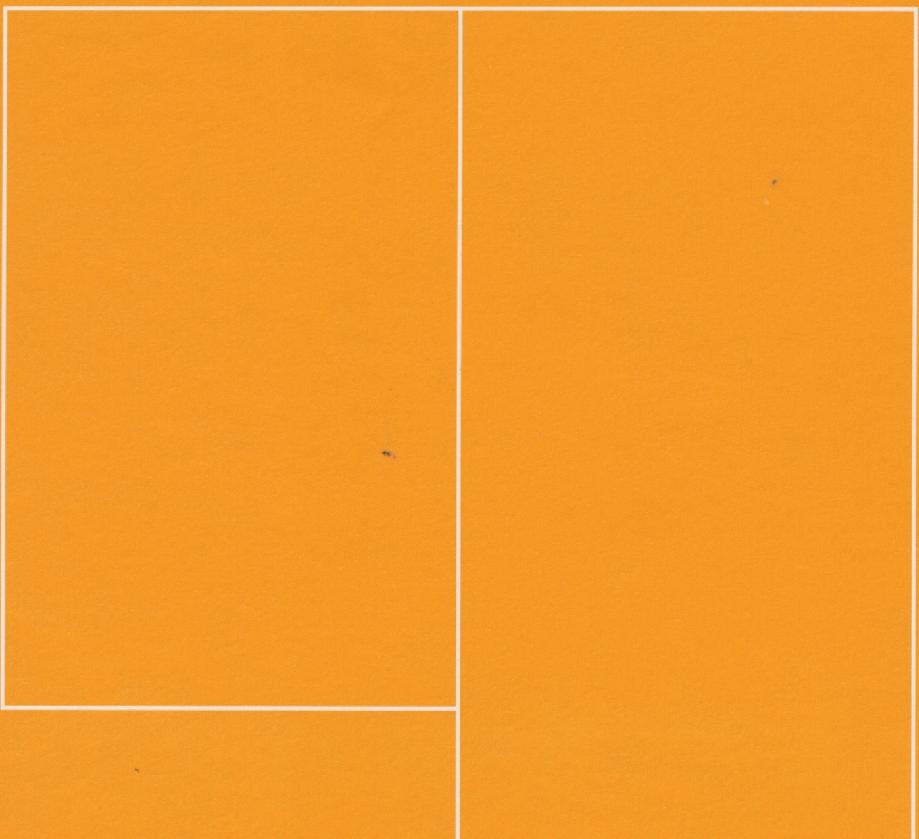


Health United States and Healthy People 2000 Review

1992



U.S. DEPARTMENT OF HEALTH
AND HUMAN SERVICES
Public Health Service



Health United States 1992 and Healthy People 2000 Review

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Preface

Health, United States, 1992 is the 17th report on the health status of the Nation submitted by the Secretary of Health and Human Services to the President and Congress of the United States in compliance with Section 308 of the Public Health Service Act. This volume also contains the 1992 *Healthy People 2000 Review*, first in a series of profiles tracking the Year 2000 objectives, submitted by the Secretary of Health and Human Services to the President and the Congress of the United States in compliance with the Health Services and Centers Amendments of 1978. These reports were compiled by the National Center for Health Statistics, Centers for Disease Control and Prevention (CDC). The National Committee on Vital and Health Statistics served in a review capacity.

Health, United States, 1992 presents national trends in public health statistics. The 145 detailed tables in this year's report are organized around four major subject areas—health status and determinants, utilization of health resources, health care resources, and health care expenditures. The detailed tables are designed to show trends in health statistics. A major criterion used in selecting the detailed tables is the availability of comparable national data over a period of several years. Similar tables appear in each volume of *Health, United States* to enhance the use of this publication as a standard reference source. Data are reported for selected years to highlight major trends. Several tables in *Health, United States, 1992* present data according to race and/or Hispanic origin consistent with department-wide emphasis on expanding racial and ethnic detail in the presentation of health data. The large differences in health status according to race and Hispanic origin that are documented in this report may be explained by several factors including socioeconomic status, health practices, psychosocial stress and resources, environmental exposures, and access to health care.

To use *Health, United States, 1992* most effectively, the reader should become familiar with the two appendices immediately following the detailed tables. Appendix I describes each data source used in this report and provides references for further information about the sources. Appendix II is an alphabetical listing of the terms used in the report. It also contains the standard populations used for age adjustment and *International Classification of Diseases* codes for cause of death and diagnostic and procedure categories.

Healthy People 2000 Review begins a series of annual profiles of the Nation's health as an integral part of the Department's disease prevention and health promotion initiative for the year 2000. *Healthy People 2000 Review* continues the work of its predecessor, *Prevention Profile*, which monitored progress toward the 1990 goals and objectives. This prevention initiative was unveiled in September 1990 by the Secretary of Health and Human Services, with the release of *Healthy People 2000: National Health Promotion and Disease Prevention*.

Objectives. In this first year, the report provides tracking data, if available, for objectives and subobjectives in all 22 priority areas. The year 2000 objectives will be tracked annually throughout the decade in this publication.

Acknowledgments

Overall responsibility for planning and coordinating the content of this volume rested with the Office of Analysis and Epidemiology, National Center for Health Statistics, under the general direction of Jacob J. Feldman.

Health, United States was prepared under the direction of Kate Prager and Diane M. Makuc. Detailed tables were prepared by Margaret A. Cooke, Virginia M. Freid, and Rebecca A. Placek, with assistance from Lois A. Fingerhut, Kenneth Schoendorf, and Diane K. Wagener. Systems design and computer programming were provided by Mitchell B. Pierre, Jr., Andrew W. Gordon, Ildy I. Shannon, and Patricia A. Knapp. Statistical assistance was provided by Mavis B. Prather and Michael K. Pisarcik. Production planning and coordination were managed by Rebecca A. Placek with typing assistance from Carole J. Hunt.

The *Healthy People 2000 Review* was prepared by Kathleen M. Turczyn, with assistance from Susan E. Schober, Fred Seitz, Susan Hawk, and Christine M. Plepys under the guidance of Richard J. Klein and Mary Anne Freedman. Cheryl V. Rose, Christine M. Plepys, Mitchell B. Pierre, Jr., Ildy I. Shannon, Patricia A. Knapp, and Jean Williams provided computer programming assistance, and Gail R. Jones and Cheryl V. Rose provided statistical and graphic assistance.

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Contents

| | |
|-----------------|-----|
| Preface | iii |
| Acknowledgments | iv |

Health, United States, 1992

| | |
|---|-----|
| Highlights | 3 |
| Geographic Regions and Divisions of the United States | 8 |
| List of Detailed Tables | 9 |
| Detailed Tables | 14 |
| Health Status and Determinants | |
| Population | 14 |
| Fertility and Natality | 17 |
| Mortality | 33 |
| Determinants and Measures of Health | 87 |
| Utilization of Health Resources | |
| Ambulatory Care | 117 |
| Inpatient Care | 122 |
| Health Care Resources | |
| Personnel | 140 |
| Facilities | 153 |
| Health Care Expenditures | |
| National Health Expenditures | 160 |
| Sources and Types of Payment | 166 |
| Health Care Coverage and Major Federal Programs | 182 |

Appendices

| | |
|------------------------------------|-----|
| Contents | 194 |
| I. Sources and Limitations of Data | 196 |
| II. Glossary | 215 |

Index to Health, United States, 1992

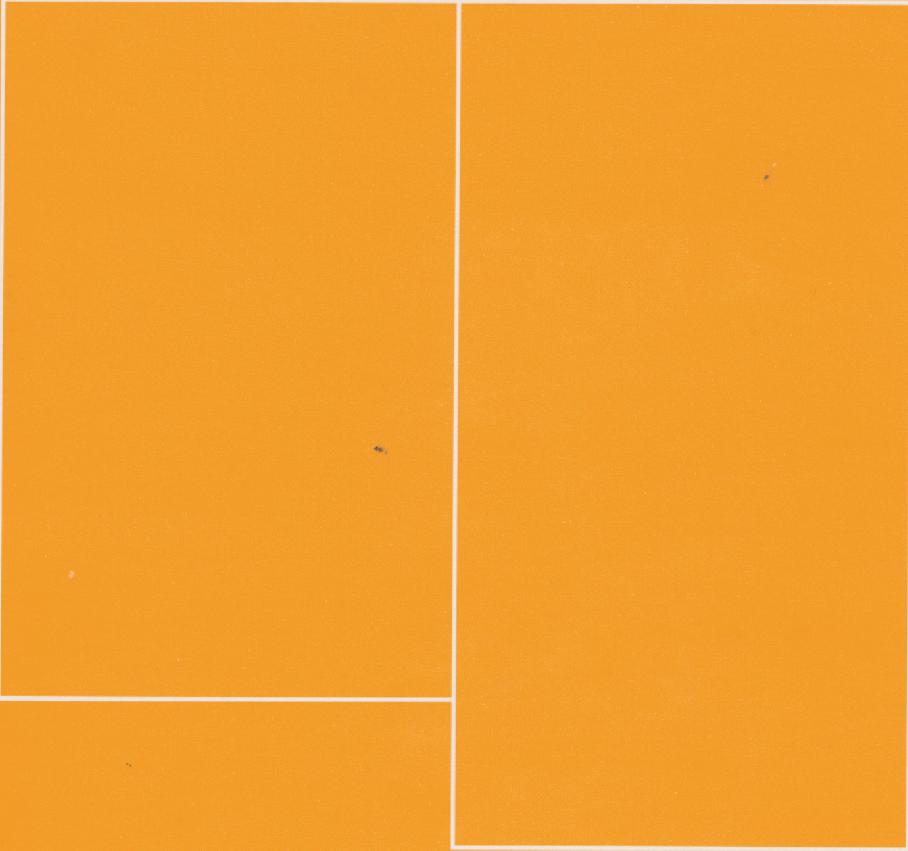
| | |
|-----------------|-----|
| Detailed Tables | 385 |
|-----------------|-----|

Symbols

| | |
|-----|---|
| --- | Data not available |
| ... | Category not applicable |
| - | Quantity zero |
| 0.0 | Quantity more than zero but less than 0.05 |
| * | Figure does not meet standard of reliability or precision |

Healthy People 2000 Review, 1992

| | |
|--|-----|
| List of Figures | 233 |
| List of Tables | 234 |
| Introduction | 235 |
| Background and Summary | 235 |
| Organization and Scope of This Review | 236 |
| Data Issues | 237 |
| Revised Baselines | 237 |
| Minority Group Subobjectives | 238 |
| Age Adjustment | 238 |
| Data Source Comparability | 239 |
| Cause-of-Death Terminology and Codes | 239 |
| Years of Healthy Life | 239 |
| Year 2000 Goals and Age-Related Objectives | 241 |
| 1. Physical Activity and Fitness | 245 |
| 2. Nutrition | 252 |
| 3. Tobacco | 260 |
| 4. Alcohol and Other Drugs | 266 |
| 5. Family Planning | 271 |
| 6. Mental Health and Mental Disorders | 275 |
| 7. Violent and Abusive Behavior | 279 |
| 8. Educational and Community-based Programs | 283 |
| 9. Unintentional Injuries | 287 |
| 10. Occupational Safety and Health | 293 |
| 11. Environmental Health | 297 |
| 12. Food and Drug Safety | 303 |
| 13. Oral Health | 306 |
| 14. Maternal and Infant Health | 313 |
| 15. Heart Disease and Stroke | 319 |
| 16. Cancer | 327 |
| 17. Diabetes and Chronic Disabling Conditions | 333 |
| 18. HIV Infection | 341 |
| 19. Sexually Transmitted Diseases | 346 |
| 20. Immunization and Infectious Diseases | 350 |
| 21. Clinical Preventive Services | 357 |
| 22. Surveillance and Data Systems | 363 |
| Information Tables | |
| A. Priority area lead agencies | 366 |
| B. Mortality objective cause-of-death categories | 367 |
| C. Data sources for Healthy People 2000 objectives and subobjectives | 370 |
| D. Health Status Indicators | 384 |



**Health
United
States
1992**

Highlights

Health, United States, 1992

Health Status and Determinants

■ Between 1980 and 1990 the **elderly population** in the United States grew more rapidly than other age groups. The population aged 85 years and over increased by 35 percent to 3 million and the population aged 75–84 years, by 30 percent to 10 million. During this period the total U.S. population increased by about 10 percent (table 1).

■ In 1990 the **fertility rate** was 70.9 live births per 1,000 women 15–44 years of age, 4 percent higher than in 1980 but 19 percent lower than in 1970. Between 1986 and 1990 the fertility rate increased at an average annual rate of 2 percent. The increase was greatest for women aged 35–44 years (7–8 percent) and for teens aged 15–17 years (5 percent) (tables 3 and 4).

■ The overall percent of live-born **infants weighing less than 2,500 grams** has remained generally stable between 1980 and 1990 at 7 percent. However, the proportion of **infants weighing less than 1,500 grams** (those at greatest risk of death and disability) increased 18 percent for infants of black mothers and 6 percent for infants of white mothers during this period. In 1990 the percent of black infants weighing less than 1,500 grams was 3 times that for white infants (2.92 compared with 0.95 percent) (table 8).

■ Between 1980 and 1990 the percent of mothers who began **prenatal care** in the first trimester of pregnancy remained stable at 76 percent. Large differences among racial and ethnic groups in use of prenatal care continued in 1990. In the United States early prenatal care was received by only 58 percent of Mexican-American and American Indian mothers and 61–64 percent of black, Central and South American, and Puerto Rican-origin mothers compared with 81–87 percent of Chinese, non-Hispanic white, Cuban, and Japanese-origin mothers (table 9).

■ Between 1980 and 1990 the percent of live births to **unmarried mothers** increased steadily from 18 to 28 percent, continuing the upward trend of the 1970's. In 1990 two-thirds of black mothers of live-born infants and more than half of Puerto Rican (56 percent) and American Indian (54 percent) mothers were unmarried compared with 5 and 10 percent of mothers of Chinese and Japanese ancestry and 17 percent of white non-Hispanic mothers (table 10).

■ Between 1989 and 1991 the **poverty rate** for female-headed households with children increased from 43 to 47 percent and the poverty rate for children increased from 19 to 21 percent. In 1991 poverty among black children (46 percent) was almost 3 times that for white children (16 percent) and poverty among Hispanic children (40 percent) was 2.5 times that for white children (table 2).

■ **Infant mortality** for the 1985–87 birth cohort was lowest among infants of Chinese-American mothers (6.0 infant deaths per 1,000 live births) and highest for

infants of American Indian and black mothers (13.3 and 18.2 infant deaths per 1,000 live births). High infant mortality for black infants was due to elevated neonatal (12.0) and postneonatal (6.2) mortality that was more than twice the neonatal and postneonatal rates for white infants (5.5 and 3.0). High infant mortality for American Indian infants was mainly due to elevated postneonatal mortality (7.2) that was 2.4 times that for white infants (table 18).

■ In 1990 the **infant mortality** rate was 9.2 deaths per 1,000 live births, a record low. Between 1980 and 1990 infant mortality decreased by 30 percent for infants of white mothers to 7.6 deaths per 1,000 live births and by 19 percent for infants of black mothers to 18.0 deaths per 1,000 live births (table 20).

■ In 1989 **infant mortality** in the United States was more than twice as high and feto-infant mortality was 64 percent higher than in Japan. Postneonatal mortality in the United States was 88 percent higher than in Finland. The feto-infant mortality rate is an alternative measure of pregnancy outcome that substantially reduces the effect of international differences in distinguishing between fetal and infant deaths (table 25).

■ In 1989 **life expectancy** at birth in the United States was shorter than in Japan by 4.4 years for males and 3.9 years for females. Life expectancy at 65 years in the United States was also shorter than in Japan by 1.3 years for men and 1.9 years for women (table 26).

■ Between 1980 and 1990 overall **life expectancy** at birth increased from 73.7 to 75.4 years, a gain of 1.7 years. However, increases in life expectancy over the decade ranged from 0.7 year for black males to 2 years for white males, thereby widening the gap in life expectancy between the black and white populations. In 1990 life expectancy for white males was 8.2 years longer than for black males (72.7 compared with 64.5 years). Life expectancy for white females was 5.8 years longer than for black females (79.4 compared with 73.6 years) (table 27).

■ **Years of potential life lost (YPLL)** per 100,000 population under 65 years of age is a measure of premature mortality. Between 1987 and 1990 the YPLL rate due to HIV infection increased by 78 percent. Increases were greatest for black females (97 percent), followed by white females (84 percent), white males (77 percent), and black males (70 percent) (table 29).

■ In 1988–90 the age-adjusted death rate for heart disease for **Asian persons in the United States** aged 45 years and over (290.1 deaths per 100,000 population) was about 25 percent lower than the rate for **Hispanics** and **American Indians**, close to half the rate for white persons, and 63 percent lower than the rate for black persons. In 1988–90 the age-adjusted death rates for cancer for American Indians, Asians, and Hispanics aged 45 years and over were similar (265.0, 271.9, and 278.3 deaths per 100,000) and were considerably lower than the rates for white persons or black persons (456.4 and 621.1 deaths per 100,000) (table 31).

■ In 1988–90 the motor vehicle crash-related death rate for **American Indian children** 1–14 years of age (10.5 deaths per 100,000 population) was about 1.5 times the rate for black, white, and **Hispanic children**, and more than twice the rate for **Asian children in the**

United States. Similarly the motor vehicle crash-related death rate for American Indian youth aged 15–24 years (56.4 deaths per 100,000) was 1.5 times the rate for white youth, 1.8 times the rate for Hispanic youth, 2.4 times the rate for black youth, and 3.2 times the rate for Asian youth aged 15–24 years (table 31).

■ In 1988–90 the suicide rate for **American Indian youth** 15–24 years of age (26.8 deaths per 100,000) was nearly twice the rate for white youth, about 3 times the rates for black and **Hispanic youth**, and 3.6 times the rate for **Asian youth in the United States**. In 1988–90 the homicide rate for young black persons 15–24 years of age (67.6 deaths per 100,000) was 2.5–3.6 times the rates for Hispanic and American Indian youth and 7.9–9.1 times the rates for white and Asian youth (table 31).

■ In 1988–90 the age-adjusted death rate for residents of **large core metropolitan** counties (569 deaths per 100,000 population) was 19 percent greater than for **large fringe metropolitan** counties (479 deaths per 100,000) and the age-adjusted death rate for residents of **rural** counties (537 deaths per 100,000) was 12 percent greater than for fringe counties. Between 1980–82 and 1988–90 the age-adjusted death rate declined by 10 percent for large fringe metropolitan counties, by 6 percent for rural counties, and by 5 percent for large core metropolitan counties (table 32).

■ **Educational attainment** is inversely associated with mortality. In 1989–90 among men and women 25–44 years of age death rates for those with less than a high school education were about 3 times those for college graduates. Among middle aged men and women 45–64 years of age death rates for those who did not complete high school were almost twice those for college graduates (table 33).

■ Between 1980 and 1990 the age-adjusted death rate for **heart disease**, the leading cause of death for men and women, declined 25 percent, continuing the downward trend of the 1970's. Since 1980 heart disease mortality declined 27 percent for white men, 23 percent for white women, and 16 percent for black men and black women. In 1990 heart disease mortality was almost twice as great for white men as for white women and more than 60 percent greater for black men than for black women (table 35).

■ Between 1980 and 1990 the age-adjusted death rate for **stroke**, the third leading cause of death, declined by 32 percent, continuing the downward trend of the 1970's. Declines in stroke mortality since 1980 ranged from 28 percent for black males to 34 percent for white males. In 1990 the age-adjusted death rate for stroke was twice as great for black men as for white men and almost 80 percent greater for black women as for white women (table 36).

■ Between 1980 and 1990 the age-adjusted death rate for **lung cancer** increased by 41–46 percent for black women and white women, 11 percent for black men, and remained stable for white men. In 1990 lung cancer death rates for black men and white men (91.0 and 59.0 deaths per 100,000 population) were 2–3 times those for black women and white women (27.5 and 26.5 deaths per 100,000) (table 38).

■ In 1990 the age-adjusted death rate for **human immunodeficiency virus (HIV) infection** increased by 13

percent, a smaller increase than in 1989 (30 percent) and in 1988 (22 percent). In 1990 the age-adjusted HIV infection death rate for black men was almost 3 times that for white men (44.2 and 15.0 deaths per 100,000 population) and the HIV death rate for black women was 9 times that for white women (9.9 and 1.1 deaths per 100,000). Provisional data indicate that HIV infection was the ninth leading cause of death in 1991 (tables 40 and 49).

■ Between 1985 and 1990 the age-adjusted **homicide** rate increased 23 percent to 10.2 deaths per 100,000 population after having declined by a similar amount in the first half of the decade. The largest increases since 1985 were for black males and white males 15–24 years of age with homicide rates rising 110 percent and 40 percent. In 1990 the homicide rate for these young black males was 9 times the rate for white males (138.3 compared with 15.4 deaths per 100,000) (table 43).

■ Between 1980 and 1990 **suicide** rates increased 32–33 percent for elderly white men 75 years and over to 60–70 deaths per 100,000 population. In 1990 suicide rates for white men 75 years and over were 9 times those for white women (table 44).

■ Between 1985 and 1990 the age-adjusted death rate for **firearm injuries** increased 14 percent to 14.6 deaths per 100,000 population following a decline of similar magnitude during the previous 5-year period. The firearm death rate for those 15–24 years of age increased more than for any other age group, 50 percent from 1985 to 1990. The 1990 firearm death rate for black males aged 15–24 years was almost 5 times the rate for young white males (138.0 compared with 29.5 per 100,000 population). For these young persons homicide by firearm was the leading cause of firearm death (exceeding firearm deaths from suicide and unintentional injuries). At ages 75–84 years, however, the firearm death rate for white males was more than twice that for black males (49.8 compared with 22.4 deaths per 100,000). Between 1985 and 1990 the increase in the firearm death rate among elderly white males was due to an increase in suicide by firearm (table 45).

■ Between 1980 and 1989 the **death rate for occupational injuries** decreased at an average annual rate of 5 percent with declines occurring in all industries. Between 1983 and 1990 the **lost workday rate for occupational injuries** increased at an average annual rate of almost 5 percent following a period of decline. During the 1980's the same industries had the highest death rates and the highest lost workday rates for occupational injuries: mining; construction; transportation, communication, and public utilities; and agriculture, fishing, and forestry (tables 47 and 75).

■ In 1991 **vaccination levels** for children 1 to 4 years of age were 78 percent for MMR (measles-mumps-rubella), 66 percent for DTP (diphtheria-tetanus-pertussis), and 51 percent for polio. The proportion of children immunized for DTP and polio was 25 percent greater for white children than for those of other races whereas the proportion of children immunized for MMR did not vary by race (table 51).

■ Between 1988 and 1991 the number of reported **tuberculosis** cases increased 17 percent, to 26,000 cases. In 1991 the number of reported **measles** cases decreased

65 percent to 9,000 cases following a sharp increase in measles between 1988 and 1990 (table 52).

■ In 1992 the number of **AIDS cases** per 100,000 population among black non-Hispanic men (115.3) was more than 4 times that for white non-Hispanic men (27.5) and the risk of AIDS among Hispanic men (63.0) was more than twice that for white non-Hispanic men. The risk of AIDS among black non-Hispanic women (27.8) was more than 15 times that for white non-Hispanic women (1.8) and the risk of AIDS among Hispanic women (12.2) was nearly 7 times that for white non-Hispanic women (table 53).

■ In 1991, 44 percent of noninstitutionalized persons 75 years of age and over reported some **limitation of activity due to chronic conditions** with 18 percent limited outside their major activity, 15 percent limited in the amount or kind of their major activity, and 11 percent unable to carry on their major activity. These percents have remained stable over the 5-year period 1986–91 (table 61).

■ In 1991 the health status of black Americans continued to lag behind that of white Americans. The age-adjusted proportion reporting **fair or poor health** was 76 percent greater for black persons than for white persons (15.1 compared with 8.6 percent). The age-adjusted proportion **unable to carry on their major activity** due to chronic conditions was 66 percent greater for black persons than for white persons (6.3 compared with 3.8 percent) (tables 61 and 63).

■ In 1991 the age-adjusted prevalence of **current cigarette smoking** among persons 25 years of age and over ranged from 14 percent for college graduates to 37 percent for persons with less than a high school education. Between 1985 and 1991 the prevalence of current smoking declined by 25 percent for college graduates while declining by 7–9 percent for those with 12 or fewer years of education (table 65).

■ Between 1980 and 1991 the percent of **high school seniors who used cocaine** in the past month dropped from 5 to 1 percent; the percent who used **marijuana** in the past month dropped from 34 to 14 percent; and the percent who used **alcohol** in the past month dropped from 72 to 54 percent. During this period the percent of high school seniors who **smoked cigarettes** in the past month remained stable at 31–32 percent for white seniors while dropping from 25 to 9 percent for black high school seniors (table 67).

■ In 1991 the number of **cocaine-related emergency room episodes** increased by 28 percent following a decline of similar magnitude in 1990. Increases in 1991 occurred among Hispanic, black non-Hispanic, and white non-Hispanic males and females. In 1991 black non-Hispanic persons accounted for more than half of cocaine-related emergency room episodes (table 68).

■ In 1990, 72 percent of men and 51 percent of women were current drinkers of **alcohol**, down 5 percentage points for both groups since 1985. Between 1985 and 1990 the percent of current drinkers who consumed alcohol at heavier levels declined from 17 to 14 percent for men and from 5 to 3 percent for women (table 69).

■ Between 1960–62 and 1988–91 the age-adjusted mean **serum total cholesterol level** for adults ages 20–74

years declined from 220 mg/dL to 205 mg/dL. During the same time period the percent of adults ages 20–74 years with high serum total cholesterol levels (greater than or equal to 240 mg/dL) declined from 32 percent to 20 percent (table 72).

Utilization of Health Resources

■ In 1991, 89 percent of both white and black Americans had a physician contact within the past 2 years. However, the age-adjusted average annual number of **ambulatory physician contacts** was lower for black persons than for white persons (5.2 compared with 5.8 contacts) and **inpatient hospital days of care** per 1,000 population was 35 percent greater for black persons than for white persons (tables 78, 79, and 83).

■ In 1990 among children under 15 years of age, 80 percent of visits to **office-based physicians** were to pediatricians or general and family practitioners. Half of all office visits among elderly persons 65 years of age and over were to internists or general and family practitioners (table 80).

■ Between 1988 and 1991 the age-adjusted **discharge rate from nonfederal short-stay hospitals** declined by 4 percent. The average length of stay remained stable at 6.3 days (table 84).

■ Between 1988 and 1991 the short-stay **hospital discharge rate for HIV infection** increased by 69 percent. In 1991 men 20 to 49 years of age accounted for 67 percent of all HIV discharges, down from 77 percent in 1988; and women 20 to 49 years of age accounted for 20 percent of all HIV discharges, up from 14 percent in 1988 (table 85).

■ After a 38 percent increase in the proportion of deliveries by **cesarean section** between 1980 and 1985, the cesarean section rate has remained stable at about 24 percent through 1991 (table 88).

■ Between 1985 and 1991 the number of **inpatient admissions** to short-stay hospitals decreased by 8 percent to 32.6 million in 1991. During the same time period **outpatient visits** in short-stay hospitals grew by 38 percent to 376 million in 1991 (table 90).

■ In 1991, 52 percent of all surgery performed in short-stay hospitals was on an outpatient basis, 3 times the level of **outpatient surgery** performed in 1980 (table 90).

