax #: (619) 515-6644 kpoggehe@co.san-diego.ca.us MS: P511C-A |
| Mortality | <ul style="list-style-type: none"> Mortality Hospitalizations/Discharge data State/P.H.I.S. Mortality Files | Jeff Johnson, M.P.H. Division of Community Epidemiology Phone #: (619) 531-4945 Fax #: (619) 515-6644 Jjohnshe@co.san-diego.ca.us MS: P511C-A |
| | Health Status Report | Louise Gresham, Ph.D., M.P.H. Division of Community Epidemiology Phone #: (619) 515-6621 Fax #: (619) 515-6644 lgreshhe@co.san-diego.ca.us MS: P511C-A |
| | Regional Health Status Profiles | Annie Kao, M.P.H., M.S. Division of Community Epidemiology Phone #: (619) 515-6603 Fax #: (619) 515-6644 akaoxhe@co.san-diego.ca.us MS: P511C-A |
| Sexually Transmitted Disease | <ul style="list-style-type: none"> STD Education and promotion Annual STD Factsheet | Felicia Noonis STD Program, Community Liason Field and Community Services Section Phone #: (619) 692-8531 Fax #: (619) 692-8541 Fnoonihe@co.san-diego.ca.us MS: P511D |
| | <ul style="list-style-type: none"> STD Youth Risk Behavior Surveillance Survey, San Diego City Schools, CDC Bi-annual Summary of STDs Gonorrhea/Chlamydia by Region 1997 and 1999 | Azi Maroufi, M.P.H. Division of Community Epidemiology / STD Program Phone #: (619) 515-6619 Fax #: (619) 515-6644 amarouhe@co.san-diego.ca.us MS: P511C-A |
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| AIDS Epidemiology | <ul style="list-style-type: none"> AIDS Epidemiology Report AIDS incidence, cumulative and by specific subpopulations, in San Diego County. Epidemiologic profile of cases are available. ARS | Michael Bursaw, M.P.H. AIDS Epidemiology Unit Phone #: (619) 515-6672 Fax #: (619) 515-6765 mbursahe@co.san-diego.ca.us MS: P511C-A |

| | | |
|--|---|--|
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| Child, Youth & Family Health Assessment and Planning | <ul style="list-style-type: none"> Causes of Infant Mortality P.H.I.S. Birth Files IMR Data Fetal deaths data Building Healthier Futures Data Supplement <p>Statistics for a wide range of child, youth and family health-related indicators such as infant mortality, teen births, prenatal care, immunizations, homicides, juvenile arrests, injury, and teen alcohol and drug use.</p> <ul style="list-style-type: none"> Birth data, rates, birth to teens, Infant Mortality rates State/ P.H.I.S. Birth Files Birthnet | Gayle White Fetal Infant Mortality Review Program Phone #: (619) 692-8667 Fax #: (619) 692-8827 MS: P511F |
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| | | |
|--|---|---|
| Emergency Medical Services | <ul style="list-style-type: none"> Injury, prehospital, medical examiner Trauma Data Summary Injury and trauma data for the county of San Diego, traffic crashes, SART QA Net, hospital bed availability | Leslie Ray, M.A., MPPA EMS Phone #: (619) 285-6593 Fax #: (619) 285-6531 lrayxxhe@co.san-diego.ca.us MS: S555 |
| Emergency Medical Services | <ul style="list-style-type: none"> Pre-hospital | Barbara Stepanski EMS Phone #: (619) 285-6429 Fax #: (619) 285-6531 bstepahe@co.san-diego.ca.us MS: S555 |
| Immunization Program / CDC | <ul style="list-style-type: none"> Immunization coverage in county, clinic, school, etc. Vaccine preventable diseases CDC Survey data and local survey data | Wendy Wang, M.P.H. Immunization program Phone #: (619) 692-5683 Fax #: (619) 692-5677 wwangxhe@co.san-diego.ca.us MS: P511B |
| Immunization Program | <ul style="list-style-type: none"> Vaccine-preventable diseases reported in San Diego County Surveillance <small>Summary of vaccine-preventable diseases in SD County</small> San Diego County's Infant Immunization Progress Report <small>Immunization coverage for 2yr olds in SD County, a progressive report</small> | Sandy Ross, R.N. Immunization program Phone #: (619) 692-8661 Fax #: (619) 692-5677 Srossxhe@co.san-diego.ca.us MS: P511B |
| Tobacco Control Resource Program | <ul style="list-style-type: none"> Operation Storefront Phases I & II: Youth Against Tobacco Advertising and Promotion, Southern Coast Region <small>Number and placement of tobacco advertisement and promotion in stores; merchant education.</small> | Carol St. Cook Director Phone #: (619) 515-6505 Cstcoohe@co.san-diego.ca.us |
| County Veterinarian | Summary of reportable animal diseases/conditions in the County of San Diego | Jesus A. Guajardo, DVM Veterinary Public Health Phone #: (858) 694-2838 Jguajaag@co.san-diego.ca.us |
| County Vector Surveillance and Control Program | Summary of Vector-borne disease surveillance data <small>Tables of locations, vectors/hosts and types of vector-borne disease confirmed by testing in San Diego County</small> | Mike Devine Phone #: (858) 694-2629 Mdevinhe@co.san-diego.ca.us |
| HHSA GIS Coordinator | <ul style="list-style-type: none"> Financial data Mapping data | Alice Weed Phone #: (619) 692-5617 aweedxhe@co.san-diego.ca.us MS: P5020 |
| Violence, Injury & Prevention | Domestic Violence Data Child Abuse | Phone #: (858) 490-1670 |