Health Care Resources

■ Between 1990 and 1991 **employment in the health services industry** increased by 4 percent to 9.8 million workers, while total civilian employment decreased by 0.9 percent. In 1991, 49 percent of all health workers were employed in hospitals, 17 percent in nursing homes, and 12 percent in physicians' offices (table 97).

■ Between 1985 and 1990 the number of active nonfederal **patient care physicians** grew by 8 percent to 19.5 per 10,000 civilian population. In 1990 the patient care physician to population ratio was lowest in Idaho, Mississippi, Wyoming, and South Dakota (12.0 to 13.2 per 10,000 population) and highest in New York, Maryland, and Massachusetts (27.6 to 28.6 per 10,000 population) (table 98).

- In 1990 the **medical specialties** of general/family practice and internal medicine each accounted for 16 percent of all active nonfederal office-based physicians; and pediatricians, general surgeons, and obstetrician/gynecologists each accounted for 7 percent of the total. Between 1985 and 1990 the numbers of general/family practitioners, obstetrician/gynecologists, and internists each increased by 7–10 percent, while pediatricians increased by 18 percent, and general surgeons decreased by 1 percent (table 100).
- Between 1986 and 1990 the number of full-time equivalent (FTE) **employees in community hospitals** increased by 13 percent to 3.4 million with nursing personnel comprising 36 percent of the total. Between 1986 and 1990 FTE's for ancillary nursing staff increased by 18 percent, registered nurses increased by 10 percent, and licensed practical nurses decreased by 4 percent (table 102).
- After a 25 percent decline between 1985 and 1989, the number of **registered nurse (RN) graduates** increased by 17 percent between 1989 and 1991. In 1991, 27 percent of RN graduates received baccalaureate degrees, 65 percent received associate degrees, and 9 percent were graduates of diploma programs (table 104).
- Between 1980–81 and 1990–91 **dental school enrollment** declined by almost one-third to 16,000 students. During this period minority enrollment increased from 12 to 29 percent of dental students, primarily due to a 2.4-fold increase in the number of Asian dental students. In 1990–91, 16 percent of dental students were Asian, 7 percent were Hispanic, and 6 percent were black (table 105).
- Between 1980–81 and 1990–91 the proportion of **female medical students** increased from 27 to 37 percent. In 1990–91, the proportion of female medical students varied by race and ethnicity with 56 percent female among black medical students, 38–39 percent among Asian and Hispanic medical students, and 35 percent among white medical students (table 106).
- Between 1980 and 1991 the total number of short-stay **hospital beds** in the United States declined by 7 percent with beds in State and local government hospitals experiencing the largest decline (20 percent). Between 1980 and 1986 beds in proprietary hospitals grew by 23 percent followed by a 7 percent decline from 1986 to 1991 (table 107).
- In 1990 there were 3.8 community **hospital beds** per 1,000 civilian population in the United States, a 16 percent decline since 1980. Between 1980 and 1985 **occupancy rates** in community hospitals fell 13 percent and then rose slightly to 67 percent in 1990. Between 1980 and 1990 the number of full-time equivalent **employees** per 100 average daily patients in community hospitals grew by 43 percent to 563 (tables 110–112).
- Community hospital resources and utilization vary substantially among the States. In 1990 the number of community **hospital beds** per 1,000 population ranged from 2.3 in Alaska to 7.0 in North Dakota. Community hospital **occupancy rates** ranged from 50 percent in Alaska to 86 percent in New York (tables 110 and 111).

Health Care Expenditures

- In 1991 **national health care expenditures** in the United States totaled \$752 billion, an average of \$2,868 per person. Health expenditures comprised 13.2 percent of the gross domestic product (GDP) in 1991, up from 12.2 percent in 1990. GDP increased by 2.8 percent in 1991 and national health expenditures by 11.4 percent; total federal expenditures increased by 4.6 percent and federal health expenditures by 14.6 percent; State and local expenditures increased by 8.8 percent and State and local health expenditures by 18.3 percent (table 114).
- In 1991 health spending in the United States accounted for a larger **share of gross domestic product (GDP)** than in any other major industrialized country and the gap has continued to widen since 1985. The United States devoted 13.2 percent of GDP to health in 1991, up from 12.2 percent in 1990 and 10.5 percent in 1985. Canada, the country with the second highest health share of GDP in 1991, devoted 10 percent of GDP to health (table 115).
- In 1991 rising prices explained the largest portion (54 percent) of growth in **personal health care expenditures**. Nine percent of the growth was attributed to population increase and 37 percent to changes in the use or kinds of services and supplies (table 117).
- In 1991 the rate of increase in the medical care component of the **Consumer Price Index (CPI)** was 8.7 percent, more than twice the overall inflation rate of 4.2 percent. In 1992 the medical care component of the CPI increased by 7.4 percent, nearly 2.5 times the overall inflation rate of 3.0 percent. Hospital services increases, 10.2 percent in 1991 and 9.1 percent in 1992, outraced other items in the medical care component of the CPI (tables 118 and 119).
- **Expenses in nonfederal short-stay hospitals** increased at an average annual rate of 10.2 percent from 1987 to 1991, following a period of slower growth from 1983 to 1987 (averaging 7 percent annually). In 1991 employee costs accounted for 53.8 percent of total hospital costs. Personnel per 100 patients continued its gradual rise to 427 in 1991 (table 120).
- In 1991, 22 percent of **personal health expenditures** were paid out-of-pocket; health insurance paid 32 percent; and the federal government paid 31 percent. In 1965 when Medicare and Medicaid were introduced, 53 percent of personal health care expenditures were paid out-of-pocket; private health insurance paid 24 percent; and the federal government paid 8 percent. The State and local governments' share of personal health care expenditures was 12 percent in both 1965 and 1991 (table 123).
- In 1991 the major **sources of funds** for hospital care were the government (56 percent) and private health insurance (35 percent). Medicare provided a quarter of the total funds for hospital care. In contrast, in 1991 nursing home care was financed primarily by Medicaid (47 percent) and out-of-pocket payments (43 percent).

Physician services were funded by private health insurance (47 percent), Medicare (23 percent), and out-of-pocket payments (18 percent) (table 125).

■ Between 1980 and 1991 funding for **health research and development** has increased at an average annual rate of 11.2 percent in the United States with funding by industry (including drug research) increasing by 15.5 percent per year and funding by the federal government increasing by 7.7 percent per year. Industry's share of health research and development funding grew from 31 percent in 1980 to 47 percent in 1991 while the federal government's share has declined from 59 to 42 percent (table 128).

■ Between 1980 and 1991 the share of **federal funding for health research and development** contributed by the Department of Health and Human Services increased steadily from 78 to 86 percent. The share contributed by the National Institutes of Health rose from 67 percent in 1980 to nearly 75 percent in 1988, and then declined to 72 percent of the total in 1991 (table 129).

■ Expenditures for **human immunodeficiency virus (HIV)**-related activities by the federal government increased 22 percent between 1990 and 1991 to \$3.65 billion. Of the total in 1991, 43 percent was for medical care, 35 percent for research, 14 percent for education and prevention, and 8 percent for cash assistance (Disability Insurance and Supplemental Security Income). Between 1990 and 1991 expenditures for medical care grew by 39 percent, cash assistance by 36 percent, research by 10 percent, and education and prevention by 7 percent (table 130).

■ Enrollment in **health maintenance organizations (HMO's)** increased from 34 to 36 million persons between 1991 and 1992. In 1992 about one quarter of the population was enrolled in an HMO in the West compared with 8 percent in the South (table 137).

■ In 1991 the **Medicare** program had nearly 35 million enrollees and expenditures totaling \$121.3 billion. Between 1990 and 1991 Medicare expenditures under Hospital Insurance (HI) rose 8 percent to \$72.6 billion, with the largest increases occurring for home health agencies (46 percent) and hospices (40 percent). Expenditures under Supplementary Medical Insurance (SMI) rose 11 percent to \$48.8 billion with the largest increase occurring for group practice prepayment (25 percent) (table 138).

■ Of the nearly 31 million **Medicare** enrollees age 65 years and over in 1990 almost 11 percent were 85 years and over, up from 7 percent in 1967. Medicare payments rise with age of enrollee; in 1990 average payment per enrollee for those aged 85 years and over (\$3,962) was more than double that for those aged 65–66 years (\$1,854) (table 139).

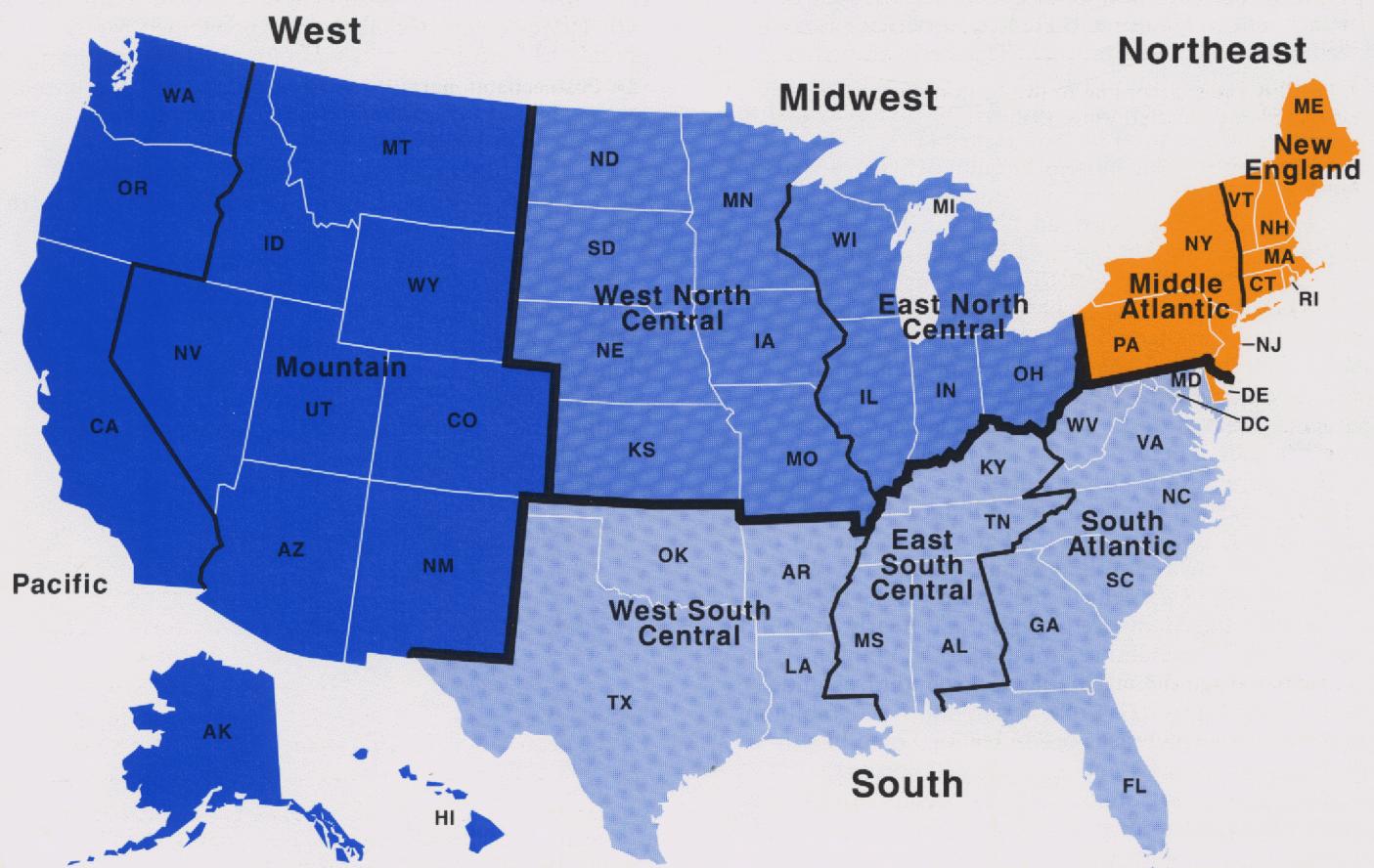
■ In 1991 **Medicaid** payments totaled \$77 billion for 28.3 million recipients. Children in families receiving Aid to Families with Dependent Children (AFDC) comprised 46 percent of Medicaid recipients but accounted for only 15 percent of expenditures. The aged, blind, and disabled accounted for 26 percent of recipients and 70 percent of expenditures. Average payment per recipient ranged from \$892 for children in AFDC families to \$7,577 for the aged (table 141).

■ In 1991 more than one quarter of **Medicaid** payments went to nursing facilities, another quarter to general hospitals, and 10 percent to intermediate care facilities for the mentally retarded. Early and periodic screening, rural health clinics, and family planning services combined received 1 percent of Medicaid funds. Payments per recipient ranged from \$81 for early and periodic screening for children to \$52,750 for intermediate care facility services for the mentally retarded (table 142).

■ Between 1990 and 1991 spending on health care by the **Department of Veterans Affairs** increased by 8 percent to \$12.4 billion. In 1991, 57 percent of the total was for inpatient hospital care, 26 percent for outpatient care, and 10 percent for nursing home care. Veterans with service connected disabilities accounted for 39 percent of both inpatients and outpatients. Low income veterans with no service connected disability accounted for 55 percent of inpatients and 42 percent of outpatients (table 143).

■ In 1990 **State mental health agency per capita expenditures** averaged \$48 and ranged from \$17 in Iowa and \$20 in Idaho to \$84 in Massachusetts and \$118 in New York. States with the greatest average annual percent increases in per capita expenditures during 1981–90 were Arizona, Maine, and Massachusetts (11.4 to 11.7 percent). States with the smallest changes were Montana, New Mexico, and North Dakota (−0.3 to 1.5 percent). The average annual increase in State mental health agency expenditures among all States during 1981–90 was 6.7 percent (table 145).

Geographic Regions and Divisions of the United States



List of Detailed Tables

Population

1. Resident population, according to age, sex, detailed race, and Hispanic origin: United States, selected years 1950–90_____

2. Persons and families below poverty level, according to selected characteristics, race, and Hispanic origin: United States, selected years 1973–91_____

Fertility and Natality

3. Live births, crude birth rates, and birth rates by age of mother, according to race: United States, selected years 1950–91_____

4. Fertility rates, according to live-birth order and race: United States, selected years 1950–91_____

5. Completed fertility rates and parity distribution for women 50–54 years of age at the beginning of selected years 1930–91, according to race of child and birth cohort: United States, selected birth cohorts 1876–80 to 1937–41_____

6. Lifetime births expected by currently married women and percent of expected births already born, according to age and race: United States, selected years 1967–90_____

7. Live births, according to detailed race of mother and Hispanic origin of mother: United States, selected years 1970–90_____

8. Low-birth-weight live births, according to detailed race of mother and Hispanic origin of mother: United States, selected years 1970–90_____

9. Prenatal care and maternal education for live births, according to detailed race of mother and Hispanic origin of mother: United States, selected years 1970–90_____

10. Maternal age and marital status for live births, according to detailed race of mother and Hispanic origin of mother: United States, selected years 1970–90_____

11. Low-birth-weight live births, according to race of mother, geographic division, and State: United States, average annual 1978–80, 1983–85, and 1988–90_____

12. Very low-birth-weight live births, according to race of mother, geographic division, and State: United States, average annual 1978–80, 1983–85, and 1988–90_____

13. Legal abortion ratios, according to selected patient characteristics: United States, selected years 1973–90_____

14. Legal abortions, according to selected characteristics: United States, selected years 1973–90_____

15. Legal abortions, abortion-related deaths, and abortion-related death rates, according to period of gestation: United States, 1973–75, 1976–78, 1979–81, 1982–84, and 1985–87_____

16. Methods of contraception for ever-married women 15–44 years of age, according to race and age: United States, 1973, 1982, and 1988_____

17. Methods of contraception for women 15–44 years of age, according to race and marital status: United States, 1982 and 1988_____

Mortality

| | |
|--|----|
| 18. Infant, neonatal, and postneonatal mortality rates, according to detailed race of mother and Hispanic origin of mother: United States, 1960 and 1983–87 birth cohorts_____ | 33 |
| 19. Infant mortality rates, according to birth weight, detailed race of mother, and Hispanic origin of mother: United States, 1960 and 1983–87 birth cohorts_____ | 34 |
| 20. Infant mortality rates, fetal death rates, and perinatal mortality rates, according to race: United States, selected years 1950–91_____ | 35 |
| 21. Infant mortality rates, according to race, geographic division, and State: United States, average annual 1978–80, 1983–85, and 1988–90_____ | 37 |
| 22. Neonatal mortality rates, according to race, geographic division, and State: United States, average annual 1978–80, 1983–85, and 1988–90_____ | 38 |
| 23. Postneonatal mortality rates, according to race, geographic division, and State: United States, average annual 1978–80, 1983–85, and 1988–90_____ | 39 |
| 24. Fetal death rates, according to race, geographic division, and State: United States, average annual 1978–80, 1983–85, and 1988–90_____ | 40 |
| 25. Infant mortality rates, feto-infant mortality rates, and postneonatal mortality rates, and average annual percent change: Selected countries, 1984 and 1989_____ | 41 |
| 26. Life expectancy at birth and at 65 years of age, according to sex: Selected countries, 1984 and 1989_____ | 42 |
| 27. Life expectancy at birth and at 65 years of age, according to race and sex: United States, selected years 1900–91_____ | 44 |
| 28. Age-adjusted death rates for selected causes of death, according to sex and race: United States, selected years 1950–90_____ | 45 |
| 29. Years of potential life lost before age 65 for selected causes of death, according to sex and race: United States, selected years 1970–90_____ | 47 |
| 30. Numbers of deaths and rank for selected causes of death, according to sex and detailed race: United States, 1985–90_____ | 49 |
| 31. Death rates for selected causes of death, according to detailed race, Hispanic origin, age, and sex: United States, 1980–82, 1985–87, and 1988–90_____ | 52 |
| 32. Age-adjusted death rates, according to race, sex, region, and urbanization: United States, average annual 1980–82, 1984–86, and 1988–90_____ | 59 |
| 33. Death rates for persons 25–64 years of age, for all races and the white population, according to sex, age, and educational attainment: Selected States, 1989–90_____ | 61 |
| 34. Death rates for all causes, according to sex, race, and age: United States, selected years 1950–90_____ | 62 |
| 35. Death rates for diseases of heart, according to sex, race, and age: United States, selected years 1950–90_____ | 64 |
| 36. Death rates for cerebrovascular diseases, according to sex, race, and age: United States, selected years 1950–90_____ | 66 |
| 37. Death rates for malignant neoplasms, according to sex, race, and age: United States, selected years 1950–90_____ | 68 |

| | | | |
|---|----|--|-----|
| 38. Death rates for malignant neoplasms of respiratory system , according to sex, race, and age: United States, selected years 1950–90 | 70 | 58. Deaths among acquired immunodeficiency syndrome (AIDS) cases, according to geographic division and State: United States, 1985–92 | 96 |
| 39. Death rates for malignant neoplasm of breast for females, according to race and age: United States, selected years 1950–90 | 71 | 59. Age-adjusted cancer incidence rates for selected cancer sites, according to sex and race: Selected geographic areas, selected years 1973–90 | 97 |
| 40. Death rates for human immunodeficiency virus (HIV) infection, according to sex, race, and age: United States, 1987–90 | 72 | 60. Five-year relative cancer survival rates for selected sites, according to race and sex: Selected geographic areas, 1974–76, 1977–79, 1980–82, and 1983–89 | 98 |
| 41. Maternal mortality rates for complications of pregnancy, childbirth, and the puerperium, according to race and age: United States, selected years 1950–90 | 73 | 61. Limitation of activity caused by chronic conditions, according to selected characteristics: United States, 1986 and 1991 | 99 |
| 42. Death rates for motor vehicle crashes , according to sex, race, and age: United States, selected years 1950–90 | 74 | 62. Disability days associated with acute conditions and incidence of acute conditions, according to age: United States, 1983–91 | 100 |
| 43. Death rates for homicide and legal intervention, according to sex, race, and age: United States, selected years 1950–90 | 76 | 63. Self-assessment of health , according to selected characteristics: United States, 1986 and 1991 | 101 |
| 44. Death rates for suicide , according to sex, race, and age: United States, selected years 1950–90 | 78 | 64. Current cigarette smoking by persons 18 years of age and over, according to sex, race, and age: United States, selected years 1965–91 | 102 |
| 45. Death rates for firearm injuries , according to sex, race, and age: United States, selected years 1970–90 | 80 | 65. Age-adjusted prevalence of current cigarette smoking by persons 25 years of age and over, according to sex, race, and education: United States, selected years 1974–91 | 103 |
| 46. Deaths for selected occupational diseases for males, according to age: United States, selected years 1970–90 | 82 | 66. Use of selected substances in the past month by youths 12–17 years of age and young adults 18–25 years of age, according to age, sex, race, and Hispanic origin: United States, selected years 1974–91 | 104 |
| 47. Occupational injury deaths , according to industry: United States, 1980–89 | 83 | 67. Use of selected substances in the past month by high school seniors, according to sex, race, and average parental education: United States, 1980–91 | 106 |
| 48. Provisional death rates for all causes, according to race, sex, and age: United States, 1989–91 | 84 | 68. Cocaine-related emergency room episodes, according to age, sex, race, and Hispanic origin: Selected metropolitan areas, 1985–89 and United States, 1989–91 | 107 |
| 49. Provisional death rates for selected causes of death: United States, 1989–91 | 85 | 69. Alcohol consumption by persons 18 years of age and over, according to sex, race, Hispanic origin, and age: United States, 1985 and 1990 | 108 |
| 50. Provisional death rates for the three leading causes of death, according to age: United States, 1989–91 | 86 | 70. Elevated blood pressure among persons 20–74 years of age, according to race, sex, and age: United States, 1960–62, 1971–74, and 1976–80 | 109 |
| Determinants and Measures of Health | | 71. Hypertension among persons 20–74 years of age, according to race, sex, and age: United States, 1960–62, 1971–74, and 1976–80 | 110 |
| 51. Vaccinations of children 1–4 years of age for selected diseases, according to race and residence in metropolitan statistical area (MSA): United States, 1970, 1976, 1983–85, and 1991 | 87 | 72. Persons 20 years of age and over with high serum cholesterol levels and mean serum cholesterol levels, according to sex, age, race, and Hispanic origin: United States, 1960–62, 1971–74, 1976–80, and 1988–91 | 111 |
| 52. Selected notifiable disease rates , according to disease: United States, selected years 1950–91 | 88 | 73. Overweight persons 20–74 years of age, according to race, sex, and age: United States, 1960–62, 1971–74, and 1976–80 | 112 |
| 53. Acquired immunodeficiency syndrome (AIDS) cases, according to age at diagnosis, sex, detailed race, and Hispanic origin: United States, 1985–92 | 89 | 74. Air pollution, according to source and type of pollutant: United States, selected years 1970–91 | 113 |
| 54. Deaths among acquired immunodeficiency syndrome (AIDS) cases, according to age at death, sex, detailed race, and Hispanic origin: United States, 1985–92 | 90 | 75. Occupational injuries with lost workdays in the private sector, according to industry: United States, 1980–90 | 114 |
| 55. Acquired immunodeficiency syndrome (AIDS) cases, according to race, Hispanic origin, sex, and transmission category for persons 13 years of age and over at diagnosis: United States, 1985–92 | 91 | 76. Production employees with potential exposure to elemental lead or to continuous noise, according to industry and size of facility: United States, 1972–74 and 1981–83 | 115 |
| 56. Deaths among acquired immunodeficiency syndrome (AIDS) cases, according to race, Hispanic origin, sex, and transmission category for persons 13 years of age and over at diagnosis: United States, 1985–92 | 93 | | |
| 57. Acquired immunodeficiency syndrome (AIDS) cases, according to geographic division and State: United States, 1985–92 | 95 | | |

| | | | |
|--|-----|---|-----|
| 77. Health and safety services available in nonagricultural industries, according to size of facility: United States, 1972–74 and 1981–83 | 116 | 93. Additions to mental health organizations and rate per 100,000 civilian population, according to type of service and organization: United States, selected years 1975–88 | 136 |
| Utilization of Health Resources | | | |
| Ambulatory Care | | | |
| 78. Physician contacts, according to place of contact and selected patient characteristics: United States, 1986 and 1991 | 117 | 94. Inpatient and residential treatment episodes in mental health organizations, rate per 100,000 civilian population, and inpatient days, according to type of organization: United States, selected years 1975–88 | 137 |
| 79. Interval since last physician contact, according to selected patient characteristics: United States, 1964, 1986, and 1991 | 118 | 95. Additions to selected inpatient psychiatric organizations and rate per 100,000 civilian population, according to sex, age, and race: United States, 1975, 1980, and 1986 | 138 |
| 80. Office visits to physicians, according to physician specialty and selected patient characteristics: United States, 1985 and 1990 | 119 | 96. Additions to selected inpatient psychiatric organizations, according to selected primary diagnoses and age: United States, 1975, 1980, and 1986 | 139 |
| 81. Office visits to physicians, according to selected patient and visit characteristics and physician specialty: United States, 1985 and 1990 | 120 | Health Care Resources | |
| 82. Dental visits and interval since last visit, according to selected patient characteristics: United States, 1964, 1983, and 1989 | 121 | Personnel | |
| Inpatient Care | | | |
| 83. Discharges, days of care, and average length of stay in short-stay hospitals, according to selected characteristics: United States, 1964, 1986, and 1991 | 122 | 97. Persons employed in health service sites: United States, selected years 1970–91 | 140 |
| 84. Discharges, days of care, and average length of stay in nonfederal short-stay hospitals, according to selected characteristics: United States, selected years 1980–91 | 123 | 98. Active nonfederal physicians per 10,000 civilian population, according to geographic division, State, and primary specialty: United States, 1975, 1985, 1987, and 1990 | 141 |
| 85. Discharges, days of care, and average length of stay in nonfederal short-stay hospitals for discharges with the diagnosis of human immunodeficiency virus (HIV) and for all discharges: United States, 1984–91 | 124 | 99. Active physicians, according to type of physician, and number per 10,000 population: United States and outlying U.S. areas, selected years 1950–90 and projections for year 2000 | 143 |
| 86. Rates of discharges and days of care in nonfederal short-stay hospitals, according to sex, age, and selected first-listed diagnosis: United States, 1980, 1985, 1990, and 1991 | 125 | 100. Physicians, according to activity and place of medical education: United States and outlying U.S. areas, selected years 1970–90 | 144 |
| 87. Discharges and average length of stay in nonfederal short-stay hospitals, according to sex, age, and selected first-listed diagnosis: United States, 1980, 1985, 1990, and 1991 | 127 | 101. Active health personnel and number per 100,000 population, according to occupation and geographic region: United States, 1970, 1980, and 1990 | 145 |
| 88. Operations for inpatients discharged from nonfederal short-stay hospitals, according to sex, age, and surgical category: United States, 1980, 1985, 1990, and 1991 | 129 | 102. Full-time equivalent employment in selected occupations for community hospitals: United States, 1981 and 1986–90 | 146 |
| 89. Diagnostic and other nonsurgical procedures for inpatients discharged from nonfederal short-stay hospitals, according to sex, age, and procedure category: United States, 1980, 1985, 1990, and 1991 | 131 | 103. Full-time equivalent patient care staff in mental health organizations, according to type of organization and staff discipline: United States, selected years 1984–88 | 147 |
| 90. Admissions, average length of stay, outpatient visits, and percent outpatient surgery in short-stay hospitals, according to type of ownership and size of hospital: United States, selected years 1960–91 | 133 | 104. First-year enrollment and graduates of health professions schools and number of schools, according to profession: United States, selected years 1950–91 and projections for year 2000 | 149 |
| 91. Nursing home and personal care home residents 65 years of age and over and rate per 1,000 population, according to age, sex, and race: United States, 1963, 1973–74, 1977, and 1985 | 134 | 105. First-year and total enrollment of minorities in schools for selected health occupations, according to detailed race and Hispanic origin: United States, academic years 1980–81 and 1990–91 | 150 |
| 92. Nursing home residents, according to selected functional status and age: United States, 1977 and 1985 | 135 | 106. First-year and total enrollment of women in schools for selected health occupations, according to detailed race and Hispanic origin: United States, academic years 1971–72, 1980–81, and 1990–91 | 152 |

| | | | |
|--|-----|--|-----|
| 108. Long-term hospitals, beds, and occupancy rates, according to type of hospital and ownership: United States, selected years 1970-91 | 154 | 125. Expenditures on hospital care, nursing home care, physician services, and all other personal health care expenditures and percent distribution, according to source of funds: United States, selected years 1960-91 | 172 |
| 109. Inpatient and residential treatment beds in mental health organizations and rate per 100,000 civilian population, according to type of organization: United States, selected years 1970-88 | 155 | 126. Nursing home average monthly charges per resident and percent of residents, according to primary source of payments and selected facility characteristics: United States, 1977 and 1985 | 173 |
| 110. Community hospital beds per 1,000 population and average annual percent change, according to geographic division and State: United States, selected years 1940-90 | 156 | 127. Nursing home average monthly charges per resident and percent of residents, according to selected facility and resident characteristics: United States, 1964, 1973-74, 1977, and 1985 | 174 |
| 111. Occupancy rates in community hospitals and average annual percent change, according to geographic division and State: United States, selected years 1940-90 | 157 | 128. National funding for health research and development and average annual percent change, according to source of funds: United States, selected years 1960-91 | 175 |
| 112. Full-time equivalent employees per 100 average daily patients in community hospitals and average annual percent change, according to geographic division and State: United States, selected years 1960-90 | 158 | 129. Federal funding for health research and development and percent distribution, according to agency: United States, selected fiscal years 1970-91 | 176 |
| 113. Nursing homes with 25 or more beds, beds, and bed rates, according to geographic division and State: United States, 1976, 1982, and 1986 | 159 | 130. Federal spending for human immunodeficiency virus (HIV)-related activities according to agency and type of activity: United States, fiscal years 1982-91 | 177 |
| Health Care Expenditures | | 131. Public health expenditures by State and territorial health agencies, according to source of funds and program area: United States, selected fiscal years 1976-89 | 178 |
| National Health Expenditures | | 132. Personal health care per capita expenditures and average annual percent change, according to geographic division and State: United States, selected years 1966-82 | 179 |
| 114. Gross domestic product, national health expenditures, and Federal and State and local government expenditures: United States, selected years 1960-91 | 160 | 133. Hospital care per capita expenditures and average annual percent change, according to geographic division and State: United States, selected years 1966-82 | 180 |
| 115. Total health expenditures as a percent of gross domestic product and per capita expenditures in dollars: Selected countries and years 1960-91 | 161 | 134. Nursing home care per capita expenditures and average annual percent change, according to geographic division and State: United States, selected years 1966-82 | 181 |
| 116. National health expenditures, percent distribution, and average annual percent change, according to type of expenditure: United States, selected years 1960-91 | 162 | Health Care Coverage and Major Federal Programs | |
| 117. Personal health care expenditures average annual percent change and percent distribution of factors affecting growth: United States, 1960-91 | 163 | 135. Health care coverage for persons under 65 years of age, according to type of coverage and selected characteristics: United States, 1980, 1984, and 1989 | 182 |
| 118. Consumer Price Index and average annual percent change for all items and selected items: United States, selected years 1950-92 | 164 | 136. Health care coverage for persons 65 years of age and over, according to type of coverage and selected characteristics: United States, 1980, 1984, and 1989 | 183 |
| 119. Consumer Price Index and average annual percent change for all items and medical care components: United States, selected years 1950-92 | 165 | 137. Health maintenance organizations and enrollment, according to model type, geographic region, and Federal program: United States, selected years 1976-92 | 184 |
| Sources and Types of Payment | | 138. Medicare enrollees and expenditures and percent distribution, according to type of service: United States and other areas, selected years 1967-91 | 185 |
| 120. Hospital expenses and personnel and average annual percent change in nonfederal short-stay hospitals: United States, 1971-91 | 166 | 139. Medicare enrollment, persons served, and payments for Medicare enrollees 65 years of age and over, according to selected characteristics: United States and other areas, selected years 1967-90 | 186 |
| 121. Hospital expenses in short-stay hospitals, according to type of ownership and size of hospital: United States, selected years 1970-91 | 167 | 140. Hospital utilization and benefit payments for aged and disabled Medicare enrollees in nonfederal short-stay hospitals, according to geographic division: United States, 1980, 1985, and 1990 | 187 |
| 122. National health expenditures and average annual percent change, according to source of funds: United States, selected years 1929-91 | 168 | 141. Medicaid recipients and medical vendor payments, according to basis of eligibility: United States, selected fiscal years 1972-91 | 188 |
| 123. Personal health care expenditures and percent distribution, according to source of funds: United States, selected years 1929-91 | 169 | | |
| 124. Expenditures for health services and supplies and percent distribution, by type of payer: United States, selected calendar years 1965-91 | 170 | | |

| | |
|--|-----|
| 142. Medicaid recipients and medical vendor payments, according to type of service: United States, selected fiscal years 1972-91 | 189 |
| 143. Department of Veterans Affairs health care expenditures and use, and persons treated according to selected characteristics: United States, selected fiscal years 1965-91 | 191 |
| 144. Mental health expenditures, percent distribution, and per capita expenditures, according to type of mental health organization: United States, selected years 1969-88 | 192 |
| 145. State mental health agency per capita expenditures for mental health services, and average annual percent change, according to State: United States, selected fiscal years 1981-90 | 193 |

Table 1 (page 1 of 2). Resident population, according to age, sex, detailed race, and Hispanic origin: United States, selected years 1950–90

[Data are based on decennial census updated by data from multiple sources]

| Sex, race, Hispanic origin, and year | Total resident population | Under 1 year | 1–4 years | 5–14 years | 15–24 years | 25–34 years | 35–44 years | 45–54 years | 55–64 years | 65–74 years | 75–84 years | 85 years and over |
|--|---------------------------|--------------|-----------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------|
| Number in thousands | | | | | | | | | | | | |
| All persons | | | | | | | | | | | | |
| 1950 | 150,697 | 3,147 | 13,017 | 24,319 | 22,098 | 23,759 | 21,450 | 17,343 | 13,370 | 8,340 | 3,278 | 577 |
| 1960 | 179,323 | 4,112 | 16,209 | 35,465 | 24,020 | 22,818 | 24,081 | 20,485 | 15,572 | 10,997 | 4,633 | 929 |
| 1970 | 203,212 | 3,485 | 13,669 | 40,746 | 35,441 | 24,907 | 23,088 | 23,220 | 18,590 | 12,435 | 6,119 | 1,511 |
| 1980 | 226,546 | 3,534 | 12,815 | 34,942 | 42,487 | 37,082 | 25,635 | 22,800 | 21,703 | 15,581 | 7,729 | 2,240 |
| 1985 | 237,923 | 3,679 | 14,163 | 33,692 | 39,992 | 41,696 | 31,691 | 22,459 | 22,135 | 16,859 | 8,890 | 2,667 |
| 1986 | 240,134 | 3,700 | 14,263 | 33,573 | 39,557 | 42,372 | 33,009 | 22,659 | 21,994 | 17,137 | 9,128 | 2,742 |
| 1987 | 242,289 | 3,703 | 14,349 | 33,807 | 38,890 | 42,841 | 34,226 | 23,096 | 21,751 | 17,427 | 9,376 | 2,823 |
| 1988 | 244,499 | 3,757 | 14,439 | 34,256 | 38,151 | 43,130 | 35,180 | 23,949 | 21,514 | 17,626 | 9,612 | 2,885 |
| 1989 | 246,819 | 3,858 | 14,650 | 34,714 | 37,391 | 43,236 | 36,414 | 24,633 | 21,241 | 17,864 | 9,850 | 2,968 |
| 1990 | 248,710 | 3,946 | 14,812 | 35,095 | 37,013 | 43,161 | 37,435 | 25,057 | 21,113 | 18,045 | 10,012 | 3,021 |
| White male | | | | | | | | | | | | |
| 1950 | 67,129 | 1,400 | 5,845 | 10,860 | 9,689 | 10,430 | 9,529 | 7,836 | 6,180 | 3,736 | 1,406 | 218 |
| 1960 | 78,367 | 1,784 | 7,065 | 15,659 | 10,483 | 9,940 | 10,564 | 9,114 | 6,850 | 4,702 | 1,875 | 331 |
| 1970 | 86,721 | 1,501 | 5,873 | 17,667 | 15,232 | 10,775 | 9,979 | 10,090 | 7,958 | 4,916 | 2,243 | 487 |
| 1980 | 94,976 | 1,487 | 5,402 | 14,773 | 18,123 | 15,940 | 11,010 | 9,774 | 9,151 | 6,096 | 2,600 | 621 |
| 1985 | 98,635 | 1,535 | 5,897 | 14,013 | 16,828 | 17,698 | 13,538 | 9,538 | 9,290 | 6,628 | 2,982 | 688 |
| 1986 | 99,374 | 1,538 | 5,927 | 13,926 | 16,605 | 17,959 | 14,076 | 9,610 | 9,213 | 6,751 | 3,065 | 704 |
| 1987 | 100,072 | 1,530 | 5,950 | 13,998 | 16,276 | 18,106 | 14,572 | 9,791 | 9,097 | 6,877 | 3,154 | 721 |
| 1988 | 100,786 | 1,543 | 5,968 | 14,167 | 15,921 | 18,170 | 14,929 | 10,167 | 8,990 | 6,958 | 3,242 | 731 |
| 1989 | 101,535 | 1,569 | 6,030 | 14,332 | 15,565 | 18,156 | 15,417 | 10,455 | 8,870 | 7,056 | 3,335 | 750 |
| 1990 | 102,143 | 1,604 | 6,071 | 14,467 | 15,389 | 18,071 | 15,819 | 10,624 | 8,813 | 7,127 | 3,397 | 760 |
| White female | | | | | | | | | | | | |
| 1950 | 67,813 | 1,341 | 5,599 | 10,431 | 9,821 | 10,851 | 9,719 | 7,868 | 6,168 | 4,031 | 1,669 | 314 |
| 1960 | 80,465 | 1,714 | 6,795 | 15,068 | 10,596 | 10,204 | 11,000 | 9,364 | 7,327 | 5,428 | 2,441 | 527 |
| 1970 | 91,028 | 1,434 | 5,615 | 16,912 | 15,420 | 11,004 | 10,349 | 10,756 | 8,853 | 6,366 | 3,429 | 890 |
| 1980 | 99,835 | 1,412 | 5,127 | 14,057 | 17,653 | 15,896 | 11,232 | 10,285 | 10,325 | 7,951 | 4,457 | 1,440 |
| 1985 | 103,397 | 1,457 | 5,599 | 13,288 | 16,236 | 17,435 | 13,699 | 9,909 | 10,378 | 8,536 | 5,104 | 1,756 |
| 1986 | 104,056 | 1,460 | 5,627 | 13,204 | 15,965 | 17,656 | 14,207 | 9,963 | 10,278 | 8,657 | 5,232 | 1,807 |
| 1987 | 104,697 | 1,453 | 5,648 | 13,269 | 15,604 | 17,790 | 14,674 | 10,128 | 10,121 | 8,785 | 5,363 | 1,862 |
| 1988 | 105,342 | 1,465 | 5,666 | 13,422 | 15,214 | 17,850 | 15,005 | 10,495 | 9,968 | 8,867 | 5,484 | 1,906 |
| 1989 | 106,005 | 1,492 | 5,724 | 13,579 | 14,817 | 17,830 | 15,457 | 10,780 | 9,793 | 8,968 | 5,604 | 1,961 |
| 1990 | 106,561 | 1,524 | 5,762 | 13,706 | 14,599 | 17,757 | 15,834 | 10,946 | 9,698 | 9,048 | 5,687 | 2,001 |
| Black male | | | | | | | | | | | | |
| 1950 | 7,300 | --- | --- | 1,442 | 1,162 | 1,105 | 1,003 | 772 | 460 | 299 | --- | --- |
| 1960 | 9,114 | 281 | 1,082 | 2,185 | 1,305 | 1,120 | 1,086 | 891 | 617 | 382 | 137 | 29 |
| 1970 | 10,748 | 245 | 975 | 2,784 | 2,041 | 1,226 | 1,084 | 979 | 739 | 461 | 169 | 46 |
| 1980 | 12,585 | 269 | 967 | 2,614 | 2,807 | 1,967 | 1,235 | 1,024 | 854 | 567 | 228 | 53 |
| 1985 | 13,505 | 276 | 1,067 | 2,599 | 2,768 | 2,391 | 1,543 | 1,069 | 887 | 586 | 257 | 62 |
| 1986 | 13,687 | 280 | 1,076 | 2,594 | 2,769 | 2,452 | 1,629 | 1,082 | 889 | 591 | 262 | 63 |
| 1987 | 13,869 | 287 | 1,086 | 2,612 | 2,750 | 2,507 | 1,707 | 1,105 | 888 | 596 | 267 | 64 |
| 1988 | 14,057 | 297 | 1,103 | 2,640 | 2,723 | 2,550 | 1,789 | 1,132 | 885 | 602 | 271 | 65 |
| 1989 | 14,258 | 315 | 1,135 | 2,671 | 2,687 | 2,579 | 1,883 | 1,157 | 881 | 609 | 275 | 66 |
| 1990 | 14,420 | 322 | 1,164 | 2,700 | 2,669 | 2,592 | 1,962 | 1,175 | 878 | 614 | 277 | 66 |
| Black female | | | | | | | | | | | | |
| 1950 | 7,745 | --- | --- | 1,446 | 1,300 | 1,260 | 1,112 | 796 | 443 | 322 | --- | --- |
| 1960 | 9,758 | 283 | 1,085 | 2,191 | 1,404 | 1,300 | 1,229 | 974 | 663 | 430 | 160 | 38 |
| 1970 | 11,832 | 243 | 970 | 2,773 | 2,196 | 1,456 | 1,309 | 1,134 | 868 | 582 | 230 | 71 |
| 1980 | 14,046 | 266 | 951 | 2,578 | 2,937 | 2,267 | 1,488 | 1,258 | 1,059 | 776 | 360 | 106 |
| 1985 | 15,063 | 271 | 1,045 | 2,547 | 2,845 | 2,711 | 1,828 | 1,298 | 1,121 | 833 | 431 | 133 |
| 1986 | 15,256 | 275 | 1,053 | 2,541 | 2,830 | 2,767 | 1,921 | 1,313 | 1,128 | 844 | 446 | 138 |
| 1987 | 15,456 | 281 | 1,061 | 2,557 | 2,803 | 2,820 | 2,007 | 1,336 | 1,133 | 854 | 460 | 144 |
| 1988 | 15,667 | 291 | 1,079 | 2,583 | 2,771 | 2,863 | 2,094 | 1,366 | 1,133 | 864 | 474 | 149 |
| 1989 | 15,887 | 309 | 1,110 | 2,613 | 2,726 | 2,892 | 2,195 | 1,395 | 1,132 | 876 | 486 | 153 |
| 1990 | 16,063 | 316 | 1,137 | 2,641 | 2,700 | 2,905 | 2,279 | 1,416 | 1,135 | 884 | 495 | 156 |
| American Indian or Alaskan Native male | | | | | | | | | | | | |
| 1980 | 702 | 17 | 59 | 153 | 161 | 114 | 75 | 53 | 37 | 22 | 9 | 2 |
| 1985 | 848 | 20 | 75 | 171 | 181 | 144 | 104 | 66 | 47 | 26 | 11 | 3 |
| 1986 | 882 | 20 | 78 | 176 | 185 | 151 | 112 | 70 | 48 | 27 | 12 | 3 |
| 1987 | 919 | 21 | 81 | 183 | 188 | 158 | 120 | 74 | 50 | 29 | 12 | 3 |
| 1988 | 952 | 21 | 82 | 191 | 189 | 166 | 127 | 78 | 52 | 30 | 13 | 3 |
| 1989 | 992 | 23 | 85 | 200 | 190 | 176 | 135 | 83 | 53 | 31 | 13 | 3 |
| 1990 | 1,024 | 24 | 88 | 206 | 192 | 183 | 140 | 86 | 55 | 32 | 13 | 3 |

See footnotes at end of table.

**Table 1 (page 2 of 2). Resident population, according to age, sex, detailed race, and Hispanic origin:
United States, selected years 1950–90**

[Data are based on decennial census updated by data from multiple sources]

| Sex, race, Hispanic origin, and year | Total resident population | Under 1 year | 1–4 years | 5–14 years | 15–24 years | 25–34 years | 35–44 years | 45–54 years | 55–64 years | 65–74 years | 75–84 years | 85 years and over |
|--|---------------------------|--------------|-----------|------------|-------------|-------------|---------------------|-------------|-------------|-------------|-------------|-------------------|
| American Indian or Alaskan Native female | | | | | | | | | | | | |
| | | | | | | | Number in thousands | | | | | |
| 1980 | 718 | 16 | 57 | 149 | 158 | 118 | 79 | 57 | 41 | 27 | 12 | 4 |
| 1985 | 867 | 19 | 73 | 165 | 172 | 149 | 111 | 71 | 52 | 33 | 17 | 5 |
| 1986 | 899 | 20 | 76 | 169 | 174 | 155 | 120 | 74 | 54 | 34 | 18 | 5 |
| 1987 | 935 | 20 | 79 | 177 | 176 | 162 | 128 | 78 | 56 | 36 | 18 | 5 |
| 1988 | 971 | 21 | 80 | 184 | 177 | 170 | 136 | 82 | 58 | 38 | 19 | 6 |
| 1989 | 1,011 | 23 | 82 | 193 | 178 | 179 | 143 | 88 | 60 | 39 | 20 | 6 |
| 1990 | 1,041 | 24 | 85 | 200 | 178 | 186 | 148 | 92 | 61 | 41 | 21 | 6 |
| Asian or Pacific Islander male | | | | | | | | | | | | |
| 1980 | 1,693 | 31 | 117 | 297 | 306 | 339 | 239 | 152 | 106 | 70 | 29 | 5 |
| 1985 | 2,741 | 52 | 205 | 463 | 499 | 559 | 409 | 244 | 160 | 99 | 43 | 8 |
| 1986 | 2,923 | 54 | 216 | 490 | 534 | 593 | 444 | 263 | 169 | 106 | 45 | 9 |
| 1987 | 3,103 | 57 | 225 | 515 | 566 | 628 | 479 | 283 | 179 | 113 | 48 | 10 |
| 1988 | 3,292 | 61 | 234 | 544 | 600 | 661 | 517 | 305 | 188 | 120 | 51 | 11 |
| 1989 | 3,493 | 66 | 246 | 574 | 636 | 696 | 557 | 327 | 198 | 127 | 55 | 11 |
| 1990 | 3,652 | 68 | 258 | 598 | 665 | 718 | 588 | 347 | 208 | 133 | 57 | 12 |
| Asian or Pacific Islander female | | | | | | | | | | | | |
| 1980 | 1,807 | 30 | 115 | 285 | 302 | 401 | 258 | 186 | 122 | 68 | 32 | 9 |
| 1985 | 2,866 | 50 | 201 | 445 | 463 | 608 | 459 | 265 | 200 | 117 | 46 | 12 |
| 1986 | 3,055 | 51 | 211 | 472 | 494 | 639 | 500 | 283 | 215 | 127 | 50 | 13 |
| 1987 | 3,240 | 54 | 219 | 497 | 526 | 670 | 540 | 302 | 228 | 137 | 53 | 14 |
| 1988 | 3,433 | 58 | 226 | 526 | 557 | 699 | 583 | 325 | 240 | 147 | 57 | 15 |
| 1989 | 3,641 | 63 | 237 | 553 | 593 | 730 | 629 | 349 | 253 | 157 | 61 | 16 |
| 1990 | 3,805 | 65 | 247 | 578 | 621 | 749 | 664 | 371 | 264 | 166 | 65 | 17 |
| Hispanic male | | | | | | | | | | | | |
| 1980 | 7,280 | 173 | 675 | 1,530 | 1,646 | 1,255 | 761 | 570 | 364 | 201 | 86 | 19 |
| 1985 | 9,275 | 208 | 783 | 1,823 | 2,022 | 1,852 | 1,060 | 674 | 479 | 239 | 111 | 24 |
| 1986 | 9,691 | 219 | 814 | 1,873 | 2,099 | 1,969 | 1,134 | 695 | 497 | 250 | 115 | 26 |
| 1987 | 10,113 | 229 | 847 | 1,937 | 2,161 | 2,079 | 1,214 | 722 | 512 | 265 | 119 | 28 |
| 1988 | 10,558 | 240 | 886 | 2,006 | 2,234 | 2,179 | 1,300 | 755 | 525 | 280 | 123 | 30 |
| 1989 | 11,017 | 262 | 937 | 2,074 | 2,304 | 2,260 | 1,394 | 791 | 538 | 298 | 128 | 31 |
| 1990 | 11,388 | 279 | 980 | 2,128 | 2,376 | 2,310 | 1,471 | 818 | 551 | 312 | 131 | 32 |
| Hispanic female | | | | | | | | | | | | |
| 1980 | 7,329 | 166 | 648 | 1,482 | 1,547 | 1,249 | 805 | 615 | 411 | 257 | 116 | 30 |
| 1985 | 9,094 | 199 | 749 | 1,755 | 1,814 | 1,704 | 1,092 | 719 | 540 | 317 | 163 | 42 |
| 1986 | 9,462 | 210 | 779 | 1,800 | 1,867 | 1,794 | 1,160 | 740 | 562 | 332 | 172 | 46 |
| 1987 | 9,834 | 219 | 811 | 1,860 | 1,908 | 1,877 | 1,231 | 769 | 580 | 349 | 181 | 49 |
| 1988 | 10,229 | 231 | 849 | 1,926 | 1,949 | 1,958 | 1,304 | 803 | 599 | 366 | 192 | 52 |
| 1989 | 10,632 | 252 | 897 | 1,989 | 1,986 | 2,025 | 1,382 | 840 | 617 | 386 | 202 | 56 |
| 1990 | 10,966 | 268 | 939 | 2,039 | 2,028 | 2,073 | 1,448 | 868 | 632 | 403 | 209 | 59 |

NOTES: The race groups, white and black, include persons of both Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race. Population figures are census counts as of April 1 for 1950, 1960, 1970, 1980, and 1990 and estimates as of July 1 for other years. Data for the 1980's are intercensal population estimates and differ from postcensal population estimates in previous editions of Health, United States. See Appendix I, Department of Commerce.

SOURCES: U.S. Bureau of the Census: 1950 Nonwhite Population by Race. Special Report P-E, No. 3B. Washington. U.S. Government Printing Office, 1951; Population estimates and projections. Current Population Reports. Series P-25, Nos. 499, 1022, 1045, 1046, and 1057. Washington. U.S. Government Printing Office, May 1973, Mar. 1988, Sept. 1989, Jan. 1990, and Mar. 1990; U.S. Bureau of the Census, U.S. Census of Population: 1960, Number of Inhabitants, PC(1)-A1, United States Summary, 1964. U.S. Bureau of the Census, U.S. Census of Population: 1970, Number of Inhabitants, Final Report PC(1)-A1, United States Summary, 1971; U.S. Bureau of the Census, U.S. Census of Population: 1980, General Population Characteristics, PC80-1-B1, United States Summary, May 1983; U.S. Bureau of the Census, U.S. Census of Population: 1990, Population and Housing, CPH-L-74, Aug. 1991; Unpublished data from the U.S. Bureau of the Census.

Table 2. Persons and families below poverty level, according to selected characteristics, race, and Hispanic origin: United States, selected years 1973–91

[Data are based on household interviews of the civilian noninstitutionalized population]

| Selected characteristics, race, and Hispanic origin | 1973 | 1980 ¹ | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 |
|---|--------|-------------------|--------|--------|--------|--------|--------|--------|--------|
| All persons | | | | | | | | | |
| All races | 11.1 | 13.0 | 14.0 | 13.6 | 13.4 | 13.0 | 12.8 | 13.5 | 14.2 |
| White | 8.4 | 10.2 | 11.4 | 11.0 | 10.4 | 10.1 | 10.0 | 10.7 | 11.3 |
| Black | 31.4 | 32.5 | 31.3 | 31.1 | 32.4 | 31.3 | 30.7 | 31.9 | 32.7 |
| Hispanic | 21.9 | 25.7 | 29.0 | 27.3 | 28.0 | 26.7 | 26.2 | 28.1 | 28.7 |
| Related children under 18 years of age in families | | | | | | | | | |
| All races | 14.2 | 17.9 | 20.1 | 19.8 | 19.7 | 19.0 | 19.0 | 19.9 | 21.1 |
| White | 9.7 | 13.4 | 15.6 | 15.3 | 14.7 | 14.0 | 14.1 | 15.1 | 16.1 |
| Black | 40.6 | 42.1 | 43.1 | 42.7 | 44.4 | 42.8 | 43.2 | 44.2 | 45.6 |
| Hispanic | 27.8 | 33.0 | 39.6 | 37.1 | 38.9 | 37.3 | 35.5 | 37.7 | 39.8 |
| Families with female householder, no husband present, and children under 18 years of age | | | | | | | | | |
| All races | 43.2 | 42.9 | 45.4 | 46.0 | 45.5 | 44.7 | 42.8 | 44.5 | 47.1 |
| White | 35.2 | 35.9 | 38.7 | 39.8 | 38.3 | 38.2 | 36.1 | 37.9 | 39.6 |
| Black | 58.8 | 56.0 | 58.9 | 58.0 | 58.6 | 56.2 | 53.9 | 56.1 | 60.5 |
| Hispanic | --- | 57.3 | 64.0 | 59.5 | 60.9 | 59.2 | 57.9 | 58.2 | 60.1 |
| All persons | | | | | | | | | |
| Number below poverty in thousands | | | | | | | | | |
| All races | 22,973 | 29,272 | 33,064 | 32,370 | 32,221 | 31,745 | 31,528 | 33,585 | 35,708 |
| White | 15,142 | 19,699 | 22,860 | 22,183 | 21,195 | 20,715 | 20,785 | 22,326 | 23,747 |
| Black | 7,388 | 8,579 | 8,926 | 8,983 | 9,520 | 9,356 | 9,302 | 9,837 | 10,242 |
| Hispanic | 2,366 | 3,491 | 5,236 | 5,117 | 5,422 | 5,357 | 5,430 | 6,006 | 6,339 |
| Related children under 18 years of age in families | | | | | | | | | |
| All races | 9,453 | 11,114 | 12,483 | 12,257 | 12,275 | 11,935 | 12,001 | 12,715 | 13,658 |
| White | 5,462 | 6,817 | 7,838 | 7,714 | 7,398 | 7,095 | 7,164 | 7,696 | 8,316 |
| Black | 3,822 | 3,906 | 4,057 | 4,037 | 4,234 | 4,148 | 4,257 | 4,412 | 4,637 |
| Hispanic | 1,364 | 1,718 | 2,512 | 2,413 | 2,606 | 2,576 | 2,496 | 2,750 | 2,977 |
| Families with female householder, no husband present, and children under 18 years of age | | | | | | | | | |
| All races | 1,987 | 2,703 | 3,131 | 3,264 | 3,281 | 3,294 | 3,190 | 3,426 | 3,767 |
| White | 1,053 | 1,433 | 1,730 | 1,812 | 1,742 | 1,740 | 1,671 | 1,814 | 1,969 |
| Black | 905 | 1,217 | 1,336 | 1,384 | 1,437 | 1,452 | 1,415 | 1,513 | 1,676 |
| Hispanic | --- | 288 | 493 | 489 | 527 | 510 | 491 | 536 | 584 |

¹Data for Hispanic families with female householder, no husband present, and children under 18 years are for 1979.

NOTES: The race groups, white and black, include persons of both Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race. Some numbers in this table have been revised and differ from previous editions of Health, United States.

SOURCE: U.S. Bureau of the Census: Poverty in the United States 1991. Current Population Reports. Series P-60, No. 181. Washington. U.S. Government Printing Office, Aug. 1992.

**Table 3. Live births, crude birth rates, and birth rates by age of mother, according to race:
United States, selected years 1950–91**

[Data are based on the National Vital Statistics System]

| Race and year | Live births | Crude birth rate ¹ | Age | | | | | | | | | |
|-------------------------------------|----------------|-------------------------------------|-----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|
| | | | 10–14 years | 15–17 years | 18–19 years | 20–24 years | 25–29 years | 30–34 years | 35–39 years | 40–44 years | 45–49 years | |
| All races | | | Live births per 1,000 women | | | | | | | | | |
| 1950 | 3,632,000 | 24.1 | 1.0 | 40.7 | 132.7 | 196.6 | 166.1 | 103.7 | 52.9 | 15.1 | 1.2 | |
| 1960 | 4,257,850 | 23.7 | 0.8 | 43.9 | 166.7 | 258.1 | 197.4 | 112.7 | 56.2 | 15.5 | 0.9 | |
| 1970 | 3,731,386 | 18.4 | 1.2 | 38.8 | 114.7 | 167.8 | 145.1 | 73.3 | 31.7 | 8.1 | 0.5 | |
| 1975 | 3,144,198 | 14.6 | 1.3 | 36.1 | 85.0 | 113.0 | 108.2 | 52.3 | 19.5 | 4.6 | 0.3 | |
| 1980 | 3,612,258 | 15.9 | 1.1 | 32.5 | 82.1 | 115.1 | 112.9 | 61.9 | 19.8 | 3.9 | 0.2 | |
| 1985 | 3,760,561 | 15.8 | 1.2 | 31.0 | 79.6 | 108.3 | 111.0 | 69.1 | 24.0 | 4.0 | 0.2 | |
| 1986 | 3,756,547 | 15.6 | 1.3 | 30.5 | 79.6 | 107.4 | 109.8 | 70.1 | 24.4 | 4.1 | 0.2 | |
| 1987 | 3,809,394 | 15.7 | 1.3 | 31.7 | 78.5 | 107.9 | 111.6 | 72.1 | 26.3 | 4.4 | 0.2 | |
| 1988 | 3,909,510 | 16.0 | 1.3 | 33.6 | 79.9 | 110.2 | 114.4 | 74.8 | 28.1 | 4.8 | 0.2 | |
| 1989 | 4,040,958 | 16.4 | 1.4 | 36.4 | 84.2 | 113.8 | 117.6 | 77.4 | 29.9 | 5.2 | 0.2 | |
| 1990 | 4,158,212 | 16.7 | 1.4 | 37.5 | 88.6 | 116.5 | 120.2 | 80.8 | 31.7 | 5.5 | 0.2 | |
| Provisional data: | | | | | | | | | | | | |
| 1989 ² | 4,021,000 | 16.2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| 1990 ² | 4,179,000 | 16.7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| 1991 | 4,111,000 | 16.2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| Race of child ³ : White | | | | | | | | | | | | |
| 1950 | 3,108,000 | 23.0 | 0.4 | 31.3 | 120.5 | 190.4 | 165.1 | 102.6 | 51.4 | 14.5 | 1.0 | |
| 1960 | 3,600,744 | 22.7 | 0.4 | 35.5 | 154.6 | 252.8 | 194.9 | 109.6 | 54.0 | 14.7 | 0.8 | |
| 1970 | 3,091,264 | 17.4 | 0.5 | 29.2 | 101.5 | 163.4 | 145.9 | 71.9 | 30.0 | 7.5 | 0.4 | |
| 1975 | 2,551,996 | 13.6 | 0.6 | 28.0 | 74.0 | 108.2 | 108.1 | 51.3 | 18.2 | 4.2 | 0.2 | |
| 1980 | 2,898,732 | 14.9 | 0.6 | 25.2 | 72.1 | 109.5 | 112.4 | 60.4 | 18.5 | 3.4 | 0.2 | |
| 1985 | 2,991,373 | 14.8 | 0.6 | 24.0 | 69.2 | 102.4 | 110.7 | 68.9 | 22.9 | 3.6 | 0.2 | |
| 1986 | 2,970,439 | 14.6 | 0.6 | 23.3 | 68.7 | 101.0 | 109.2 | 69.8 | 23.5 | 3.7 | 0.2 | |
| 1987 | 2,992,488 | 14.6 | 0.6 | 24.0 | 67.3 | 100.4 | 110.7 | 71.9 | 25.5 | 4.1 | 0.2 | |
| 1988 | 3,046,162 | 14.8 | 0.6 | 25.3 | 67.8 | 101.6 | 113.0 | 74.3 | 27.2 | 4.4 | 0.2 | |
| 1989 | 3,131,991 | 15.1 | 0.7 | 27.4 | 70.9 | 104.6 | 115.9 | 76.9 | 29.2 | 4.8 | 0.2 | |
| 1990 | 3,225,343 | 15.5 | 0.7 | 28.6 | 75.6 | 107.2 | 118.8 | 80.4 | 30.9 | 5.1 | 0.2 | |
| Race of mother ⁴ : White | | | | | | | | | | | | |
| 1989 | 3,192,355 | 15.4 | 0.7 | 28.1 | 72.9 | 106.9 | 117.8 | 78.1 | 29.7 | 4.9 | 0.2 | |
| 1990 | 3,290,273 | 15.8 | 0.7 | 29.5 | 78.0 | 109.8 | 120.7 | 81.7 | 31.5 | 5.2 | 0.2 | |
| Race of child ³ : Black | | | | | | | | | | | | |
| 1960 | 602,264 | 31.9 | 4.3 | --- | --- | 295.4 | 218.6 | 137.1 | 73.9 | 21.9 | 1.1 | |
| 1970 | 572,362 | 25.3 | 5.2 | 101.4 | 204.9 | 202.7 | 136.3 | 79.6 | 41.9 | 12.5 | 1.0 | |
| 1975 | 511,581 | 20.7 | 5.1 | 85.6 | 152.4 | 142.8 | 102.2 | 53.1 | 25.6 | 7.5 | 0.5 | |
| 1980 | 589,616 | 22.1 | 4.3 | 73.6 | 138.8 | 146.3 | 109.1 | 62.9 | 24.5 | 5.8 | 0.3 | |
| 1985 | 608,193 | 21.3 | 4.6 | 70.7 | 136.4 | 140.7 | 105.9 | 61.4 | 25.5 | 4.9 | 0.3 | |
| 1986 | 621,221 | 21.5 | 4.7 | 71.1 | 140.0 | 143.5 | 106.8 | 63.0 | 25.4 | 5.0 | 0.3 | |
| 1987 | 641,567 | 21.9 | 4.8 | 74.2 | 141.4 | 149.2 | 110.2 | 64.4 | 26.2 | 5.2 | 0.2 | |
| 1988 | 671,976 | 22.6 | 4.9 | 78.1 | 149.4 | 157.1 | 114.4 | 67.1 | 27.3 | 5.5 | 0.3 | |
| 1989 | 709,395 | 23.5 | 5.2 | 84.4 | 159.4 | 165.2 | 120.9 | 70.6 | 28.6 | 5.8 | 0.3 | |
| 1990 | 724,576 | 23.8 | 4.9 | 85.4 | 161.6 | 170.0 | 122.3 | 73.3 | 30.2 | 5.9 | 0.3 | |
| Race of mother ⁴ : Black | | | | | | | | | | | | |
| 1989 | 673,124 | 22.3 | 5.1 | 81.9 | 151.9 | 156.8 | 114.4 | 66.3 | 26.7 | 5.4 | 0.3 | |
| 1990 | 684,336 | 22.4 | 4.9 | 82.3 | 152.9 | 160.2 | 115.5 | 68.7 | 28.1 | 5.5 | 0.3 | |

¹Live births per 1,000 population.

²Includes births of nonresidents of the United States.

³Live births are tabulated by race of child.

⁴Live births are tabulated by race of mother.

NOTES: Data are based on births adjusted for underregistration for 1950 and on registered births for all other years. Beginning in 1970, births to nonresidents of the United States are excluded. Final data for the 1980's have been revised based on intercensal population estimates and differ from previous editions of Health, United States. Provisional data for 1989–91 were calculated using 1980's-based postcensal population estimates. Differences between provisional and final data are due to differences in both the numerator and denominator. See Appendix I, National Center for Health Statistics and Department of Commerce.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Vital Statistics of the United States, 1990, Vol. I, Natality. Public Health Service. Washington, U.S. Government Printing Office, 1992; and Births, marriages, divorces, and deaths for 1991. Monthly Vital Statistics Report. Vol. 40, No. 12. DHHS Pub. No. (PHS) 92-1120. April 15, 1992. Public Health Service. Hyattsville, Md.

Table 4. Fertility rates, according to live-birth order and race: United States, selected years 1950–91

[Data are based on the National Vital Statistics System]

| Race and year | Total | Live-birth order | | | | |
|-------------------------------------|-------|--|------|------|------|-------------|
| | | 1 | 2 | 3 | 4 | 5 or higher |
| All races | | Live births per 1,000 women 15–44 years of age | | | | |
| 1950 | 106.2 | 33.3 | 32.1 | 18.4 | 9.2 | 13.2 |
| 1960 | 118.0 | 31.1 | 29.2 | 22.8 | 14.6 | 20.3 |
| 1970 | 87.9 | 34.2 | 24.2 | 13.6 | 7.2 | 8.7 |
| 1975 | 66.0 | 28.1 | 20.9 | 9.4 | 3.9 | 3.7 |
| 1980 | 68.4 | 29.5 | 21.8 | 10.3 | 3.9 | 2.9 |
| 1985 | 66.3 | 27.6 | 22.0 | 10.4 | 3.8 | 2.5 |
| 1986 | 65.4 | 27.2 | 21.6 | 10.3 | 3.8 | 2.5 |
| 1987 | 65.8 | 27.2 | 21.6 | 10.5 | 3.9 | 2.5 |
| 1988 | 67.3 | 27.6 | 22.0 | 10.9 | 4.1 | 2.7 |
| 1989 | 69.2 | 28.4 | 22.4 | 11.3 | 4.3 | 2.8 |
| 1990 | 70.9 | 29.0 | 22.8 | 11.7 | 4.5 | 3.0 |
| Provisional data: | | | | | | |
| 1989 ¹ | 68.8 | --- | --- | --- | --- | --- |
| 1990 ¹ | 71.1 | --- | --- | --- | --- | --- |
| 1991 | 69.6 | --- | --- | --- | --- | --- |
| Race of child ² : White | | | | | | |
| 1950 | 102.3 | 33.3 | 32.3 | 17.9 | 8.4 | 10.4 |
| 1960 | 113.2 | 30.8 | 29.2 | 22.7 | 14.1 | 16.4 |
| 1970 | 84.1 | 32.9 | 23.7 | 13.3 | 6.8 | 7.4 |
| 1975 | 62.5 | 26.7 | 20.3 | 8.8 | 3.5 | 3.1 |
| 1980 | 64.7 | 28.4 | 21.0 | 9.5 | 3.4 | 2.4 |
| 1985 | 63.2 | 26.6 | 21.5 | 9.7 | 3.3 | 2.0 |
| 1986 | 62.1 | 26.1 | 21.0 | 9.7 | 3.3 | 1.9 |
| 1987 | 62.3 | 26.0 | 21.0 | 9.8 | 3.4 | 1.9 |
| 1988 | 63.4 | 26.3 | 21.2 | 10.2 | 3.6 | 2.1 |
| 1989 | 65.1 | 27.1 | 21.5 | 10.5 | 3.8 | 2.2 |
| 1990 | 66.9 | 27.8 | 22.0 | 10.8 | 3.9 | 2.3 |
| Race of mother ³ : White | | | | | | |
| 1989 | 66.4 | 27.6 | 21.9 | 10.7 | 3.8 | 2.2 |
| 1990 | 68.3 | 28.4 | 22.4 | 11.1 | 4.0 | 2.4 |
| Race of child ² : Black | | | | | | |
| 1960 | 153.5 | 33.6 | 29.3 | 24.0 | 18.6 | 48.0 |
| 1970 | 115.4 | 43.3 | 27.1 | 16.1 | 10.0 | 18.9 |
| 1975 | 87.9 | 36.9 | 24.2 | 12.6 | 6.3 | 8.0 |
| 1980 | 88.1 | 35.2 | 25.7 | 14.5 | 6.7 | 6.0 |
| 1985 | 82.4 | 32.5 | 24.5 | 14.0 | 6.3 | 5.1 |
| 1986 | 82.6 | 32.6 | 24.6 | 14.1 | 6.4 | 4.9 |
| 1987 | 84.1 | 33.0 | 25.0 | 14.5 | 6.5 | 5.0 |
| 1988 | 87.0 | 33.7 | 25.9 | 15.1 | 6.9 | 5.2 |
| 1989 | 90.8 | 34.9 | 26.8 | 16.0 | 7.4 | 5.7 |
| 1990 | 91.9 | 34.6 | 27.1 | 16.4 | 7.7 | 6.0 |
| Race of mother ³ : Black | | | | | | |
| 1989 | 86.2 | 32.9 | 25.4 | 15.3 | 7.1 | 5.5 |
| 1990 | 86.8 | 32.4 | 25.6 | 15.6 | 7.4 | 5.8 |

¹Includes births of nonresidents of the United States.

²Live births are tabulated by race of child.

³Live births are tabulated by race of mother.

NOTES: Data are based on births adjusted for underregistration for 1950 and on registered births for all other years. Beginning in 1970, births to nonresidents of the United States are excluded. Figures for live-birth order not stated are distributed. Final data for the 1980's have been revised based on intercensal population estimates and differ from previous editions of Health, United States. Provisional data for 1989–91 were calculated using 1980's-based postcensal population estimates. Differences between provisional and final data are due to differences in both the numerator and denominator. See Appendix I, National Center for Health Statistics and Department of Commerce.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Vital Statistics of the United States, 1990, Vol. I, Natality. Public Health Service. Washington. U.S. Government Printing Office, 1992; and Births, marriages, divorces, and deaths for 1991. Monthly Vital Statistics Report. Vol. 40, No. 12. DHHS Pub. No. (PHS) 92-1120. April 15, 1992. Public Health Service. Hyattsville, Md.

Table 5. Completed fertility rates and parity distribution for women 50–54 years of age at the beginning of selected years 1930–91, according to race of child and birth cohort: United States, selected birth cohorts 1876–80 to 1937–41

[Data are based on the National Vital Statistics System]

| Race of child and birth cohort of mother | Age 50–54 as of January 1, – | Completed fertility rate ¹ | Parity (number of children born alive) | | | | | | | | |
|--|------------------------------|---------------------------------------|--|-------|-------|-------|-------|-------|-------|------|-----------|
| | | | Total | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 or more |
| | | | Distribution of women ² | | | | | | | | |
| All races | | | | | | | | | | | |
| 1876–80 | 1930 | 3,531.9 | 1,000.0 | 216.8 | 123.2 | 132.0 | 114.0 | 93.0 | 72.0 | 64.5 | 184.5 |
| 1886–90 | 1940 | 3,136.8 | 1,000.0 | 210.4 | 148.5 | 153.2 | 129.7 | 99.5 | 68.0 | 55.4 | 135.3 |
| 1896–1900 | 1950 | 2,675.9 | 1,000.0 | 194.6 | 200.7 | 195.2 | 136.6 | 87.8 | 53.5 | 41.5 | 90.1 |
| 1906–10 | 1960 | 2,285.8 | 1,000.0 | 215.6 | 225.1 | 218.7 | 131.4 | 77.5 | 44.6 | 29.2 | 57.9 |
| 1916–20 | 1970 | 2,574.0 | 1,000.0 | 149.0 | 179.0 | 251.7 | 174.6 | 102.8 | 55.8 | 32.0 | 55.1 |
| 1921–25 | 1975 | 2,857.0 | 1,000.0 | 108.5 | 152.1 | 248.7 | 197.0 | 123.5 | 68.0 | 39.5 | 62.7 |
| 1926–30 | 1980 | 3,079.2 | 1,000.0 | 105.5 | 113.7 | 226.5 | 209.6 | 143.5 | 81.9 | 47.6 | 71.7 |
| 1927–31 | 1981 | 3,118.0 | 1,000.0 | 104.1 | 107.3 | 222.4 | 212.0 | 147.6 | 84.6 | 49.2 | 72.8 |
| 1928–32 | 1982 | 3,152.7 | 1,000.0 | 101.1 | 102.2 | 219.7 | 214.7 | 151.3 | 87.0 | 50.8 | 73.2 |
| 1929–33 | 1983 | 3,182.8 | 1,000.0 | 96.3 | 98.9 | 218.0 | 217.7 | 154.9 | 89.2 | 52.0 | 73.0 |
| 1930–34 | 1984 | 3,199.6 | 1,000.0 | 91.5 | 96.8 | 217.8 | 220.9 | 157.9 | 90.7 | 52.6 | 71.8 |
| 1931–35 | 1985 | 3,201.4 | 1,000.0 | 87.2 | 96.3 | 218.8 | 224.0 | 160.0 | 91.4 | 52.5 | 69.8 |
| 1932–36 | 1986 | 3,182.4 | 1,000.0 | 84.8 | 97.0 | 221.0 | 226.9 | 160.8 | 91.3 | 51.7 | 66.5 |
| 1933–37 | 1987 | 3,146.4 | 1,000.0 | 84.0 | 98.7 | 224.4 | 229.5 | 160.6 | 90.2 | 50.2 | 62.4 |
| 1934–38 | 1988 | 3,092.6 | 1,000.0 | 85.0 | 100.8 | 229.7 | 232.0 | 159.2 | 87.7 | 48.1 | 57.5 |
| 1935–39 | 1989 | 3,026.3 | 1,000.0 | 86.9 | 103.8 | 236.6 | 234.2 | 156.6 | 84.2 | 45.6 | 52.1 |
| 1936–40 | 1990 | 2,949.7 | 1,000.0 | 89.6 | 107.1 | 245.7 | 236.1 | 152.6 | 79.9 | 42.4 | 46.6 |
| 1937–41 | 1991 | 2,863.8 | 1,000.0 | 93.1 | 111.3 | 256.5 | 237.1 | 147.1 | 75.1 | 38.8 | 41.0 |
| White | | | | | | | | | | | |
| 1876–80 | 1930 | 3,444.4 | 1,000.0 | 218.2 | 121.9 | 136.1 | 116.9 | 94.8 | 74.0 | 64.2 | 173.9 |
| 1886–90 | 1940 | 3,092.9 | 1,000.0 | 209.1 | 144.3 | 160.3 | 132.4 | 100.2 | 70.3 | 54.8 | 128.6 |
| 1896–1900 | 1950 | 2,631.5 | 1,000.0 | 193.1 | 192.1 | 205.9 | 141.4 | 89.0 | 55.2 | 41.1 | 82.2 |
| 1906–10 | 1960 | 2,248.9 | 1,000.0 | 207.9 | 218.0 | 233.2 | 138.8 | 79.6 | 44.7 | 28.0 | 49.8 |
| 1916–20 | 1970 | 2,526.7 | 1,000.0 | 134.6 | 175.9 | 268.7 | 185.1 | 106.5 | 55.3 | 30.3 | 43.6 |
| 1921–25 | 1975 | 2,793.7 | 1,000.0 | 94.2 | 150.6 | 264.6 | 208.8 | 127.9 | 67.9 | 36.9 | 49.1 |
| 1926–30 | 1980 | 2,986.0 | 1,000.0 | 94.1 | 114.1 | 240.2 | 222.3 | 148.8 | 81.2 | 44.5 | 54.8 |
| 1927–31 | 1981 | 3,022.6 | 1,000.0 | 92.5 | 108.2 | 236.8 | 223.9 | 153.1 | 83.9 | 46.0 | 55.6 |
| 1928–32 | 1982 | 3,057.9 | 1,000.0 | 89.5 | 103.2 | 232.9 | 227.6 | 157.2 | 86.5 | 47.2 | 55.9 |
| 1929–33 | 1983 | 3,087.2 | 1,000.0 | 85.0 | 99.8 | 231.2 | 230.5 | 161.1 | 88.6 | 48.2 | 55.6 |
| 1930–34 | 1984 | 3,102.5 | 1,000.0 | 81.2 | 97.6 | 230.5 | 233.6 | 164.1 | 90.0 | 48.5 | 54.5 |
| 1931–35 | 1985 | 3,101.2 | 1,000.0 | 78.5 | 96.8 | 231.1 | 236.4 | 166.0 | 90.5 | 48.2 | 52.5 |
| 1932–36 | 1986 | 3,080.0 | 1,000.0 | 77.9 | 97.0 | 232.9 | 239.2 | 166.3 | 89.9 | 47.3 | 49.5 |
| 1933–37 | 1987 | 3,042.3 | 1,000.0 | 78.6 | 98.5 | 236.2 | 241.6 | 165.5 | 88.1 | 45.5 | 46.0 |
| 1934–38 | 1988 | 2,990.0 | 1,000.0 | 80.7 | 100.6 | 241.2 | 243.9 | 163.3 | 85.2 | 43.1 | 42.0 |
| 1935–39 | 1989 | 2,926.9 | 1,000.0 | 83.2 | 103.6 | 248.4 | 245.7 | 159.8 | 81.3 | 40.3 | 37.7 |
| 1936–40 | 1990 | 2,854.7 | 1,000.0 | 86.3 | 107.1 | 257.6 | 247.1 | 154.9 | 76.5 | 37.2 | 33.3 |
| 1937–41 | 1991 | 2,773.8 | 1,000.0 | 90.2 | 111.5 | 268.6 | 247.4 | 148.5 | 71.1 | 33.6 | 29.1 |
| All other | | | | | | | | | | | |
| 1876–80 | 1930 | 4,254.7 | 1,000.0 | 207.7 | 134.0 | 99.5 | 87.4 | 79.9 | 54.7 | 64.8 | 272.0 |
| 1886–90 | 1940 | 3,451.4 | 1,000.0 | 231.9 | 175.9 | 105.9 | 96.6 | 93.3 | 52.4 | 58.0 | 186.0 |
| 1896–1900 | 1950 | 2,967.7 | 1,000.0 | 227.4 | 255.0 | 114.1 | 97.5 | 74.3 | 38.8 | 42.6 | 150.3 |
| 1906–10 | 1960 | 2,529.1 | 1,000.0 | 287.5 | 266.6 | 114.5 | 73.2 | 60.1 | 43.5 | 35.6 | 119.0 |
| 1916–20 | 1970 | 2,924.2 | 1,000.0 | 266.2 | 202.0 | 120.9 | 91.2 | 72.5 | 57.8 | 44.9 | 144.5 |
| 1921–25 | 1975 | 3,316.0 | 1,000.0 | 217.7 | 163.5 | 131.7 | 108.2 | 89.0 | 68.7 | 56.4 | 164.8 |
| 1926–30 | 1980 | 3,718.9 | 1,000.0 | 187.4 | 110.8 | 130.2 | 121.0 | 106.4 | 85.7 | 69.3 | 189.2 |
| 1927–31 | 1981 | 3,756.0 | 1,000.0 | 185.7 | 102.5 | 129.1 | 123.0 | 109.1 | 88.1 | 71.5 | 191.0 |
| 1928–32 | 1982 | 3,779.4 | 1,000.0 | 181.6 | 96.7 | 129.4 | 126.5 | 111.4 | 90.2 | 73.5 | 190.7 |
| 1929–33 | 1983 | 3,805.1 | 1,000.0 | 172.4 | 93.2 | 132.3 | 130.1 | 114.4 | 93.1 | 75.1 | 189.4 |
| 1930–34 | 1984 | 3,822.2 | 1,000.0 | 160.3 | 92.2 | 136.0 | 135.3 | 117.5 | 95.5 | 76.9 | 186.3 |
| 1931–35 | 1985 | 3,836.2 | 1,000.0 | 145.1 | 93.4 | 140.8 | 140.4 | 121.8 | 98.2 | 78.4 | 181.9 |
| 1932–36 | 1986 | 3,830.3 | 1,000.0 | 131.0 | 96.4 | 145.5 | 145.5 | 125.9 | 100.5 | 79.9 | 175.3 |
| 1933–37 | 1987 | 3,805.9 | 1,000.0 | 119.4 | 99.8 | 150.3 | 150.2 | 129.9 | 102.4 | 80.6 | 167.4 |
| 1934–38 | 1988 | 3,745.8 | 1,000.0 | 113.8 | 102.8 | 154.9 | 155.3 | 132.7 | 102.7 | 80.6 | 157.2 |
| 1935–39 | 1989 | 3,661.6 | 1,000.0 | 111.5 | 105.4 | 160.6 | 160.4 | 135.3 | 102.4 | 79.2 | 145.2 |
| 1936–40 | 1990 | 3,556.1 | 1,000.0 | 111.8 | 107.6 | 168.2 | 165.6 | 137.2 | 101.3 | 76.9 | 131.4 |
| 1937–41 | 1991 | 3,438.0 | 1,000.0 | 112.7 | 110.6 | 177.6 | 170.6 | 139.0 | 99.5 | 73.3 | 116.7 |

¹Number of children born alive to each 1,000 women who have completed their reproductive histories (women 50–54 years of age).

²Proportional distribution of each 1,000 women in the cohort by the number of children born alive to them.

NOTES: Example of use of table—For every 1,000 women 50–54 years of age in 1980, an average of 3,079.2 children were born alive (about 3 children per woman). About 10 percent of the women in this cohort reached 50–54 years of age having had no children, about 11 percent had 1 child, and about 12 percent had 6 children or more.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Fertility Tables for Birth Cohorts by Color, United States, 1917–73 by R. Heuser. DHEW Pub. No. (HRA) 76-1152. Health Resources Administration. Washington. U.S. Government Printing Office, Apr. 1976; Data computed from Vital Statistics of the United States, 1990, Vol. I, Natality. Public Health Service. Washington. U.S. Government Printing Office, 1992.

Table 6. Lifetime births expected by currently married women and percent of expected births already born, according to age and race: United States, selected years 1967-90

[Data are based on reporting of birth expectations by currently married women of the civilian noninstitutionalized population]

| Race and year | All ages 18-34 years | 18-19 years | 20-21 years | 22-24 years | 25-29 years | 30-34 years |
|---|-------------------------|----------------|----------------|----------------|----------------|----------------|
| Expected births per currently married woman | | | | | | |
| All races | | | | | | |
| 1967..... | 3.1 | 2.7 | 2.9 | 2.9 | 3.0 | 3.3 |
| 1971..... | 2.6 | 2.3 | 2.4 | 2.4 | 2.6 | 3.0 |
| 1975..... | 2.3 | 2.2 | 2.2 | 2.2 | 2.3 | 2.6 |
| 1980..... | 2.2 | 2.1 | 2.2 | 2.1 | 2.2 | 2.2 |
| 1985..... | 2.2 | 2.1 | 2.2 | 2.2 | 2.2 | 2.2 |
| 1986..... | 2.3 | 2.2 | 2.2 | 2.3 | 2.3 | 2.2 |
| 1987..... | 2.2 | 2.1 | 2.2 | 2.2 | 2.2 | 2.2 |
| 1988..... | 2.2 | 2.1 | 2.2 | 2.2 | 2.3 | 2.2 |
| 1990..... | 2.3 | 2.1 | 2.2 | 2.3 | 2.3 | 2.3 |
| White | | | | | | |
| 1967..... | 3.0 | 2.7 | 3.0 | 2.8 | 3.0 | 3.2 |
| 1971..... | 2.6 | 2.3 | 2.4 | 2.4 | 2.6 | 2.9 |
| 1975..... | 2.3 | 2.2 | 2.1 | 2.1 | 2.2 | 2.6 |
| 1980..... | 2.2 | 2.1 | 2.2 | 2.1 | 2.1 | 2.2 |
| 1985..... | 2.2 | 2.0 | 2.2 | 2.2 | 2.2 | 2.1 |
| 1986..... | 2.2 | 2.1 | 2.2 | 2.3 | 2.2 | 2.2 |
| 1987..... | 2.2 | 2.0 | 2.2 | 2.2 | 2.2 | 2.2 |
| 1988..... | 2.2 | 2.1 | 2.2 | 2.2 | 2.3 | 2.2 |
| 1990..... | 2.3 | 2.1 | 2.2 | 2.3 | 2.3 | 2.3 |
| Black | | | | | | |
| 1967..... | 3.5 | * | 2.5 | 3.0 | 3.4 | 4.3 |
| 1971..... | 3.1 | * | 2.4 | 2.8 | 3.1 | 3.7 |
| 1975..... | 2.8 | * | 2.6 | 2.5 | 2.6 | 3.2 |
| 1980..... | 2.4 | * | 2.2 | 2.1 | 2.4 | 2.5 |
| 1985..... | 2.4 | * | * | 2.3 | 2.3 | 2.5 |
| 1986..... | 2.4 | * | * | 2.4 | 2.3 | 2.6 |
| 1987..... | 2.3 | * | * | 2.2 | 2.3 | 2.3 |
| 1988..... | 2.3 | * | * | 2.2 | 2.3 | 2.3 |
| 1990..... | 2.5 | 2.1 | 2.4 | 2.6 | 2.4 | 2.6 |
| Percent of expected births already born | | | | | | |
| All races | | | | | | |
| 1967..... | 70.2 | 26.9 | 33.2 | 47.8 | 76.1 | 92.7 |
| 1971..... | 69.4 | 25.3 | 32.5 | 46.7 | 74.4 | 93.7 |
| 1975..... | 68.8 | 27.5 | 30.7 | 43.9 | 70.9 | 93.0 |
| 1980..... | 67.0 | 29.5 | 32.9 | 44.9 | 64.7 | 89.7 |
| 1985..... | 64.2 | 27.0 | 30.9 | 41.8 | 60.2 | 84.4 |
| 1986..... | 64.7 | 29.0 | 30.4 | 41.8 | 59.5 | 84.8 |
| 1987..... | 66.5 | 27.8 | 36.4 | 43.0 | 62.0 | 83.8 |
| 1988..... | 65.3 | 25.0 | 33.4 | 40.9 | 58.9 | 83.6 |
| 1990..... | 64.5 | 29.9 | 33.1 | 44.2 | 57.5 | 81.1 |
| White | | | | | | |
| 1967..... | 68.9 | 24.2 | 30.1 | 46.2 | 75.1 | 92.9 |
| 1971..... | 68.9 | 23.7 | 31.4 | 45.3 | 74.1 | 93.8 |
| 1975..... | 68.2 | 24.9 | 29.4 | 42.3 | 70.5 | 93.2 |
| 1980..... | 66.3 | 28.6 | 31.8 | 43.5 | 64.0 | 90.0 |
| 1985..... | 63.3 | 25.7 | 30.6 | 40.4 | 59.4 | 84.1 |
| 1986..... | 63.8 | 28.6 | 28.7 | 40.5 | 58.6 | 84.8 |
| 1987..... | 65.6 | 27.0 | 36.0 | 42.0 | 60.9 | 83.6 |
| 1988..... | 64.4 | 24.0 | 32.6 | 38.9 | 58.2 | 83.2 |
| 1990..... | 63.6 | 26.8 | 30.0 | 43.1 | 56.2 | 80.8 |
| Black | | | | | | |
| 1967..... | 82.8 | * | 65.7 | 67.9 | 87.9 | 92.3 |
| 1971..... | 74.8 | * | 43.0 | 57.5 | 81.0 | 93.4 |
| 1975..... | 76.4 | * | 43.3 | 61.0 | 78.2 | 91.8 |
| 1980..... | 74.7 | * | 46.1 | 58.9 | 73.8 | 90.9 |
| 1985..... | 77.1 | * | * | 62.3 | 72.8 | 91.4 |
| 1986..... | 75.7 | * | * | 59.7 | 70.2 | 90.0 |
| 1987..... | 77.8 | * | * | 55.4 | 76.6 | 89.7 |
| 1988..... | 75.5 | * | * | 61.4 | 70.1 | 89.9 |
| 1990..... | 74.1 | 49.0 | 54.8 | 56.6 | 71.9 | 85.0 |

*Estimates based on 50 or fewer subjects are not shown.

NOTE: Data for 1989 are not available.

SOURCE: U.S. Bureau of the Census: Population characteristics. Current Population Reports. Series P-20, Nos. 301, 375, 406, 421, 427, 436, and 454. Washington. U.S. Government Printing Office, Nov. 1976, Oct. 1982, June 1986, Dec. 1987, May 1988, May 1989, and Oct. 1991.

Table 7. Live births, according to detailed race of mother and Hispanic origin of mother: United States, selected years 1970–90

[Data are based on the National Vital Statistics System]

| Race of mother and Hispanic origin of mother | 1970 | 1975 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total number of live births | | | | | | | | | |
| All races..... | 3,731,386 | 3,144,198 | 3,612,258 | 3,760,561 | 3,756,547 | 3,809,394 | 3,909,510 | 4,040,958 | 4,158,212 |
| White..... | 3,109,956 | 2,576,818 | 2,936,351 | 3,037,913 | 3,019,175 | 3,043,828 | 3,102,083 | 3,192,355 | 3,290,273 |
| Black..... | 561,992 | 496,829 | 568,080 | 581,824 | 592,910 | 611,173 | 638,562 | 673,124 | 684,336 |
| American Indian or Alaskan Native | 22,264 | 22,690 | 29,389 | 34,037 | 34,169 | 35,322 | 37,088 | 39,478 | 39,051 |
| Asian or Pacific Islander | --- | --- | 74,355 | 104,606 | 107,797 | 116,560 | 129,035 | 133,075 | 141,635 |
| Chinese | 7,044 | 7,778 | 11,671 | 16,405 | 16,701 | 17,818 | 21,322 | 20,982 | 22,737 |
| Japanese | 7,744 | 6,725 | 7,482 | 8,035 | 7,938 | 8,054 | 8,658 | 8,689 | 8,674 |
| Filipino | 8,066 | 10,359 | 13,968 | 20,058 | 21,237 | 22,134 | 23,207 | 24,585 | 25,770 |
| Other Asian or Pacific Islander ¹ | --- | --- | 41,234 | 60,108 | 61,921 | 68,554 | 75,848 | 78,819 | 84,454 |
| Hispanic origin (selected States) ^{2,3} | --- | --- | 307,163 | 372,814 | 389,048 | 406,153 | 449,604 | 532,249 | 595,073 |
| Mexican American | --- | --- | 215,439 | 242,976 | 246,174 | 251,189 | 271,170 | 327,233 | 385,640 |
| Puerto Rican | --- | --- | 33,671 | 35,147 | 36,588 | 38,139 | 46,232 | 56,229 | 58,807 |
| Cuban | --- | --- | 7,163 | 10,024 | 9,924 | 9,987 | 10,189 | 10,842 | 11,311 |
| Central and South American | --- | --- | 21,268 | 40,985 | 45,026 | 50,350 | 57,610 | 72,443 | 83,008 |
| Other and unknown Hispanic | --- | --- | 29,622 | 43,682 | 51,336 | 56,488 | 64,403 | 65,502 | 56,307 |
| Non-Hispanic white (selected States) ² | --- | --- | 1,245,221 | 1,394,729 | 1,388,251 | 1,399,129 | 1,664,239 | 2,526,367 | 2,626,500 |
| Non-Hispanic black (selected States) ² | --- | --- | 299,646 | 336,029 | 342,179 | 355,644 | 434,843 | 611,269 | 661,701 |

¹Includes Hawaiians and part Hawaiians.

²Trend data for Hispanics and non-Hispanics are affected by expansion of the reporting area for an Hispanic-origin item on the birth certificate and by immigration. These two factors affect numbers of events, composition of the Hispanic population, and maternal and infant health characteristics. The number of States in the reporting area increased from 22 in 1980, to 23 plus the District of Columbia (D.C.) in 1983, 30 plus D.C. in 1988, 47 plus D.C. in 1989, and 48 plus D.C. in 1990 (see Appendix I, National Vital Statistics System).

³Includes mothers of all races.

NOTES: The race groups, white and black, include persons of both Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics: Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics.

Table 8. Low-birth-weight live births, according to detailed race of mother and Hispanic origin of mother: United States, selected years 1970–90

[Data are based on the National Vital Statistics System]

| Birth weight, race of mother, and Hispanic origin of mother | 1970 | 1975 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|
| Low birth weight (less than 2,500 grams) | | | | | | | | | | | | | Percent of live births |
| All mothers | 7.93 | 7.38 | 6.84 | 6.81 | 6.75 | 6.82 | 6.72 | 6.75 | 6.81 | 6.90 | 6.93 | 7.05 | 6.97 |
| White | 6.85 | 6.27 | 5.72 | 5.69 | 5.64 | 5.69 | 5.61 | 5.65 | 5.66 | 5.70 | 5.67 | 5.72 | 5.70 |
| Black | 13.90 | 13.19 | 12.69 | 12.72 | 12.61 | 12.82 | 12.58 | 12.65 | 12.77 | 12.98 | 13.26 | 13.51 | 13.25 |
| American Indian or Alaskan Native | 7.97 | 6.41 | 6.44 | 6.27 | 6.06 | 6.17 | 6.15 | 5.86 | 5.94 | 6.15 | 6.00 | 6.26 | 6.11 |
| Asian or Pacific Islander | — | — | 6.68 | 6.74 | 6.74 | 6.57 | 6.57 | 6.16 | 6.47 | 6.41 | 6.31 | 6.51 | 6.45 |
| Chinese | 6.67 | 5.29 | 5.21 | 5.55 | 5.26 | 5.07 | 5.05 | 4.98 | 4.85 | 5.02 | 4.63 | 4.89 | 4.69 |
| Japanese | 9.03 | 7.47 | 6.60 | 6.22 | 6.09 | 6.05 | 5.91 | 6.21 | 6.03 | 6.49 | 6.69 | 6.67 | 6.16 |
| Filipino | 10.02 | 8.08 | 7.40 | 7.50 | 7.15 | 7.28 | 7.78 | 6.95 | 7.42 | 7.30 | 7.15 | 7.35 | 7.30 |
| Other Asian or Pacific Islander ¹ | — | — | 6.87 | 6.89 | 7.03 | 6.77 | 6.65 | 6.22 | 6.64 | 6.47 | 6.48 | 6.66 | 6.69 |
| Hispanic origin (selected States) ^{2,3} | — | — | 6.12 | 6.12 | 6.23 | 6.29 | 6.15 | 6.16 | 6.13 | 6.24 | 6.17 | 6.18 | 6.06 |
| Mexican American | — | — | 5.62 | 5.61 | 5.72 | 5.77 | 5.68 | 5.77 | 5.62 | 5.74 | 5.60 | 5.60 | 5.55 |
| Puerto Rican | — | — | 8.95 | 9.01 | 9.11 | 8.90 | 8.88 | 8.69 | 9.22 | 9.30 | 9.42 | 9.50 | 8.99 |
| Cuban | — | — | 5.62 | 5.83 | 5.76 | 5.65 | 5.86 | 6.02 | 5.46 | 5.89 | 5.94 | 5.77 | 5.67 |
| Central and South American | — | — | 5.76 | 5.73 | 5.61 | 6.20 | 5.81 | 5.68 | 5.69 | 5.74 | 5.58 | 5.81 | 5.84 |
| Other and unknown Hispanic | — | — | 6.96 | 7.00 | 7.30 | 7.23 | 6.89 | 6.83 | 6.87 | 6.91 | 6.85 | 6.74 | 6.87 |
| Non-Hispanic white (selected States) ² | — | — | 5.67 | 5.63 | 5.62 | 5.64 | 5.53 | 5.60 | 5.58 | 5.63 | 5.62 | 5.62 | 5.61 |
| Non-Hispanic black (selected States) ² | — | — | 12.71 | 12.79 | 12.60 | 12.83 | 12.54 | 12.61 | 12.85 | 13.10 | 13.28 | 13.61 | 13.32 |
| Very low birth weight (less than 1,500 grams) | | | | | | | | | | | | | — |
| All mothers | 1.17 | 1.16 | 1.15 | 1.16 | 1.18 | 1.19 | 1.19 | 1.21 | 1.21 | 1.24 | 1.24 | 1.28 | 1.27 |
| White | 0.95 | 0.92 | 0.90 | 0.91 | 0.92 | 0.93 | 0.93 | 0.94 | 0.93 | 0.94 | 0.93 | 0.95 | 0.95 |
| Black | 2.40 | 2.40 | 2.48 | 2.52 | 2.56 | 2.60 | 2.60 | 2.71 | 2.73 | 2.79 | 2.86 | 2.95 | 2.92 |
| American Indian or Alaskan Native | 0.98 | 0.95 | 0.92 | 0.89 | 1.06 | 1.07 | 1.02 | 1.01 | 0.99 | 1.13 | 1.00 | 1.00 | 1.01 |
| Asian or Pacific Islander | — | — | 0.92 | 0.93 | 0.91 | 0.88 | 0.93 | 0.85 | 0.86 | 0.83 | 0.84 | 0.90 | 0.87 |
| Chinese | 0.80 | 0.52 | 0.66 | 0.68 | 0.70 | 0.77 | 0.70 | 0.57 | 0.63 | 0.65 | 0.57 | 0.61 | 0.51 |
| Japanese | 1.48 | 0.89 | 0.94 | 0.75 | 0.94 | 0.63 | 0.81 | 0.84 | 0.86 | 0.80 | 0.92 | 0.86 | 0.73 |
| Filipino | 1.08 | 0.93 | 0.99 | 1.03 | 0.89 | 0.98 | 0.97 | 0.86 | 0.87 | 0.94 | 0.91 | 1.12 | 1.05 |
| Other Asian or Pacific Islander ¹ | — | — | 0.97 | 0.99 | 0.95 | 0.90 | 0.98 | 0.92 | 0.92 | 0.84 | 0.89 | 0.91 | 0.92 |
| Hispanic origin (selected States) ^{2,3} | — | — | 0.98 | 0.98 | 0.99 | 1.03 | 1.01 | 1.01 | 1.02 | 1.06 | 1.01 | 1.05 | 1.03 |
| Mexican American | — | — | 0.92 | 0.92 | 0.93 | 0.96 | 0.93 | 0.97 | 0.94 | 0.96 | 0.89 | 0.94 | 0.92 |
| Puerto Rican | — | — | 1.29 | 1.43 | 1.54 | 1.46 | 1.49 | 1.30 | 1.47 | 1.63 | 1.61 | 1.71 | 1.62 |
| Cuban | — | — | 1.02 | 1.17 | 0.90 | 0.97 | 1.04 | 1.18 | 1.09 | 0.97 | 1.17 | 1.13 | 1.20 |
| Central and South American | — | — | 0.99 | 0.93 | 0.83 | 0.99 | 1.04 | 1.01 | 1.04 | 1.02 | 0.97 | 1.05 | 1.05 |
| Other and unknown Hispanic | — | — | 1.01 | 0.93 | 1.03 | 1.08 | 1.05 | 0.96 | 1.08 | 1.15 | 1.11 | 1.04 | 1.09 |
| Non-Hispanic white (selected States) ² | — | — | 0.86 | 0.87 | 0.89 | 0.90 | 0.88 | 0.90 | 0.89 | 0.91 | 0.89 | 0.93 | 0.93 |
| Non-Hispanic black (selected States) ² | — | — | 2.46 | 2.50 | 2.53 | 2.57 | 2.56 | 2.66 | 2.68 | 2.73 | 2.82 | 2.97 | 2.93 |

¹Includes Hawaiians and part Hawaiians.

²Trend data for Hispanics and non-Hispanics are affected by expansion of the reporting area for an Hispanic-origin item on the birth certificate and by immigration. These two factors affect numbers of events, composition of the Hispanic population, and maternal and infant health characteristics. The number of States in the reporting area increased from 22 in 1980, to 23 plus the District of Columbia (D.C.) in 1983, 30 plus D.C. in 1988, 47 plus D.C. in 1989, and 48 plus D.C. in 1990 (see Appendix I, National Vital Statistics System).

³Includes mothers of all races.

NOTES: The race groups, white and black, include persons of both Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics: Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics.

Table 9 (page 1 of 2). Prenatal care and maternal education for live births, according to detailed race of mother and Hispanic origin of mother: United States, selected years 1970–90

[Data are based on the National Vital Statistics System]

| Prenatal care, education, race of mother, and Hispanic origin of mother | 1970 | 1975 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|---|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Prenatal care began during 1st trimester | Percent of live births | | | | | | | | | | | | |
| All mothers..... | 68.0 | 72.4 | 76.3 | 76.3 | 76.1 | 76.2 | 76.5 | 76.2 | 75.9 | 76.0 | 75.9 | 75.5 | 75.8 |
| White..... | 72.3 | 75.8 | 79.2 | 79.3 | 79.2 | 79.3 | 79.6 | 79.3 | 79.1 | 79.3 | 79.3 | 78.9 | 79.2 |
| Black..... | 44.2 | 55.5 | 62.4 | 62.1 | 61.1 | 61.2 | 61.9 | 61.5 | 61.2 | 60.8 | 60.7 | 60.0 | 60.6 |
| American Indian or Alaskan Native..... | 38.2 | 45.4 | 55.8 | 56.6 | 57.7 | 56.6 | 57.4 | 57.5 | 58.2 | 57.6 | 58.1 | 57.9 | 57.9 |
| Asian or Pacific Islander..... | — | — | 73.7 | 73.2 | 73.3 | 73.9 | 74.7 | 74.1 | 74.9 | 75.0 | 75.5 | 74.8 | 75.1 |
| Chinese..... | 71.8 | 76.7 | 82.6 | 82.6 | 81.9 | 80.4 | 81.5 | 82.0 | 82.2 | 81.5 | 82.3 | 81.5 | 81.3 |
| Japanese..... | 78.1 | 82.7 | 86.1 | 85.2 | 85.6 | 86.6 | 87.0 | 84.7 | 85.7 | 86.6 | 86.3 | 86.2 | 87.0 |
| Filipino..... | 60.6 | 70.6 | 77.3 | 77.5 | 76.8 | 77.4 | 77.8 | 76.5 | 78.2 | 77.9 | 78.4 | 77.6 | 77.1 |
| Other Asian or Pacific Islander ¹ | — | — | 67.6 | 67.4 | 68.9 | 69.9 | 70.2 | 69.7 | 70.3 | 71.0 | 71.5 | 70.8 | 71.4 |
| Hispanic origin (selected States) ^{2,3} | — | — | 60.2 | 60.6 | 61.0 | 61.0 | 61.5 | 61.2 | 60.3 | 61.0 | 61.3 | 59.5 | 60.2 |
| Mexican American..... | — | — | 59.6 | 60.1 | 60.7 | 60.2 | 60.4 | 60.0 | 58.9 | 60.0 | 58.3 | 56.7 | 57.8 |
| Puerto Rican..... | — | — | 55.1 | 54.2 | 54.5 | 55.1 | 57.4 | 58.3 | 57.2 | 57.4 | 63.2 | 62.7 | 63.5 |
| Cuban..... | — | — | 82.7 | 80.1 | 79.3 | 81.2 | 82.2 | 82.5 | 81.8 | 83.1 | 83.4 | 83.2 | 84.8 |
| Central and South American..... | — | — | 58.8 | 58.3 | 58.5 | 59.3 | 61.1 | 60.6 | 58.8 | 59.1 | 62.8 | 60.8 | 61.5 |
| Other and unknown Hispanic..... | — | — | 66.4 | 66.9 | 66.0 | 66.6 | 66.7 | 65.8 | 66.6 | 65.5 | 67.3 | 66.0 | 66.4 |
| Non-Hispanic white (selected States) ² | — | — | 81.2 | 81.3 | 81.1 | 81.3 | 81.6 | 81.4 | 81.5 | 81.7 | 81.8 | 82.7 | 83.3 |
| Non-Hispanic black (selected States) ² | — | — | 60.7 | 60.7 | 59.7 | 59.9 | 60.6 | 60.1 | 60.1 | 60.0 | 60.4 | 59.9 | 60.7 |
| Prenatal care began during 3d trimester or no prenatal care | Percent of live births | | | | | | | | | | | | |
| All mothers..... | 7.9 | 6.0 | 5.1 | 5.2 | 5.5 | 5.6 | 5.6 | 5.7 | 6.0 | 6.1 | 6.1 | 6.4 | 6.1 |
| White..... | 6.3 | 5.0 | 4.3 | 4.3 | 4.5 | 4.6 | 4.7 | 4.8 | 5.0 | 5.0 | 5.0 | 5.2 | 4.9 |
| Black..... | 16.6 | 10.5 | 8.9 | 9.2 | 9.7 | 9.8 | 9.7 | 10.2 | 10.7 | 11.2 | 11.0 | 11.9 | 11.3 |
| American Indian or Alaskan Native..... | 28.9 | 22.4 | 15.2 | 14.7 | 14.0 | 14.4 | 13.8 | 12.9 | 12.9 | 13.1 | 13.2 | 13.4 | 12.9 |
| Asian or Pacific Islander..... | — | — | 6.5 | 6.6 | 6.6 | 6.5 | 6.4 | 6.5 | 6.2 | 6.3 | 5.9 | 6.1 | 5.8 |
| Chinese..... | 6.5 | 4.4 | 3.7 | 3.8 | 3.5 | 4.6 | 4.2 | 4.4 | 4.2 | 4.2 | 3.4 | 3.6 | 3.4 |
| Japanese..... | 4.1 | 2.7 | 2.1 | 2.5 | 2.5 | 2.4 | 2.6 | 3.1 | 3.1 | 2.8 | 3.3 | 2.7 | 2.9 |
| Filipino..... | 7.2 | 4.1 | 4.0 | 3.6 | 3.8 | 4.1 | 4.3 | 4.8 | 4.5 | 4.9 | 4.8 | 4.7 | 4.5 |
| Other Asian or Pacific Islander ¹ | — | — | 9.0 | 9.0 | 8.5 | 8.2 | 8.1 | 8.1 | 7.8 | 7.8 | 7.3 | 7.6 | 7.2 |
| Hispanic origin (selected States) ^{2,3} | — | — | 12.0 | 11.6 | 12.1 | 12.5 | 12.6 | 12.4 | 13.0 | 12.7 | 12.1 | 13.0 | 12.0 |
| Mexican American..... | — | — | 11.8 | 11.6 | 12.0 | 12.7 | 13.0 | 12.9 | 13.4 | 13.0 | 13.9 | 14.6 | 13.2 |
| Puerto Rican..... | — | — | 16.2 | 15.8 | 17.2 | 17.4 | 16.3 | 15.5 | 17.4 | 17.1 | 10.2 | 11.3 | 10.6 |
| Cuban..... | — | — | 3.9 | 4.2 | 4.9 | 4.0 | 4.0 | 3.7 | 4.2 | 3.9 | 3.6 | 4.0 | 2.8 |
| Central and South American..... | — | — | 13.1 | 12.4 | 13.4 | 13.3 | 12.6 | 12.5 | 13.8 | 13.5 | 9.9 | 11.9 | 10.9 |
| Other and unknown Hispanic..... | — | — | 9.2 | 8.3 | 9.3 | 9.0 | 9.1 | 9.4 | 9.0 | 9.3 | 8.8 | 9.3 | 8.5 |
| Non-Hispanic white (selected States) ² | — | — | 3.5 | 3.6 | 3.8 | 3.9 | 3.9 | 4.0 | 4.1 | 4.1 | 4.1 | 3.7 | 3.4 |
| Non-Hispanic black (selected States) ² | — | — | 9.7 | 9.9 | 10.6 | 10.7 | 10.6 | 10.9 | 11.4 | 11.8 | 11.0 | 12.0 | 11.2 |
| Education of mother less than 12 years | Percent of live births | | | | | | | | | | | | |
| All mothers..... | 30.8 | 28.6 | 23.7 | 22.9 | 22.3 | 21.7 | 20.9 | 20.6 | 20.4 | 20.2 | 20.4 | 23.2 | 23.8 |
| White..... | 27.1 | 25.1 | 20.8 | 19.9 | 19.3 | 18.7 | 18.1 | 17.8 | 17.7 | 17.4 | 17.6 | 21.6 | 22.4 |
| Black..... | 51.2 | 45.3 | 36.4 | 35.7 | 35.1 | 34.5 | 33.4 | 32.6 | 31.9 | 31.6 | 31.4 | 30.4 | 30.2 |
| American Indian or Alaskan Native..... | 60.5 | 52.7 | 44.2 | 43.0 | 41.8 | 41.3 | 40.0 | 39.0 | 39.2 | 38.5 | 37.9 | 37.2 | 36.4 |
| Asian or Pacific Islander..... | — | — | 21.0 | 23.0 | 23.3 | 21.7 | 20.2 | 19.4 | 17.9 | 17.9 | 17.9 | 19.5 | 20.0 |
| Chinese..... | 23.0 | 16.5 | 15.2 | 16.1 | 17.3 | 18.2 | 18.2 | 15.5 | 12.3 | 13.5 | 14.2 | 14.9 | 15.8 |
| Japanese..... | 11.8 | 9.1 | 5.0 | 4.7 | 4.3 | 4.0 | 3.5 | 4.8 | 4.0 | 3.1 | 3.5 | 3.3 | 3.5 |
| Filipino..... | 26.4 | 22.3 | 16.4 | 16.0 | 15.6 | 15.0 | 13.4 | 13.9 | 12.6 | 12.3 | 11.8 | 10.2 | 10.3 |
| Other Asian or Pacific Islander ¹ | — | — | 26.4 | 29.3 | 29.3 | 26.6 | 24.8 | 23.5 | 22.2 | 21.7 | 21.7 | 26.1 | 26.2 |
| Hispanic origin (selected States) ^{2,3} | — | — | 51.1 | 49.5 | 48.0 | 46.5 | 44.9 | 44.5 | 43.4 | 42.8 | 42.5 | 52.8 | 53.9 |
| Mexican American..... | — | — | 62.8 | 61.9 | 60.5 | 59.4 | 58.7 | 59.0 | 58.9 | 58.4 | 56.9 | 61.3 | 61.4 |
| Puerto Rican..... | — | — | 55.3 | 53.9 | 52.9 | 50.0 | 48.2 | 46.6 | 44.8 | 44.3 | 45.2 | 43.7 | 42.7 |
| Cuban..... | — | — | 24.1 | 26.9 | 27.0 | 24.6 | 22.4 | 21.1 | 19.7 | 18.7 | 18.1 | 17.9 | 17.8 |
| Central and South American..... | — | — | 41.2 | 39.3 | 39.2 | 39.5 | 37.1 | 37.0 | 35.9 | 34.1 | 31.8 | 43.6 | 44.2 |
| Other and unknown Hispanic..... | — | — | 40.1 | 39.5 | 38.7 | 38.9 | 36.0 | 36.5 | 33.7 | 34.3 | 34.1 | 34.5 | 33.3 |
| Non-Hispanic white (selected States) ² | — | — | 18.3 | 17.4 | 17.3 | 16.7 | 15.9 | 15.8 | 15.7 | 15.3 | 16.7 | 15.3 | 15.2 |
| Non-Hispanic black (selected States) ² | — | — | 37.4 | 36.6 | 36.4 | 35.4 | 34.2 | 33.5 | 32.6 | 32.2 | 31.8 | 29.9 | 30.0 |

See footnotes at end of table.

Table 9 (page 2 of 2). Prenatal care and maternal education for live births, according to detailed race of mother and Hispanic origin of mother: United States, selected years 1970–90

[Data are based on the National Vital Statistics System]

| Prenatal care, education, race of mother, and Hispanic origin of mother | 1970 | 1975 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Education of mother 16 years or more | | | | | | | | | | | | | |
| All mothers..... | 8.6 | 11.4 | 14.0 | 14.8 | 15.3 | 15.8 | 16.4 | 16.7 | 17.1 | 17.6 | 17.7 | 17.4 | 17.5 |
| White..... | 9.6 | 12.7 | 15.5 | 16.4 | 16.9 | 17.6 | 18.3 | 18.6 | 19.2 | 19.8 | 20.1 | 19.2 | 19.3 |
| Black..... | 2.8 | 4.3 | 6.2 | 6.5 | 6.7 | 6.7 | 6.9 | 7.0 | 7.1 | 7.1 | 7.1 | 7.2 | 7.2 |
| American Indian or Alaskan Native..... | 2.7 | 2.2 | 3.5 | 3.7 | 3.6 | 3.4 | 3.6 | 3.7 | 3.8 | 3.7 | 3.7 | 4.3 | 4.4 |
| Asian or Pacific Islander..... | --- | --- | 30.8 | 29.4 | 29.3 | 30.0 | 30.4 | 30.3 | 31.4 | 32.0 | 31.7 | 31.2 | 31.0 |
| Chinese..... | 34.0 | 37.8 | 41.5 | 40.8 | 38.2 | 38.0 | 36.4 | 35.2 | 36.8 | 36.8 | 36.4 | 40.5 | 40.3 |
| Japanese..... | 20.7 | 30.6 | 36.8 | 35.2 | 38.4 | 38.8 | 39.8 | 38.1 | 41.3 | 41.8 | 42.3 | 43.6 | 44.1 |
| Filipino..... | 28.1 | 36.6 | 37.1 | 36.8 | 36.6 | 35.8 | 35.8 | 35.2 | 35.4 | 36.9 | 35.5 | 36.0 | 34.5 |
| Other Asian or Pacific Islander ¹ | --- | --- | 25.5 | 24.2 | 24.2 | 25.6 | 26.4 | 27.1 | 28.0 | 28.8 | 28.6 | 25.3 | 25.7 |
| Hispanic origin (selected States) ^{2,3} | --- | --- | 4.2 | 4.6 | 5.0 | 5.2 | 5.7 | 6.0 | 6.5 | 6.6 | 7.0 | 5.1 | 5.1 |
| Mexican American..... | --- | --- | 2.2 | 2.4 | 2.8 | 2.8 | 2.9 | 3.0 | 3.3 | 3.2 | 3.7 | 3.2 | 3.3 |
| Puerto Rican..... | --- | --- | 3.0 | 3.4 | 3.7 | 3.9 | 4.3 | 4.6 | 4.9 | 5.4 | 5.3 | 6.3 | 6.5 |
| Cuban..... | --- | --- | 11.6 | 10.7 | 11.2 | 12.4 | 13.7 | 15.0 | 15.4 | 17.3 | 18.2 | 19.2 | 20.4 |
| Central and South American..... | --- | --- | 6.1 | 6.8 | 7.1 | 6.6 | 7.6 | 8.1 | 8.4 | 8.8 | 10.1 | 8.2 | 8.6 |
| Other and unknown Hispanic..... | --- | --- | 5.5 | 6.0 | 6.0 | 6.4 | 7.0 | 7.2 | 8.7 | 7.6 | 8.0 | 7.7 | 8.5 |
| Non-Hispanic white (selected States) ² | --- | --- | 16.4 | 17.2 | 17.6 | 18.3 | 18.9 | 19.3 | 19.8 | 20.4 | 20.4 | 22.0 | 22.6 |
| Non-Hispanic black (selected States) ² | --- | --- | 5.7 | 6.1 | 6.3 | 6.3 | 6.5 | 6.7 | 6.9 | 6.8 | 6.9 | 7.2 | 7.3 |

¹Includes Hawaiians and part Hawaiians.

²Trend data for Hispanics and non-Hispanics are affected by expansion of the reporting area for an Hispanic-origin item on the birth certificate and by immigration. These two factors affect numbers of events, composition of the Hispanic population, and maternal and infant health characteristics. The number of States in the reporting area increased from 22 in 1980, to 23 plus the District of Columbia (D.C.) in 1983, 30 plus D.C. in 1988, 47 plus D.C. in 1989, and 48 plus D.C. in 1990 (see Appendix I, National Vital Statistics System).

³Includes mothers of all races.

NOTES: Excludes births that occurred in States not reporting education and/or prenatal care (see Appendix I). The race groups, white and black, include persons of both Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics: Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics.

Table 10. Maternal age and marital status for live births, according to detailed race of mother and Hispanic origin of mother: United States, selected years 1970–90

[Data are based on the National Vital Statistics System]

| Age, marital status, race of mother, and Hispanic origin of mother | 1970 | 1975 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Age of mother less than 18 years | | | | | | | | | | | | | |
| All mothers..... | 6.3 | 7.6 | 5.8 | 5.4 | 5.2 | 5.0 | 4.8 | 4.7 | 4.8 | 4.8 | 4.8 | 4.8 | 4.7 |
| White..... | 4.8 | 6.0 | 4.5 | 4.3 | 4.1 | 3.9 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.6 | 3.6 |
| Black..... | 14.8 | 16.3 | 12.5 | 11.7 | 11.4 | 11.2 | 10.8 | 10.6 | 10.6 | 10.7 | 10.6 | 10.5 | 10.1 |
| American Indian or Alaskan Native..... | 7.5 | 11.2 | 9.4 | 9.1 | 8.5 | 8.7 | 7.9 | 7.6 | 8.0 | 7.9 | 7.8 | 7.5 | 7.2 |
| Asian or Pacific Islander..... | --- | --- | 1.5 | 1.6 | 1.7 | 1.6 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 | 2.0 | 2.1 |
| Chinese..... | 1.1 | 0.4 | 0.3 | 0.2 | 0.3 | 0.3 | 0.2 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 |
| Japanese..... | 2.0 | 1.7 | 1.0 | 1.0 | 1.3 | 0.7 | 0.8 | 0.9 | 0.9 | 0.9 | 0.8 | 0.9 | 0.8 |
| Filipino..... | 3.7 | 2.4 | 1.6 | 1.6 | 1.6 | 1.8 | 2.0 | 1.6 | 1.7 | 1.8 | 1.7 | 1.9 | 2.0 |
| Other Asian or Pacific Islander ¹ | --- | --- | 1.8 | 2.0 | 2.0 | 1.9 | 2.0 | 2.1 | 2.2 | 2.3 | 2.4 | 2.6 | 2.7 |
| Hispanic origin (selected States) ^{2,3} | --- | --- | 7.4 | 7.3 | 7.2 | 7.0 | 6.7 | 6.4 | 6.5 | 6.6 | 6.6 | 6.7 | 6.6 |
| Mexican American..... | --- | --- | 7.7 | 7.7 | 7.5 | 7.5 | 7.2 | 6.9 | 6.9 | 7.0 | 7.0 | 6.9 | 6.9 |
| Puerto Rican..... | --- | --- | 10.0 | 9.8 | 9.9 | 9.3 | 8.5 | 8.5 | 8.4 | 8.7 | 9.2 | 9.4 | 9.1 |
| Cuban..... | --- | --- | 3.8 | 3.6 | 3.2 | 2.6 | 2.5 | 2.2 | 2.3 | 2.1 | 2.2 | 2.7 | 2.7 |
| Central and South American..... | --- | --- | 2.4 | 2.4 | 2.6 | 2.6 | 2.4 | 2.4 | 2.4 | 2.7 | 2.7 | 3.0 | 3.2 |
| Other and unknown Hispanic..... | --- | --- | 6.5 | 6.5 | 6.9 | 7.1 | 7.0 | 7.0 | 7.3 | 7.7 | 7.6 | 8.0 | 8.0 |
| Non-Hispanic white (selected States) ² | --- | --- | 4.0 | 3.8 | 3.6 | 3.4 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.0 | 3.0 |
| Non-Hispanic black (selected States) ² | --- | --- | 12.7 | 11.9 | 11.6 | 11.2 | 10.9 | 10.7 | 10.6 | 10.7 | 10.8 | 10.5 | 10.2 |
| Age of mother 18–19 years | | | | | | | | | | | | | |
| All mothers..... | 11.3 | 11.3 | 9.8 | 9.4 | 9.0 | 8.7 | 8.3 | 8.0 | 7.8 | 7.6 | 7.7 | 8.1 | 8.1 |
| White..... | 10.4 | 10.3 | 9.0 | 8.6 | 8.2 | 7.9 | 7.4 | 7.1 | 7.0 | 6.8 | 6.9 | 7.2 | 7.3 |
| Black..... | 16.6 | 16.9 | 14.5 | 14.1 | 13.7 | 13.6 | 13.3 | 12.9 | 12.6 | 12.2 | 12.3 | 12.9 | 13.0 |
| American Indian or Alaskan Native..... | 12.8 | 15.2 | 14.6 | 13.9 | 13.8 | 13.3 | 13.1 | 12.4 | 12.1 | 11.8 | 11.4 | 12.1 | 12.3 |
| Asian or Pacific Islander..... | --- | --- | 3.9 | 4.1 | 4.1 | 3.7 | 3.4 | 3.4 | 3.4 | 3.3 | 3.4 | 3.7 | 3.7 |
| Chinese..... | 3.9 | 1.7 | 1.0 | 1.0 | 0.8 | 0.6 | 0.5 | 0.6 | 0.5 | 0.6 | 0.5 | 0.7 | 0.8 |
| Japanese..... | 4.1 | 3.3 | 2.3 | 2.6 | 2.5 | 2.3 | 2.3 | 1.9 | 1.9 | 1.6 | 1.8 | 2.0 | 2.0 |
| Filipino..... | 7.1 | 5.0 | 4.0 | 3.9 | 4.3 | 3.8 | 3.5 | 3.7 | 3.4 | 3.4 | 3.8 | 4.0 | 4.1 |
| Other Asian or Pacific Islander ¹ | --- | --- | 4.9 | 5.2 | 4.9 | 4.5 | 4.3 | 4.2 | 4.3 | 4.1 | 4.3 | 4.6 | 4.5 |
| Hispanic origin (selected States) ^{2,3} | --- | --- | 11.6 | 11.2 | 11.1 | 10.6 | 10.3 | 10.1 | 9.9 | 9.7 | 9.8 | 10.0 | 10.2 |
| Mexican American..... | --- | --- | 12.0 | 11.7 | 11.5 | 10.9 | 10.8 | 10.6 | 10.5 | 10.3 | 10.3 | 10.5 | 10.7 |
| Puerto Rican..... | --- | --- | 13.3 | 13.3 | 13.1 | 13.2 | 12.8 | 12.4 | 12.5 | 11.8 | 12.2 | 12.6 | 12.6 |
| Cuban..... | --- | --- | 9.2 | 9.2 | 8.2 | 6.8 | 5.7 | 4.9 | 4.5 | 4.1 | 3.9 | 4.3 | 5.0 |
| Central and South American..... | --- | --- | 6.0 | 5.8 | 6.4 | 6.0 | 5.7 | 5.8 | 5.7 | 5.3 | 5.4 | 5.6 | 5.9 |
| Other and unknown Hispanic..... | --- | --- | 10.8 | 10.4 | 11.3 | 11.2 | 10.9 | 10.5 | 10.0 | 10.5 | 10.8 | 11.2 | 11.1 |
| Non-Hispanic white (selected States) ² | --- | --- | 8.5 | 8.1 | 7.8 | 7.4 | 6.8 | 6.6 | 6.4 | 6.2 | 6.6 | 6.5 | 6.6 |
| Non-Hispanic black (selected States) ² | --- | --- | 14.7 | 14.1 | 13.9 | 13.5 | 13.4 | 12.9 | 12.6 | 12.2 | 12.4 | 13.0 | 13.0 |
| Unmarried mothers | | | | | | | | | | | | | |
| All mothers..... | 10.7 | 14.3 | 18.4 | 18.9 | 19.4 | 20.3 | 21.0 | 22.0 | 23.4 | 24.5 | 25.7 | 27.1 | 28.0 |
| White..... | 5.5 | 7.1 | 11.2 | 11.8 | 12.3 | 12.9 | 13.6 | 14.7 | 15.9 | 16.9 | 18.0 | 19.2 | 20.4 |
| Black..... | 37.5 | 49.5 | 56.1 | 56.9 | 57.7 | 59.2 | 60.3 | 61.2 | 62.4 | 63.4 | 64.7 | 65.7 | 66.5 |
| American Indian or Alaskan Native..... | 22.4 | 32.7 | 39.2 | 41.2 | 42.6 | 45.3 | 46.1 | 46.8 | 48.8 | 51.1 | 51.7 | 52.7 | 53.6 |
| Asian or Pacific Islander..... | --- | --- | 7.3 | 7.0 | 7.9 | 8.6 | 9.2 | 9.5 | 10.0 | 11.0 | 11.5 | 12.4 | 13.2 |
| Chinese..... | 3.0 | 1.6 | 2.7 | 2.4 | 2.5 | 3.3 | 3.4 | 3.0 | 3.5 | 4.5 | 3.9 | 4.2 | 5.0 |
| Japanese..... | 4.6 | 4.6 | 5.2 | 6.2 | 7.1 | 7.2 | 6.9 | 7.9 | 7.9 | 8.8 | 9.4 | 9.6 | 9.6 |
| Filipino..... | 9.1 | 6.9 | 8.6 | 9.1 | 9.9 | 10.3 | 10.8 | 11.4 | 12.0 | 12.7 | 13.6 | 14.8 | 15.9 |
| Other Asian or Pacific Islander ¹ | --- | --- | 8.5 | 7.7 | 8.7 | 9.5 | 10.4 | 10.9 | 11.4 | 12.4 | 13.2 | 14.2 | 14.9 |
| Hispanic origin (selected States) ^{2,3} | --- | --- | 23.6 | 24.5 | 25.6 | 27.5 | 28.3 | 29.5 | 31.6 | 32.6 | 34.0 | 35.5 | 36.7 |
| Mexican American..... | --- | --- | 20.3 | 20.7 | 21.9 | 23.7 | 24.2 | 25.7 | 27.9 | 28.9 | 30.6 | 31.7 | 33.3 |
| Puerto Rican..... | --- | --- | 46.3 | 48.0 | 49.0 | 49.5 | 50.8 | 51.5 | 52.6 | 53.0 | 53.3 | 55.2 | 55.9 |
| Cuban..... | --- | --- | 10.0 | 14.3 | 15.9 | 16.1 | 16.2 | 16.1 | 15.8 | 16.1 | 16.3 | 17.5 | 18.2 |
| Central and South American..... | --- | --- | 27.1 | 29.0 | 30.2 | 33.0 | 34.0 | 34.9 | 38.0 | 37.1 | 36.4 | 38.9 | 41.2 |
| Other and unknown Hispanic..... | --- | --- | 22.4 | 25.0 | 26.3 | 28.2 | 30.0 | 31.1 | 31.9 | 34.2 | 35.5 | 37.0 | 37.2 |
| Non-Hispanic white (selected States) ² | --- | --- | 9.6 | 10.0 | 10.5 | 11.0 | 11.5 | 12.4 | 13.5 | 14.3 | 15.2 | 16.1 | 16.9 |
| Non-Hispanic black (selected States) ² | --- | --- | 57.3 | 58.0 | 59.0 | 60.5 | 61.5 | 62.1 | 63.3 | 64.2 | 64.8 | 66.0 | 66.7 |

¹Includes Hawaiians and part Hawaiians.

²Trend data for Hispanics and non-Hispanics are affected by expansion of the reporting area for an Hispanic-origin item on the birth certificate and by immigration. These two factors affect numbers of events, composition of the Hispanic population, and maternal and infant health characteristics. The number of States in the reporting area increased from 22 in 1980, to 23 plus the District of Columbia (DC) in 1983, 30 plus DC in 1988, 47 plus DC in 1989, and 48 plus DC in 1990 (see Appendix I, National Vital Statistics System).

³Includes mothers of all races.

NOTES: Data for 1970 and 1975 exclude births that occurred in States not reporting marital status (see Appendix I). The race groups, white and black, include persons of both Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics: Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics.

Table 11. Low-birth-weight live births, according to race of mother, geographic division, and State: United States, average annual 1978–80, 1983–85, and 1988–90

[Data are based on the National Vital Statistics System]

| Geographic division and State | All races | | | White | | | Black | | |
|---|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1978–80 | 1983–85 | 1988–90 | 1978–80 | 1983–85 | 1988–90 | 1978–80 | 1983–85 | 1988–90 |
| Percent of live births weighing less than 2,500 grams | | | | | | | | | |
| United States | 6.95 | 6.76 | 6.98 | 5.82 | 5.65 | 5.69 | 12.79 | 12.68 | 13.34 |
| New England | 6.28 | 5.95 | 5.95 | 5.87 | 5.50 | 5.37 | 12.31 | 12.27 | 12.06 |
| Maine | 5.67 | 5.39 | 4.96 | 5.67 | 5.35 | 4.95 | * | * | * |
| New Hampshire | 5.63 | 5.01 | 4.96 | 5.62 | 4.99 | 4.93 | * | * | * |
| Vermont | 6.10 | 5.98 | 5.25 | 6.08 | 5.98 | 5.22 | * | * | * |
| Massachusetts | 6.20 | 5.85 | 5.92 | 5.82 | 5.45 | 5.34 | 11.65 | 11.38 | 11.06 |
| Rhode Island | 6.43 | 6.26 | 6.16 | 6.00 | 5.83 | 5.70 | *12.56 | *11.62 | *10.45 |
| Connecticut | 6.88 | 6.56 | 6.75 | 6.06 | 5.65 | 5.71 | 13.06 | 13.35 | 13.80 |
| Middle Atlantic | 7.24 | 6.92 | 7.37 | 5.98 | 5.68 | 5.79 | 13.16 | 12.61 | 13.99 |
| New York | 7.55 | 7.07 | 7.68 | 6.23 | 5.76 | 5.99 | 12.86 | 12.04 | 13.78 |
| New Jersey | 7.33 | 7.00 | 7.11 | 5.80 | 5.64 | 5.52 | 13.41 | 12.75 | 13.53 |
| Pennsylvania | 6.72 | 6.64 | 7.04 | 5.75 | 5.58 | 5.65 | 13.65 | 13.99 | 14.96 |
| East North Central | 6.81 | 6.64 | 7.08 | 5.63 | 5.43 | 5.60 | 13.43 | 13.46 | 14.15 |
| Ohio | 6.82 | 6.59 | 7.00 | 5.83 | 5.64 | 5.83 | 13.21 | 12.62 | 13.48 |
| Indiana | 6.41 | 6.35 | 6.58 | 5.71 | 5.70 | 5.84 | 12.36 | 12.01 | 12.63 |
| Illinois | 7.35 | 7.16 | 7.58 | 5.58 | 5.37 | 5.56 | 13.86 | 13.93 | 14.45 |
| Michigan | 7.02 | 6.93 | 7.49 | 5.78 | 5.52 | 5.67 | 13.42 | 14.19 | 14.84 |
| Wisconsin | 5.46 | 5.28 | 5.69 | 4.97 | 4.69 | 4.81 | 12.96 | 12.88 | 13.89 |
| West North Central | 5.78 | 5.65 | 5.85 | 5.26 | 5.11 | 5.20 | 13.00 | 12.74 | 13.00 |
| Minnesota | 5.18 | 4.94 | 4.98 | 5.00 | 4.73 | 4.57 | *12.73 | *12.02 | 13.45 |
| Iowa | 5.08 | 5.01 | 5.42 | 4.90 | 4.86 | 5.21 | *12.97 | *11.66 | *12.16 |
| Missouri | 6.75 | 6.70 | 6.96 | 5.65 | 5.56 | 5.72 | 13.11 | 13.09 | 13.16 |
| North Dakota | 5.14 | 4.80 | 5.09 | 4.95 | 4.66 | 4.98 | * | * | * |
| South Dakota | 5.12 | 5.23 | 5.03 | 4.95 | 4.92 | 4.92 | * | * | * |
| Nebraska | 5.67 | 5.37 | 5.53 | 5.30 | 5.00 | 5.08 | *13.39 | *12.09 | *12.91 |
| Kansas | 6.16 | 6.09 | 6.17 | 5.63 | 5.53 | 5.57 | 12.52 | 12.57 | 12.61 |
| South Atlantic | 8.03 | 7.78 | 7.99 | 6.12 | 5.93 | 5.92 | 12.61 | 12.51 | 13.05 |
| Delaware | 7.53 | 7.30 | 7.49 | 5.57 | 5.71 | 5.75 | 14.01 | 12.63 | 13.21 |
| Maryland | 7.89 | 7.60 | 7.97 | 5.94 | 5.50 | 5.68 | 12.58 | 12.57 | 13.07 |
| District of Columbia | 12.85 | 12.95 | 15.13 | *6.42 | 5.90 | 6.33 | 14.15 | 14.72 | 17.67 |
| Virginia | 7.40 | 7.12 | 7.13 | 5.90 | 5.63 | 5.49 | 12.11 | 12.01 | 12.26 |
| West Virginia | 6.77 | 6.83 | 6.70 | 6.53 | 6.61 | 6.47 | *12.85 | *12.40 | *12.70 |
| North Carolina | 8.05 | 7.86 | 8.04 | 6.21 | 6.01 | 6.01 | 12.33 | 12.51 | 12.80 |
| South Carolina | 8.78 | 8.67 | 8.96 | 6.05 | 6.09 | 6.32 | 12.86 | 12.80 | 13.15 |
| Georgia | 8.62 | 8.25 | 8.46 | 6.28 | 6.05 | 6.02 | 12.74 | 12.42 | 12.85 |
| Florida | 7.71 | 7.47 | 7.59 | 6.12 | 5.97 | 5.96 | 12.34 | 12.20 | 12.82 |
| East South Central | 7.89 | 7.87 | 8.07 | 6.22 | 6.24 | 6.33 | 12.31 | 12.30 | 12.61 |
| Kentucky | 6.95 | 6.95 | 6.89 | 6.38 | 6.42 | 6.35 | 12.66 | 12.38 | 12.00 |
| Tennessee | 8.01 | 7.94 | 8.10 | 6.51 | 6.46 | 6.47 | 13.21 | 13.16 | 13.39 |
| Alabama | 8.07 | 7.97 | 8.24 | 5.87 | 5.90 | 6.11 | 12.09 | 11.95 | 12.29 |
| Mississippi | 8.69 | 8.77 | 9.23 | 5.84 | 5.96 | 6.37 | 11.82 | 12.02 | 12.43 |
| West South Central | 7.37 | 7.17 | 7.32 | 6.10 | 5.96 | 6.02 | 12.74 | 12.79 | 13.05 |
| Arkansas | 7.52 | 7.78 | 8.23 | 5.91 | 6.23 | 6.63 | 12.31 | 12.70 | 13.39 |
| Louisiana | 8.68 | 8.61 | 9.04 | 6.13 | 5.78 | 6.01 | 12.75 | 13.24 | 13.42 |
| Oklahoma | 6.78 | 6.48 | 6.53 | 6.19 | 5.94 | 5.99 | 12.63 | 12.14 | 11.80 |
| Texas | 7.07 | 6.84 | 6.93 | 6.10 | 5.97 | 5.96 | 12.87 | 12.53 | 12.86 |
| Mountain | 6.69 | 6.58 | 6.70 | 6.50 | 6.40 | 6.46 | 13.53 | 13.02 | 13.95 |
| Montana | 5.71 | 5.70 | 5.90 | 5.68 | 5.60 | 5.85 | * | * | * |
| Idaho | 5.39 | 5.40 | 5.45 | 5.36 | 5.34 | 5.39 | * | * | * |
| Wyoming | 7.48 | 7.06 | 7.23 | 7.42 | 7.05 | 7.17 | * | * | * |
| Colorado | 8.22 | 7.77 | 7.87 | 7.89 | 7.46 | 7.45 | 15.24 | 13.99 | 14.60 |
| New Mexico | 8.18 | 7.41 | 7.19 | 8.13 | 7.54 | 7.26 | *14.14 | *12.62 | *12.08 |
| Arizona | 6.10 | 6.14 | 6.31 | 5.89 | 5.92 | 6.09 | *12.11 | 12.98 | 13.01 |
| Utah | 5.41 | 5.61 | 5.69 | 5.38 | 5.52 | 5.64 | * | * | * |
| Nevada | 7.05 | 6.85 | 7.32 | 6.43 | 6.27 | 6.49 | *12.75 | *11.59 | 15.02 |
| Pacific | 5.89 | 5.82 | 5.87 | 5.27 | 5.18 | 5.16 | 11.89 | 12.15 | 13.10 |
| Washington | 5.26 | 5.20 | 5.38 | 5.02 | 4.89 | 5.01 | 11.38 | 11.34 | 12.19 |
| Oregon | 5.07 | 5.10 | 5.15 | 4.90 | 4.94 | 4.94 | *11.85 | *11.82 | *11.91 |
| California | 6.04 | 5.96 | 5.97 | 5.36 | 5.26 | 5.20 | 11.98 | 12.26 | 13.25 |
| Alaska | 5.48 | 4.80 | 4.91 | 4.98 | 4.41 | 4.37 | *7.39 | *7.84 | *9.91 |
| Hawaii | 7.05 | 6.92 | 7.03 | 5.82 | 5.74 | 5.68 | *9.93 | *10.94 | *10.83 |

*Data for States with fewer than 5,000 live births for the 3-year period are considered unreliable. Data for States with fewer than 1,000 live births are considered highly unreliable and are not shown.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics: Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics.

Table 12. Very low-birth-weight live births, according to race of mother, geographic division, and State: United States, average annual 1978-80, 1983-85, and 1988-90

[Data are based on the National Vital Statistics System]

| Geographic division and State | All races | | | White | | | Black | | |
|---|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1978-80 | 1983-85 | 1988-90 | 1978-80 | 1983-85 | 1988-90 | 1978-80 | 1983-85 | 1988-90 |
| Percent of live births weighing less than 1,500 grams | | | | | | | | | |
| United States | 1.15 | 1.20 | 1.27 | 0.91 | 0.93 | 0.95 | 2.45 | 2.64 | 2.91 |
| New England | 1.10 | 1.05 | 1.10 | 0.99 | 0.94 | 0.95 | 2.73 | 2.78 | 2.83 |
| Maine | 1.32 | 0.97 | 0.82 | 1.32 | 0.96 | 0.82 | * | * | * |
| New Hampshire | 0.93 | 0.85 | 0.89 | 0.93 | 0.85 | 0.89 | * | * | * |
| Vermont | 0.99 | 0.91 | 0.73 | 0.98 | 0.92 | 0.72 | * | * | * |
| Massachusetts | 1.01 | 1.01 | 1.09 | 0.90 | 0.91 | 0.96 | 2.47 | 2.36 | 2.51 |
| Rhode Island | 1.23 | 1.08 | 1.12 | 1.09 | 0.98 | 1.02 | *3.09 | *2.51 | *2.33 |
| Connecticut | 1.21 | 1.26 | 1.34 | 0.99 | 1.00 | 1.05 | 2.91 | 3.28 | 3.38 |
| Middle Atlantic | 1.21 | 1.25 | 1.41 | 0.94 | 0.95 | 1.00 | 2.52 | 2.64 | 3.18 |
| New York | 1.28 | 1.27 | 1.44 | 0.98 | 0.95 | 1.00 | 2.48 | 2.51 | 3.09 |
| New Jersey | 1.24 | 1.26 | 1.38 | 0.92 | 0.95 | 1.00 | 2.54 | 2.58 | 3.06 |
| Pennsylvania | 1.11 | 1.22 | 1.36 | 0.90 | 0.95 | 0.99 | 2.57 | 3.04 | 3.51 |
| East North Central | 1.18 | 1.22 | 1.32 | 0.92 | 0.93 | 0.96 | 2.66 | 2.84 | 3.09 |
| Ohio | 1.16 | 1.20 | 1.27 | 0.94 | 0.97 | 0.99 | 2.57 | 2.68 | 2.88 |
| Indiana | 1.06 | 1.09 | 1.18 | 0.89 | 0.92 | 0.99 | 2.54 | 2.51 | 2.70 |
| Illinois | 1.33 | 1.33 | 1.43 | 0.94 | 0.94 | 0.96 | 2.80 | 2.87 | 3.05 |
| Michigan | 1.21 | 1.30 | 1.47 | 0.94 | 0.96 | 0.96 | 2.63 | 3.08 | 3.50 |
| Wisconsin | 0.95 | 0.97 | 1.03 | 0.86 | 0.84 | 0.82 | 2.37 | 2.74 | 2.91 |
| West North Central | 0.95 | 0.97 | 1.01 | 0.85 | 0.85 | 0.86 | 2.51 | 2.60 | 2.69 |
| Minnesota | 0.89 | 0.88 | 0.87 | 0.86 | 0.84 | 0.80 | *2.59 | *2.47 | 2.78 |
| Iowa | 0.88 | 0.83 | 0.89 | 0.84 | 0.80 | 0.84 | *2.90 | *2.13 | *2.63 |
| Missouri | 1.10 | 1.17 | 1.21 | 0.87 | 0.90 | 0.92 | 2.46 | 2.73 | 2.71 |
| North Dakota | 0.91 | 0.79 | 0.84 | 0.87 | 0.74 | 0.85 | * | * | * |
| South Dakota | 0.71 | 0.93 | 0.86 | 0.70 | 0.89 | 0.82 | * | * | * |
| Nebraska | 0.90 | 0.89 | 0.95 | 0.82 | 0.80 | 0.85 | *2.61 | *2.60 | *2.53 |
| Kansas | 0.97 | 1.02 | 1.07 | 0.85 | 0.92 | 0.93 | 2.47 | 2.33 | 2.69 |
| South Atlantic | 1.42 | 1.49 | 1.57 | 0.98 | 1.01 | 1.02 | 2.49 | 2.71 | 2.94 |
| Delaware | 1.36 | 1.48 | 1.59 | 0.84 | 1.08 | 1.07 | 3.08 | 2.85 | 3.31 |
| Maryland | 1.52 | 1.57 | 1.71 | 1.03 | 1.01 | 1.04 | 2.71 | 2.94 | 3.21 |
| District of Columbia | 2.74 | 3.25 | 3.80 | *0.79 | 1.33 | 1.38 | 3.13 | 3.74 | 4.47 |
| Virginia | 1.29 | 1.32 | 1.38 | 0.97 | 0.93 | 0.94 | 2.30 | 2.58 | 2.78 |
| West Virginia | 1.06 | 1.12 | 1.16 | 1.02 | 1.06 | 1.10 | *2.12 | *2.82 | *2.77 |
| North Carolina | 1.47 | 1.48 | 1.62 | 1.00 | 1.01 | 1.07 | 2.56 | 2.68 | 2.93 |
| South Carolina | 1.52 | 1.68 | 1.72 | 0.91 | 1.08 | 1.10 | 2.44 | 2.65 | 2.70 |
| Georgia | 1.51 | 1.62 | 1.64 | 0.98 | 1.04 | 1.01 | 2.44 | 2.70 | 2.79 |
| Florida | 1.30 | 1.36 | 1.42 | 0.96 | 1.00 | 1.00 | 2.33 | 2.49 | 2.81 |
| East South Central | 1.25 | 1.38 | 1.48 | 0.91 | 1.01 | 1.04 | 2.15 | 2.37 | 2.62 |
| Kentucky | 1.04 | 1.21 | 1.18 | 0.91 | 1.06 | 1.03 | 2.26 | 2.71 | 2.60 |
| Tennessee | 1.28 | 1.40 | 1.50 | 0.98 | 1.04 | 1.07 | 2.32 | 2.64 | 2.87 |
| Alabama | 1.32 | 1.40 | 1.59 | 0.87 | 0.95 | 1.07 | 2.14 | 2.26 | 2.59 |
| Mississippi | 1.38 | 1.54 | 1.64 | 0.81 | 0.95 | 0.94 | 2.00 | 2.20 | 2.43 |
| West South Central | 1.15 | 1.20 | 1.25 | 0.87 | 0.93 | 0.94 | 2.32 | 2.49 | 2.65 |
| Arkansas | 1.15 | 1.38 | 1.32 | 0.81 | 1.05 | 0.95 | 2.19 | 2.44 | 2.55 |
| Louisiana | 1.41 | 1.53 | 1.68 | 0.90 | 0.91 | 0.96 | 2.24 | 2.56 | 2.73 |
| Oklahoma | 1.01 | 1.06 | 1.04 | 0.90 | 0.92 | 0.94 | 2.17 | 2.44 | 2.12 |
| Texas | 1.09 | 1.12 | 1.17 | 0.86 | 0.92 | 0.93 | 2.44 | 2.45 | 2.67 |
| Mountain | 0.90 | 0.94 | 0.98 | 0.86 | 0.89 | 0.92 | 2.57 | 2.56 | 2.64 |
| Montana | 0.83 | 0.77 | 0.87 | 0.82 | 0.71 | 0.86 | * | * | * |
| Idaho | 0.72 | 0.80 | 0.87 | 0.72 | 0.78 | 0.87 | * | * | * |
| Wyoming | 0.91 | 1.01 | 0.91 | 0.88 | 0.99 | 0.93 | * | * | * |
| Colorado | 1.04 | 1.00 | 1.01 | 0.96 | 0.93 | 0.93 | 2.81 | 2.60 | 2.43 |
| New Mexico | 1.02 | 1.01 | 0.97 | 1.00 | 1.00 | 0.96 | *3.17 | *2.68 | *2.11 |
| Arizona | 0.91 | 1.03 | 1.04 | 0.87 | 0.97 | 0.99 | *2.12 | 2.73 | 3.01 |
| Utah | 0.73 | 0.77 | 0.80 | 0.74 | 0.75 | 0.79 | * | * | * |
| Nevada | 1.07 | 0.96 | 1.17 | 0.92 | 0.85 | 0.98 | *2.59 | *2.22 | 2.88 |
| Pacific | 0.97 | 1.01 | 1.00 | 0.85 | 0.88 | 0.85 | 2.29 | 2.61 | 2.79 |
| Washington | 0.82 | 0.91 | 0.87 | 0.77 | 0.85 | 0.79 | 1.81 | 2.35 | 2.71 |
| Oregon | 0.80 | 0.86 | 0.82 | 0.77 | 0.85 | 0.80 | *1.69 | *2.01 | *1.81 |
| California | 1.02 | 1.05 | 1.03 | 0.88 | 0.90 | 0.87 | 2.35 | 2.65 | 2.81 |
| Alaska | 0.84 | 0.81 | 0.97 | 0.77 | 0.74 | 0.78 | *1.38 | *2.06 | *2.90 |
| Hawaii | 0.91 | 1.02 | 1.01 | 0.73 | 0.92 | 0.93 | *1.39 | *2.13 | *2.73 |

*Data for States with fewer than 5,000 live births for the 3-year period are considered unreliable. Data for States with fewer than 1,000 live births are considered highly unreliable and are not shown.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics: Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics.

Table 13. Legal abortion ratios, according to selected patient characteristics: United States, selected years 1973–90

[Data are based on reporting by State health departments and by facilities]

| Characteristic | 1973 | 1975 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 ¹ |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------------------|
| Abortions per 100 live births | | | | | | | | | | | | | |
| Total | 19.6 | 27.2 | 35.9 | 35.8 | 35.4 | 34.9 | 36.4 | 35.4 | 35.4 | 35.6 | 35.2 | 34.6 | 34.4 |
| Age | | | | | | | | | | | | | |
| Under 15 years | 74.3 | 101.5 | 122.7 | 126.4 | 120.0 | 133.6 | 145.8 | 141.2 | 130.5 | 131.3 | 90.5 | 83.5 | 81.5 |
| 15–19 years | 31.7 | 46.4 | 66.4 | 66.8 | 66.5 | 67.3 | 71.4 | 71.7 | 70.2 | 72.6 | 61.2 | 54.8 | 50.7 |
| 20–24 years | 17.9 | 25.0 | 37.5 | 37.9 | 38.0 | 38.1 | 41.2 | 40.4 | 41.0 | 42.0 | 36.9 | 36.1 | 37.5 |
| 25–29 years | 12.3 | 16.6 | 23.0 | 23.2 | 23.5 | 23.0 | 23.9 | 23.2 | 24.0 | 23.9 | 21.1 | 20.9 | 21.6 |
| 30–34 years | 16.5 | 22.1 | 23.3 | 23.7 | 23.0 | 22.0 | 22.3 | 21.4 | 21.5 | 21.4 | 18.6 | 18.4 | 18.9 |
| 35–39 years | 26.7 | 37.5 | 40.3 | 40.3 | 37.1 | 35.4 | 35.2 | 33.4 | 33.4 | 31.7 | 27.7 | 26.8 | 27.1 |
| 40 years and over | 40.2 | 59.9 | 78.3 | 77.6 | 75.0 | 69.1 | 66.7 | 63.8 | 59.8 | 56.2 | 51.3 | 49.4 | 50.1 |
| Race | | | | | | | | | | | | | |
| White | 17.5 | 22.7 | 31.3 | 31.2 | 30.4 | 29.5 | 30.8 | 29.6 | 30.0 | 30.0 | 25.7 | 24.8 | 25.3 |
| All other | 28.9 | 46.5 | 54.7 | 54.4 | 55.6 | 56.0 | 58.2 | 57.6 | 55.8 | 55.7 | 45.5 | 46.1 | 47.5 |
| Marital status | | | | | | | | | | | | | |
| Married | 6.2 | 8.3 | 10.2 | 9.8 | 9.7 | 9.3 | 9.6 | 8.7 | 9.3 | 9.8 | 8.1 | 7.8 | 8.1 |
| Unmarried | 109.8 | 141.1 | 149.9 | 147.5 | 142.2 | 135.2 | 137.1 | 129.5 | 120.6 | 114.9 | 97.1 | 88.4 | 90.2 |
| Number of previous live births ² | | | | | | | | | | | | | |
| 0 | 23.0 | 30.2 | 48.6 | 48.6 | 48.2 | 46.9 | 49.3 | 47.7 | 47.1 | 46.3 | 37.4 | 37.2 | 35.9 |
| 1 | 12.1 | 17.3 | 21.9 | 21.9 | 22.0 | 22.1 | 23.0 | 22.8 | 23.8 | 24.7 | 21.0 | 21.2 | 22.5 |
| 2 | 19.6 | 29.7 | 32.8 | 32.6 | 32.4 | 32.5 | 34.0 | 33.0 | 33.5 | 34.5 | 29.3 | 28.6 | 31.2 |
| 3 | 25.8 | 39.8 | 33.5 | 33.5 | 32.2 | 31.9 | 32.8 | 32.1 | 32.4 | 33.2 | 27.7 | 27.8 | 29.8 |
| 4 or more | 26.4 | 40.8 | 27.3 | 26.6 | 25.4 | 24.8 | 24.9 | 23.7 | 24.2 | 24.2 | 20.2 | 19.9 | 26.3 |

¹Preliminary data.

²For 1973–75, data indicate number of living children.

NOTE: Ratios exclude cases for which selected characteristic was unknown and are based on abortions reported to the Centers for Disease Control and Prevention.

SOURCES: Centers for Disease Control and Prevention: Abortion Surveillance, 1973–75. Public Health Service, DHHS, Atlanta, Ga., May 1977–Nov. 1980; Abortion Surveillance, 1980. Public Health Service, DHHS, Atlanta, Ga., May 1983; CDC Surveillance Summaries. Abortion Surveillance, United States: 1984–85, Vol. 38, No. SS-2, Sept. 1989; 1986 and 1987, Vol. 39, No. SS-2, June 1990; 1988, Vol. 40, No. SS-2, July 1991; 1989, Vol. 41, No. SS-5, Sept. 1992. Public Health Service, DHHS, Atlanta, Ga.; and Abortion Surveillance: Preliminary Analysis, United States, 1990, Vol. 41, No. 50. Public Health Service, DHHS, Atlanta, Ga., Dec. 1992.

Table 14. Legal abortions, according to selected characteristics: United States, selected years 1973–90

[Data are based on reporting by State health departments and by facilities]

| Characteristic | 1973 | 1975 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 ¹ |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| Number of legal abortions reported in thousands | | | | | | | | | | | | | |
| Centers for Disease Control and Prevention | 616 | 855 | 1,298 | 1,301 | 1,304 | 1,269 | 1,334 | 1,329 | 1,328 | 1,354 | 1,371 | 1,397 | 1,430 |
| Alan Guttmacher Institute ² | 745 | 1,034 | 1,554 | 1,577 | 1,574 | 1,575 | 1,577 | 1,589 | 1,574 | 1,559 | 1,591 | --- | --- |
| Percent distribution | | | | | | | | | | | | | |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Period of gestation | | | | | | | | | | | | | |
| Under 9 weeks | 36.1 | 44.6 | 51.7 | 51.2 | 50.6 | 49.7 | 50.5 | 50.3 | 51.0 | 50.4 | 48.7 | 49.8 | 51.6 |
| 9–10 weeks | 29.4 | 28.4 | 26.2 | 26.8 | 26.7 | 26.8 | 26.4 | 26.6 | 25.8 | 26.0 | 26.4 | 25.8 | 25.3 |
| 11–12 weeks | 17.9 | 14.9 | 12.2 | 12.1 | 12.4 | 12.8 | 12.6 | 12.5 | 12.2 | 12.4 | 12.7 | 12.6 | 11.7 |
| 13–15 weeks | 6.9 | 5.0 | 5.2 | 5.2 | 5.3 | 5.8 | 5.8 | 5.9 | 6.1 | 6.2 | 6.6 | 6.6 | 6.4 |
| 16–20 weeks | 8.0 | 6.1 | 3.9 | 3.7 | 3.9 | 3.9 | 3.9 | 3.9 | 4.1 | 4.2 | 4.5 | 4.2 | 4.0 |
| 21 weeks and over | 1.7 | 1.0 | 0.9 | 1.0 | 1.1 | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 1.1 | 1.0 | 1.0 |
| Type of procedure | | | | | | | | | | | | | |
| Curettage | 88.4 | 90.9 | 95.5 | 96.1 | 96.4 | 96.8 | 96.8 | 97.5 | 97.0 | 97.2 | 98.6 | 98.8 | 98.8 |
| Intrauterine instillation | 10.4 | 6.2 | 3.1 | 2.8 | 2.5 | 2.1 | 1.9 | 1.7 | 1.4 | 1.3 | 1.1 | 0.9 | 0.8 |
| Hysterotomy or hysterectomy | 0.7 | 0.4 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Other | 0.6 | 2.4 | 1.3 | 1.0 | 1.0 | 1.1 | 1.3 | 0.8 | 1.6 | 1.5 | 0.3 | 0.3 | 0.4 |
| Location of facility | | | | | | | | | | | | | |
| In State of residence | 74.8 | 89.2 | 92.6 | 92.5 | 92.9 | 93.3 | 92.0 | 92.4 | 92.3 | 91.7 | 91.4 | 91.0 | 91.8 |
| Out of State of residence | 25.2 | 10.8 | 7.4 | 7.5 | 7.1 | 6.7 | 8.0 | 7.6 | 7.7 | 8.3 | 8.6 | 9.0 | 8.2 |
| Previous induced abortions | | | | | | | | | | | | | |
| 0 | --- | 81.9 | 67.6 | 65.3 | 63.7 | 62.4 | 60.5 | 60.1 | 59.3 | 58.5 | 57.8 | 58.1 | 57.2 |
| 1 | --- | 14.9 | 23.5 | 24.3 | 24.9 | 25.0 | 25.7 | 25.7 | 26.3 | 26.5 | 26.9 | 26.5 | 26.8 |
| 2 | --- | 2.5 | 6.6 | 7.5 | 8.2 | 9.0 | 9.4 | 9.8 | 9.6 | 10.3 | 10.4 | 9.9 | 10.1 |
| 3 or more | --- | 0.7 | 2.3 | 2.9 | 3.2 | 3.7 | 4.3 | 4.4 | 4.8 | 4.7 | 4.9 | 5.5 | 5.9 |

¹Preliminary data.

²No survey was conducted in 1986 and 1989; data for 1986 are projected.

NOTE: For a discussion of the differences in reported legal abortions between the Centers for Disease Control and Prevention and the Alan Guttmacher Institute, see Appendix I. Percent distributions exclude cases for which selected characteristic was unknown and are based on abortions reported to the Centers for Disease Control and Prevention.

SOURCES: Centers for Disease Control and Prevention: Abortion Surveillance, 1980. Public Health Service, DHHS, Atlanta, Ga., May 1983; CDC Surveillance Summaries. Abortion Surveillance, United States: 1984–1985, Vol. 38, No. SS-2, Sept. 1989; 1986 and 1987, Vol. 39, No. SS-2, June 1990; 1988, Vol. 40, No. SS-2, July 1991; 1989, Vol. 41, No. SS-5, Sept. 1992. Public Health Service, DHHS, Atlanta, Ga.; and Abortion Surveillance: Preliminary Analysis, United States, 1990, Vol. 41, No. 50. Public Health Service, DHHS, Atlanta, Ga., Dec. 1992; Sullivan, E., Tietze, C., and Dryfoos, J.: Legal abortions in the United States, 1975–1976. Fam. Plann. Perspect. 9(3):116–129, May–June 1977; Henshaw, S. K., Forrest, J. D., and Blaine, E.: Abortion services in the United States, 1981 and 1982. Fam. Plann. Perspect. 16(3), May–June 1984; Henshaw, S. K., Forrest, J. D., and Van Vort, J.: Abortion services in the United States, 1984 and 1985. Fam. Plann. Perspect. 19(2), Mar.–Apr. 1987; and Henshaw, S. K. and Van Vort, J.: Abortion services in the United States, 1987 and 1988. Fam. Plann. Perspect. 22(3), May–June 1990.

Table 15. Legal abortions, abortion-related deaths, and abortion-related death rates, according to period of gestation: United States, 1973–75, 1976–78, 1979–81, 1982–84, and 1985–87

[Data are based primarily on reporting by State health departments and by facilities]

| Period of gestation and year | Number of legal abortions reported | Abortion-related deaths | |
|---------------------------------|---|----------------------------|----------------------------------|
| | | Number | Rate per 100,000 abortions |
| Total | | | |
| 1973–75..... | 2,234,160 | 80 | 3.6 |
| 1976–78..... | 3,225,473 | 37 | 1.1 |
| 1979–81..... | 3,850,287 | 139 | 1.0 |
| 1982–84..... | 3,906,488 | 234 | 0.9 |
| 1985–87..... | 4,010,353 | 326 | 0.6 |
| Under 9 weeks | | | |
| 1973–75..... | 928,731 | 7 | *0.8 |
| 1976–78..... | 1,620,841 | 6 | *0.4 |
| 1979–81..... | 1,989,506 | 11 | *0.6 |
| 1982–84..... | 1,947,672 | 4 | *0.2 |
| 1985–87..... | 1,987,428 | 3 | * |
| 9–10 weeks | | | |
| 1973–75..... | 642,922 | 14 | 2.2 |
| 1976–78..... | 882,051 | 7 | *0.8 |
| 1979–81..... | 1,025,656 | 7 | *0.7 |
| 1982–84..... | 1,049,486 | 6 | *0.6 |
| 1985–87..... | 1,067,104 | 1 | * |
| 11–12 weeks | | | |
| 1973–75..... | 355,304 | 12 | 3.4 |
| 1976–78..... | 425,744 | 2 | * |
| 1979–81..... | 471,921 | 6 | *1.3 |
| 1982–84..... | 497,367 | 4 | *0.8 |
| 1985–87..... | 507,712 | 3 | * |
| 13 weeks and over | | | |
| 1973–75..... | 307,203 | 47 | 15.3 |
| 1976–78..... | 296,837 | 22 | 7.4 |
| 1979–81..... | 363,204 | 13 | 3.6 |
| 1982–84..... | 411,963 | 16 | 3.9 |
| 1985–87..... | 448,109 | 13 | 2.9 |

11979–81 data includes 2 deaths with weeks of gestation unknown.

21982–84 data includes 4 deaths with weeks of gestation unknown.

31985–87 data includes 6 deaths with weeks of gestation unknown.

*Estimates with relative standard errors greater than 30 percent are considered unreliable. Estimates with relative standard errors greater than 50 percent are considered highly unreliable and are not shown.

SOURCE: Centers for Disease Control and Prevention: Surveillance Summaries, Abortion Surveillance, United States, 1990. Vol. 41, No. SS-4. Public Health Service, DHHS, Atlanta, Ga., Oct. 1992.

Table 16. Methods of contraception for ever-married women 15–44 years of age, according to race and age: United States, 1973, 1982, and 1988

[Data are based on household interviews of samples of women in the childbearing ages]

| Method of contraception and age | All races | | | White | | | Black | | |
|---|-----------|-------------------|--------|--------|-------------------|--------|-------|-------------------|-------|
| | 1973 | 1982 ¹ | 1988 | 1973 | 1982 ¹ | 1988 | 1973 | 1982 ¹ | 1988 |
| Number of ever-married women in thousands | | | | | | | | | |
| 15–44 years | 30,247 | 34,935 | 36,842 | 26,795 | 30,419 | 31,465 | 3,109 | 3,440 | 3,614 |
| 15–24 years | 6,593 | 5,550 | 3,971 | 5,855 | 4,975 | 3,495 | 692 | 427 | 343 |
| 25–34 years | 12,731 | 15,996 | 16,889 | 11,356 | 31,819 | 14,371 | 1,226 | 1,628 | 1,666 |
| 35–44 years | 10,922 | 13,439 | 15,982 | 9,584 | 11,626 | 13,599 | 1,191 | 1,358 | 1,606 |
| Percent of ever-married women using contraception | | | | | | | | | |
| 15–44 years | 66.4 | 66.9 | 70.8 | 67.8 | 68.0 | 71.8 | 55.8 | 60.4 | 63.9 |
| 15–24 years | 66.9 | 65.4 | 69.6 | 67.1 | 66.8 | 68.8 | 65.2 | 53.3 | 69.0 |
| 25–34 years | 70.4 | 70.0 | 70.6 | 71.6 | 70.7 | 71.3 | 59.2 | 67.7 | 66.1 |
| 35–44 years | 61.5 | 63.9 | 71.4 | 63.6 | 65.3 | 73.1 | 46.8 | 54.0 | 60.5 |
| Percent of ever-married contracepting women | | | | | | | | | |
| 15–44 years | 13.6 | 28.9 | 34.7 | 12.5 | 27.2 | 32.9 | 25.4 | 42.8 | 54.5 |
| 15–24 years | 4.3 | *6.1 | 8.4 | 4.1 | *5.7 | 8.2 | 6.8 | *13.0 | *11.0 |
| 25–34 years | 12.1 | 24.5 | 27.6 | 11.4 | 22.7 | 26.2 | 20.3 | 37.7 | 46.9 |
| 35–44 years | 21.7 | 44.0 | 48.5 | 19.2 | 42.4 | 45.9 | 47.2 | 59.5 | 73.6 |
| Male sterilization ² | | | | | | | | | |
| 15–44 years | 10.4 | 13.6 | 15.0 | 11.2 | 14.7 | 16.8 | *1.2 | *2.2 | 1.3 |
| 15–24 years | 2.1 | *4.1 | *2.8 | 2.3 | *4.4 | *3.2 | *0.1 | *0.5 | * |
| 25–34 years | 10.3 | 11.5 | 11.8 | 11.0 | 12.6 | 13.1 | *2.0 | *1.7 | *1.6 |
| 35–44 years | 15.8 | 20.2 | 21.3 | 17.2 | 21.8 | 23.9 | *1.1 | *3.6 | *1.4 |
| Birth control pill | | | | | | | | | |
| 15–44 years | 36.6 | 20.7 | 21.2 | 36.1 | 20.6 | 21.1 | 41.8 | 23.1 | 22.7 |
| 15–24 years | 65.3 | 56.2 | 61.4 | 64.4 | 56.0 | 59.8 | 72.4 | 56.8 | 74.9 |
| 25–34 years | 36.2 | 22.8 | 28.6 | 35.8 | 22.1 | 28.7 | 41.6 | 28.8 | 29.3 |
| 35–44 years | 18.3 | 3.2 | 3.8 | 18.2 | *3.2 | 4.0 | 17.2 | *4.3 | *2.4 |
| Intrauterine device | | | | | | | | | |
| 15–44 years | 10.2 | 7.6 | 2.2 | 9.8 | 7.5 | 2.1 | 13.8 | 10.0 | 3.4 |
| 15–24 years | 10.8 | *3.5 | *0.4 | 10.7 | *3.3 | *0.5 | 12.6 | *8.2 | * |
| 25–34 years | 13.2 | 9.6 | 2.1 | 12.7 | 9.4 | 1.8 | 18.8 | 14.1 | 3.8 |
| 35–44 years | 5.6 | 6.8 | 2.8 | 5.4 | 7.0 | 2.7 | 8.4 | *4.5 | 3.9 |
| Diaphragm | | | | | | | | | |
| 15–44 years | 3.4 | 6.5 | 6.0 | 3.6 | 6.8 | 6.2 | 1.8 | 4.2 | 2.3 |
| 15–24 years | *1.5 | *7.0 | 3.1 | *1.6 | *7.2 | *3.5 | *0.3 | *4.5 | *1.3 |
| 25–34 years | 3.1 | 8.5 | 6.7 | 3.2 | 9.1 | 7.1 | *2.2 | 3.1 | *1.6 |
| 35–44 years | 5.0 | *3.8 | 5.9 | 5.3 | *3.7 | 6.0 | *2.5 | *5.7 | 3.4 |
| Condom | | | | | | | | | |
| 15–44 years | 12.6 | 12.1 | 12.9 | 13.4 | 12.6 | 13.1 | 4.1 | 5.0 | 7.7 |
| 15–24 years | 7.7 | 12.7 | 16.3 | 8.3 | 12.9 | 17.7 | *1.8 | *6.3 | *7.6 |
| 25–34 years | 12.4 | 12.4 | 13.9 | 13.1 | 13.0 | 14.0 | 3.8 | 5.0 | 9.6 |
| 35–44 years | 16.1 | 11.4 | 11.0 | 17.2 | 12.0 | 11.0 | 6.4 | *4.5 | 5.7 |

¹Estimates have been revised and differ from those previously published.

²Refers only to currently married couples in 1973.

*Relative standard error greater than 30 percent.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics: Data from the National Survey of Family Growth.

**Table 17. Methods of contraception for women 15–44 years of age, according to race and marital status:
United States, 1982 and 1988**

[Data are based on household interviews of samples of women in the childbearing ages]

| Marital status and method of contraception | All races | | White | | Black | |
|---|--------------------------------------|--------|-------------------|--------|-------------------|-------|
| | 1982 ¹ | 1988 | 1982 ¹ | 1988 | 1982 ¹ | 1988 |
| Marital status | Number of women in thousands | | | | | |
| All marital statuses | 54,099 | 57,900 | 45,367 | 47,077 | 6,985 | 7,679 |
| Currently married | 28,231 | 29,147 | 25,195 | 25,426 | 2,130 | 2,197 |
| Widowed, separated, or divorced | 6,704 | 7,695 | 5,224 | 6,038 | 1,310 | 1,417 |
| Never married | 19,164 | 21,058 | 14,948 | 15,612 | 3,545 | 4,065 |
| All methods | Percent of women using contraception | | | | | |
| All marital statuses | 55.7 | 60.3 | 56.7 | 61.8 | 52.0 | 56.7 |
| Currently married | 69.7 | 74.3 | 70.4 | 75.3 | 63.3 | 67.0 |
| Widowed, separated, or divorced | 55.5 | 57.6 | 56.3 | 57.4 | 55.7 | 59.0 |
| Never married | 35.3 | 41.9 | 33.6 | 41.5 | 43.8 | 50.4 |
| Female sterilization | Percent of contracepting women | | | | | |
| All marital statuses | 23.2 | 27.5 | 22.1 | 26.1 | 30.0 | 38.1 |
| Currently married | 26.9 | 31.4 | 25.8 | 30.2 | 37.0 | 48.3 |
| Widowed, separated, or divorced | 39.2 | 50.7 | 35.2 | 47.9 | 53.5 | 65.4 |
| Never married | 3.7 | 6.4 | *1.0 | 2.4 | 12.8 | 19.6 |
| Male sterilization | | | | | | |
| All marital statuses | 10.9 | 11.7 | 12.2 | 13.6 | 1.4 | 0.9 |
| Currently married | 15.5 | 17.3 | 16.4 | 19.1 | 3.4 | 2.0 |
| Widowed, separated, or divorced | 3.4 | 3.6 | 4.3 | 4.3 | *— | *0.1 |
| Never married | 1.8 | 1.8 | 2.3 | 2.3 | *0.4 | *0.3 |
| Birth control pill | | | | | | |
| All marital statuses | 28.0 | 30.7 | 26.7 | 29.8 | 38.0 | 38.0 |
| Currently married | 19.3 | 20.4 | 19.0 | 20.0 | 24.5 | 26.0 |
| Widowed, separated, or divorced | 28.4 | 25.3 | 30.4 | 27.4 | 20.4 | 16.8 |
| Never married | 53.0 | 59.0 | 51.6 | 60.2 | 58.1 | 55.3 |
| Intrauterine device | | | | | | |
| All marital statuses | 7.1 | 2.0 | 6.9 | 1.8 | 9.1 | 3.1 |
| Currently married | 6.9 | 2.0 | 6.8 | 1.8 | 9.3 | 2.3 |
| Widowed, separated, or divorced | 11.5 | 3.6 | 11.8 | 3.3 | 11.4 | 5.4 |
| Never married | 5.4 | 1.3 | 4.3 | *0.9 | 7.9 | 2.7 |
| Diaphragm | | | | | | |
| All marital statuses | 8.1 | 5.7 | 8.8 | 6.2 | 3.5 | 1.9 |
| Currently married | 6.5 | 6.2 | 6.7 | 6.4 | 5.1 | 2.4 |
| Widowed, separated, or divorced | 6.7 | 5.3 | 7.8 | 5.6 | *2.5 | *2.1 |
| Never married | 13.4 | 4.9 | 16.8 | 6.1 | 2.6 | 1.5 |
| Condom | | | | | | |
| All marital statuses | 12.0 | 14.6 | 12.7 | 14.9 | 6.2 | 10.3 |
| Currently married | 14.1 | 14.3 | 14.5 | 14.3 | 6.8 | 9.8 |
| Widowed, separated, or divorced | *1.5 | 5.9 | *1.5 | 6.3 | *1.6 | 4.1 |
| Never married | 11.6 | 19.6 | 12.8 | 21.4 | 7.9 | 13.2 |

¹Estimates have been revised and differ from those previously published.

*Relative standard error greater than 30 percent.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Vital Statistics: Data from the National Survey of Family Growth.

Table 18. Infant, neonatal, and postneonatal mortality rates, according to detailed race of mother and Hispanic origin of mother: United States, 1960 and 1983–87 birth cohorts

[Data are based on the National Linked Files of Live Births and Infant Deaths]

| Race of mother and Hispanic origin of mother | Birth cohort | | | | | | |
|--|-------------------|------|------|------|------|------|---------|
| | 1960 ¹ | 1983 | 1984 | 1985 | 1986 | 1987 | 1985–87 |
| Infant deaths per 1,000 live births | | | | | | | |
| All mothers | 25.1 | 10.9 | 10.4 | 10.4 | 10.1 | 9.8 | 10.1 |
| White | 22.2 | 9.3 | 8.9 | 8.9 | 8.5 | 8.2 | 8.5 |
| Black | 42.1 | 19.2 | 18.2 | 18.6 | 18.2 | 17.8 | 18.2 |
| American Indian or Alaskan Native | — | 15.2 | 13.4 | 13.1 | 13.9 | 13.0 | 13.3 |
| Asian or Pacific Islander | — | 8.3 | 8.9 | 7.8 | 7.8 | 7.3 | 7.6 |
| Chinese | — | 9.5 | 7.2 | 5.8 | 5.9 | 6.2 | 6.0 |
| Japanese | — | * | * | *6.0 | *7.2 | *6.6 | 6.6 |
| Filipino | — | 8.4 | 8.5 | 7.7 | 7.2 | 6.6 | 7.2 |
| Other Asian or Pacific Islander ² | — | 8.3 | 9.7 | 8.6 | 8.6 | 7.9 | 8.3 |
| Hispanic origin ^{3,4} | — | 9.5 | 9.3 | 8.8 | 8.4 | 8.2 | 8.5 |
| Mexican American | — | 9.1 | 8.9 | 8.5 | 7.9 | 8.0 | 8.1 |
| Puerto Rican | — | 12.9 | 12.9 | 11.1 | 11.7 | 9.9 | 10.9 |
| Cuban | — | *7.5 | *8.1 | 8.5 | *7.5 | 7.1 | 7.7 |
| Central and South American | — | 8.5 | 8.3 | 8.0 | 7.8 | 7.8 | 7.8 |
| Other and unknown Hispanic | — | 10.6 | 9.6 | 9.5 | 9.2 | 8.7 | 9.1 |
| Non-Hispanic white ⁴ | — | 9.2 | 8.7 | 8.7 | 8.4 | 8.1 | 8.4 |
| Non-Hispanic black ⁴ | — | 19.1 | 18.1 | 18.3 | 18.0 | 17.4 | 17.9 |
| Neonatal deaths per 1,000 live births | | | | | | | |
| All mothers | 18.4 | 7.1 | 6.8 | 6.8 | 6.5 | 6.2 | 6.6 |
| White | 16.9 | 6.1 | 5.8 | 5.8 | 5.5 | 5.2 | 5.5 |
| Black | 27.3 | 12.5 | 11.9 | 12.3 | 11.9 | 11.8 | 12.0 |
| American Indian or Alaskan Native | — | 7.5 | 6.4 | 6.1 | 6.1 | 6.2 | 6.1 |
| Asian or Pacific Islander | — | 5.2 | 5.7 | 4.8 | 4.8 | 4.5 | 4.7 |
| Chinese | — | 5.5 | 4.4 | 3.3 | 3.1 | 3.7 | 3.4 |
| Japanese | — | * | * | *3.1 | *4.7 | *4.0 | 3.9 |
| Filipino | — | 5.6 | 5.3 | 5.1 | 4.9 | 4.1 | 4.7 |
| Other Asian or Pacific Islander ² | — | 5.2 | 6.5 | 5.4 | 5.3 | 4.9 | 5.2 |
| Hispanic origin ^{3,4} | — | 6.2 | 6.2 | 5.7 | 5.5 | 5.3 | 5.5 |
| Mexican American | — | 5.9 | 5.8 | 5.4 | 5.1 | 5.1 | 5.2 |
| Puerto Rican | — | 8.7 | 8.6 | 7.6 | 7.6 | 6.7 | 7.3 |
| Cuban | — | *5.0 | *6.4 | 6.2 | *5.1 | 5.3 | 5.5 |
| Central and South American | — | 5.8 | 5.9 | 5.6 | 5.2 | 5.0 | 5.2 |
| Other and unknown Hispanic | — | 6.4 | 6.5 | 5.6 | 6.0 | 5.6 | 5.7 |
| Non-Hispanic white ⁴ | — | 6.0 | 5.7 | 5.7 | 5.4 | 5.0 | 5.4 |
| Non-Hispanic black ⁴ | — | 12.1 | 11.5 | 11.9 | 11.5 | 11.3 | 11.6 |
| Postneonatal deaths per 1,000 live births | | | | | | | |
| All mothers | 6.7 | 3.8 | 3.6 | 3.6 | 3.6 | 3.5 | 3.6 |
| White | 5.3 | 3.2 | 3.1 | 3.1 | 3.0 | 3.0 | 3.0 |
| Black | 14.8 | 6.7 | 6.3 | 6.3 | 6.3 | 6.1 | 6.2 |
| American Indian or Alaskan Native | — | 7.7 | 7.0 | 7.0 | 7.8 | 6.8 | 7.2 |
| Asian or Pacific Islander | — | 3.1 | 3.1 | 2.9 | 3.0 | 2.8 | 2.9 |
| Chinese | — | * | * | *2.5 | *2.8 | *2.5 | 2.6 |
| Japanese | — | * | * | * | *2.5 | * | 2.7 |
| Filipino | — | *2.8 | *3.2 | *2.7 | 2.3 | 2.5 | 2.5 |
| Other Asian or Pacific Islander ² | — | 3.1 | 3.2 | 3.1 | 3.3 | 3.0 | 3.2 |
| Hispanic origin ^{3,4} | — | 3.3 | 3.1 | 3.2 | 2.9 | 2.9 | 3.0 |
| Mexican American | — | 3.2 | 3.2 | 3.2 | 2.8 | 2.9 | 2.9 |
| Puerto Rican | — | 4.2 | 4.3 | 3.5 | 4.2 | 3.2 | 3.6 |
| Cuban | — | * | *1.7 | * | *2.4 | * | 2.2 |
| Central and South American | — | 2.6 | 2.4 | 2.4 | 2.6 | 2.8 | 2.6 |
| Other and unknown Hispanic | — | 4.2 | 3.1 | 3.9 | 3.2 | 3.2 | 3.4 |
| Non-Hispanic white ⁴ | — | 3.2 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Non-Hispanic black ⁴ | — | 7.0 | 6.6 | 6.4 | 6.5 | 6.2 | 6.3 |

¹Data are shown by race of child in 1960.

²Includes Hawaiians and part Hawaiians.

³Includes mothers of all races.

⁴Data shown only for States with an Hispanic-origin item on their birth certificates. In 1983–87, 23 States and the District of Columbia included this item.

*Infant and neonatal mortality rates for groups with fewer than 10,000 births are considered unreliable. Postneonatal mortality rates for groups with fewer than 20,000 births are considered unreliable. Infant and neonatal mortality rates for groups with fewer than 7,500 births are considered highly unreliable and are not shown. Postneonatal mortality rates for groups with fewer than 15,000 births are considered highly unreliable and are not shown.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics: Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics for the National Linked Files of Live Births and Infant Deaths.

Table 19. Infant mortality rates, according to birth weight, detailed race of mother, and Hispanic origin of mother: United States, 1960 and 1983–87 birth cohorts

[Data are based on the National Linked Files of Live Births and Infant Deaths]

| Birth weight, race of mother, and Hispanic origin of mother | Birth cohort | | | | | |
|---|-------------------------------------|--------|--------|--------|--------|-------|
| | 1960 ¹ | 1983 | 1984 | 1985 | 1986 | 1987 |
| Birth weight less than 1,500 grams | Infant deaths per 1,000 live births | | | | | |
| All mothers | 752.6 | 393.6 | 383.5 | 381.0 | 364.8 | 351.4 |
| White | 769.4 | 402.4 | 389.5 | 385.1 | 369.8 | 354.8 |
| Black | 706.4 | 378.7 | 372.5 | 370.5 | 353.6 | 346.5 |
| American Indian or Alaskan Native | --- | 376.1 | 356.7 | 388.9 | 422.6 | 334.2 |
| Asian or Pacific Islander | --- | 352.9 | 363.4 | 384.4 | 347.2 | 299.3 |
| Chinese | --- | * | * | *369.6 | * | * |
| Japanese | --- | * | * | *238.8 | * | * |
| Filipino | --- | *321.0 | *287.3 | *350.9 | *285.7 | 214.6 |
| Other Asian or Pacific Islander ² | --- | 342.4 | 408.7 | 414.9 | 370.4 | 334.5 |
| Hispanic origin ^{3,4} | --- | 382.2 | 381.7 | 359.8 | 347.1 | 328.7 |
| Mexican American | --- | 387.1 | 395.8 | 360.2 | 352.3 | 343.2 |
| Puerto Rican | --- | 389.9 | 364.7 | 351.6 | 347.6 | 286.4 |
| Cuban | --- | * | * | * | * | * |
| Central and South American | --- | 331.2 | 342.1 | 347.7 | 313.2 | 338.4 |
| Other and unknown Hispanic | --- | 380.6 | 368.1 | 372.3 | 356.5 | 296.4 |
| Non-Hispanic white ⁴ | --- | 398.8 | 387.4 | 384.0 | 369.4 | 355.5 |
| Non-Hispanic black ⁴ | --- | 372.0 | 370.6 | 360.3 | 345.7 | 340.4 |
| Birth weight 1,500–2,499 grams | | | | | | |
| All mothers | 91.9 | 30.0 | 28.9 | 27.8 | 27.2 | 25.5 |
| White | 93.9 | 31.3 | 30.8 | 28.9 | 28.1 | 26.2 |
| Black | 85.1 | 26.6 | 24.4 | 25.1 | 24.2 | 23.6 |
| American Indian or Alaskan Native | --- | *44.7 | *45.8 | *42.7 | *51.6 | *35.1 |
| Asian or Pacific Islander | --- | 25.3 | 23.8 | 22.5 | 25.5 | 24.5 |
| Chinese | --- | * | * | * | * | * |
| Japanese | --- | * | * | * | * | * |
| Filipino | --- | * | * | * | * | * |
| Other Asian or Pacific Islander ² | --- | 25.8 | 25.5 | 22.5 | 27.6 | 26.6 |
| Hispanic origin ^{3,4} | --- | 26.8 | 29.1 | 27.3 | 25.9 | 24.6 |
| Mexican American | --- | 28.0 | 29.9 | 27.8 | 27.9 | 26.4 |
| Puerto Rican | --- | 24.5 | 28.0 | 26.5 | 22.9 | 19.1 |
| Cuban | --- | * | * | * | * | * |
| Central and South American | --- | *24.0 | *25.4 | *22.4 | 24.1 | 21.7 |
| Other and unknown Hispanic | --- | 28.9 | 29.3 | 30.5 | 22.5 | 26.1 |
| Non-Hispanic white ⁴ | --- | 31.7 | 30.2 | 28.8 | 28.6 | 26.1 |
| Non-Hispanic black ⁴ | --- | 26.7 | 23.4 | 26.1 | 24.5 | 22.6 |
| Birth weight 2,500 grams or more | | | | | | |
| All mothers | 11.2 | 4.5 | 4.3 | 4.2 | 4.1 | 4.0 |
| White | 9.7 | 4.1 | 3.9 | 3.9 | 3.7 | 3.6 |
| Black | 20.2 | 6.9 | 6.3 | 6.2 | 6.2 | 5.9 |
| American Indian or Alaskan Native | --- | 9.1 | 7.6 | 7.3 | 7.5 | 7.6 |
| Asian or Pacific Islander | --- | 3.8 | 4.1 | 3.2 | 3.4 | 3.5 |
| Chinese | --- | * | * | *2.6 | *2.5 | *3.1 |
| Japanese | --- | * | * | * | * | * |
| Filipino | --- | * | *4.5 | *3.4 | *3.6 | 3.8 |
| Other Asian or Pacific Islander ² | --- | 3.7 | 4.2 | 3.5 | 3.6 | 3.5 |
| Hispanic origin ^{3,4} | --- | 4.2 | 3.9 | 3.8 | 3.5 | 3.4 |
| Mexican American | --- | 4.1 | 3.9 | 3.7 | 3.3 | 3.5 |
| Puerto Rican | --- | 5.5 | 5.2 | 4.5 | 4.8 | 3.6 |
| Cuban | --- | * | * | * | * | * |
| Central and South American | --- | 3.5 | 3.3 | 3.3 | 3.2 | 3.3 |
| Other and unknown Hispanic | --- | 4.6 | 4.0 | 4.2 | 3.9 | 3.7 |
| Non-Hispanic white ⁴ | --- | 4.1 | 3.8 | 3.8 | 3.7 | 3.6 |
| Non-Hispanic black ⁴ | --- | 7.1 | 6.5 | 6.2 | 6.4 | 5.9 |

¹Data are shown by race of child in 1960.

²Includes Hawaiians and part Hawaiians.

³Includes mothers of all races.

⁴Data shown only for States with an Hispanic-origin item on their birth certificates. In 1983–87, 23 States and the District of Columbia included this item.

*Birth weight specific infant mortality rates are considered unreliable for groups with fewer than 200 births with birth weight less than 1,500 grams, fewer than 2,000 births with birth weight 1,500–2,499 grams, and fewer than 20,000 births with birth weight 2,500 grams or more. Birth weight specific infant mortality rates are considered highly unreliable and are not shown for groups with fewer than 150 births with birth weight less than 1,500 grams, fewer than 1,500 births with birth weight 1,500–2,499 grams, and fewer than 15,000 births with birth weight 2,500 grams or more.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics: Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics for the National Linked Files of Live Births and Infant Deaths.

Table 20 (page 1 of 2). Infant mortality rates, fetal death rates, and perinatal mortality rates, according to race: United States, selected years 1950–91

[Data are based on the National Vital Statistics System]

| Race and year | Infant mortality rate ¹ | | | | | | |
|------------------------------------|------------------------------------|---------------|--------------|--------------|-------------------------------|------------------------------------|---------------------------------------|
| | Neonatal | | | Postneonatal | Fetal death rate ² | Late fetal death rate ³ | Perinatal mortality rate ⁴ |
| | Total | Under 28 days | Under 7 days | | | | |
| All races | Deaths per 1,000 live births | | | | | | |
| 1950 ⁵ | 29.2 | 20.5 | 17.8 | 8.7 | 18.4 | 14.9 | 32.5 |
| 1960 ⁵ | 26.0 | 18.7 | 16.7 | 7.3 | 15.8 | 12.1 | 28.6 |
| 1970. | 20.0 | 15.1 | 13.6 | 4.9 | 14.0 | 9.5 | 23.0 |
| 1975. | 16.1 | 11.6 | 10.0 | 4.5 | 10.6 | 7.8 | 17.7 |
| 1980. | 12.6 | 8.5 | 7.1 | 4.1 | 9.1 | 6.2 | 13.2 |
| 1981. | 11.9 | 8.0 | 6.7 | 3.9 | 8.9 | 5.9 | 12.6 |
| 1982. | 11.5 | 7.7 | 6.4 | 3.8 | 8.8 | 5.9 | 12.3 |
| 1983. | 11.2 | 7.3 | 6.1 | 3.9 | 8.4 | 5.4 | 11.5 |
| 1984. | 10.8 | 7.0 | 5.9 | 3.8 | 8.1 | 5.2 | 11.0 |
| 1985. | 10.6 | 7.0 | 5.8 | 3.7 | 7.8 | 4.9 | 10.7 |
| 1986. | 10.4 | 6.7 | 5.6 | 3.6 | 7.7 | 4.7 | 10.3 |
| 1987. | 10.1 | 6.5 | 5.4 | 3.6 | 7.6 | 4.6 | 10.0 |
| 1988. | 10.0 | 6.3 | 5.2 | 3.6 | 7.5 | 4.5 | 9.7 |
| 1989. | 9.8 | 6.2 | 5.1 | 3.6 | 7.5 | 4.5 | 9.6 |
| 1990. | 9.2 | 5.8 | 4.8 | 3.4 | 7.5 | 4.3 | 9.1 |
| Provisional data: | | | | | | | |
| 1988 ⁵ | 9.9 | 6.4 | --- | 3.5 | --- | --- | --- |
| 1989 ⁵ | 9.7 | 6.3 | --- | 3.5 | --- | --- | --- |
| 1990 ⁵ | 9.1 | 5.7 | --- | 3.3 | --- | --- | --- |
| 1991 | 8.9 | 5.5 | --- | 3.4 | --- | --- | --- |
| Race of child ⁶ : White | | | | | | | |
| 1950 ⁵ | 26.8 | 19.4 | 17.1 | 7.4 | 16.6 | 13.3 | 30.1 |
| 1960 ⁵ | 22.9 | 17.2 | 15.6 | 5.7 | 13.9 | 10.8 | 26.2 |
| 1970. | 17.8 | 13.8 | 12.5 | 4.0 | 12.3 | 8.6 | 21.0 |
| 1975. | 14.2 | 10.4 | 9.0 | 3.8 | 9.4 | 7.1 | 16.0 |
| 1980. | 11.0 | 7.5 | 6.2 | 3.5 | 8.1 | 5.7 | 11.9 |
| 1981. | 10.5 | 7.1 | 5.9 | 3.4 | 8.0 | 5.4 | 11.3 |
| 1982. | 10.1 | 6.8 | 5.6 | 3.3 | 7.9 | 5.4 | 11.0 |
| 1983. | 9.7 | 6.4 | 5.4 | 3.3 | 7.4 | 5.0 | 10.3 |
| 1984. | 9.4 | 6.2 | 5.1 | 3.3 | 7.3 | 4.8 | 9.9 |
| 1985. | 9.3 | 6.1 | 5.0 | 3.2 | 7.0 | 4.5 | 9.6 |
| 1986. | 8.9 | 5.8 | 4.8 | 3.1 | 6.7 | 4.3 | 9.1 |
| 1987. | 8.6 | 5.5 | 4.5 | 3.1 | 6.6 | 4.2 | 8.7 |
| 1988. | 8.5 | 5.4 | 4.4 | 3.1 | 6.4 | 4.0 | 8.4 |
| 1989. | 8.2 | 5.2 | 4.3 | 3.0 | 6.4 | 4.0 | 8.3 |
| 1990. | 7.7 | 4.9 | 4.0 | 2.8 | 6.4 | 3.8 | 7.8 |
| Race of child ⁶ : Black | | | | | | | |
| 1950 ⁵ | 43.9 | 27.8 | 23.0 | 16.1 | 32.1 | --- | --- |
| 1960 ⁵ | 44.3 | 27.8 | 23.7 | 16.5 | --- | --- | --- |
| 1970. | 32.6 | 22.8 | 20.3 | 9.9 | 23.2 | --- | 34.5 |
| 1975. | 26.2 | 18.3 | 15.7 | 7.9 | 16.8 | 11.4 | 26.9 |
| 1980. | 21.4 | 14.1 | 11.9 | 7.3 | 14.4 | 8.9 | 20.7 |
| 1981. | 20.0 | 13.4 | 11.4 | 6.6 | 13.8 | 8.2 | 19.4 |
| 1982. | 19.6 | 13.1 | 11.1 | 6.6 | 13.8 | 8.1 | 19.1 |
| 1983. | 19.2 | 12.4 | 10.6 | 6.8 | 13.5 | 7.7 | 18.2 |
| 1984. | 18.4 | 11.8 | 10.2 | 6.5 | 12.7 | 7.3 | 17.4 |
| 1985. | 18.2 | 12.1 | 10.3 | 6.1 | 12.6 | 7.1 | 17.4 |
| 1986. | 18.0 | 11.7 | 10.1 | 6.3 | 12.5 | 7.0 | 17.0 |
| 1987. | 17.9 | 11.7 | 10.0 | 6.1 | 12.8 | 7.0 | 16.9 |
| 1988. | 17.6 | 11.5 | 9.8 | 6.2 | 12.7 | 6.8 | 16.5 |
| 1989. | 17.7 | 11.3 | 9.6 | 6.4 | 12.8 | 6.7 | 16.2 |
| 1990. | 17.0 | 10.9 | 9.2 | 6.1 | 12.9 | 6.6 | 15.7 |

See footnotes at end of table.

Table 20 (page 2 of 2). Infant mortality rates, fetal death rates, and perinatal mortality rates, according to race: United States, selected years 1950–91

[Data are based on the National Vital Statistics System]

| Race and year | Infant mortality rate ¹ | | | | | | Perinatal mortality rate ⁴ | |
|-------------------------------------|------------------------------------|------------------------------|--------------|--------------|-------------------------------|------------------------------------|---------------------------------------|--|
| | Neonatal | | | Postneonatal | Fetal death rate ² | Late fetal death rate ³ | | |
| | Total | Under 28 days | Under 7 days | | | | | |
| Race of mother ⁷ : White | | Deaths per 1,000 live births | | | | | | |
| 1980..... | 10.9 | 7.4 | 6.1 | 3.5 | 8.1 | 5.7 | 11.8 | |
| 1981..... | 10.3 | 7.0 | 5.8 | 3.4 | 8.0 | 5.4 | 11.2 | |
| 1982..... | 9.9 | 6.7 | 5.6 | 3.2 | 7.8 | 5.4 | 10.9 | |
| 1983..... | 9.6 | 6.3 | 5.3 | 3.3 | 7.4 | 5.0 | 10.2 | |
| 1984..... | 9.3 | 6.1 | 5.1 | 3.2 | 7.3 | 4.8 | 9.8 | |
| 1985..... | 9.2 | 6.0 | 5.0 | 3.2 | 6.9 | 4.5 | 9.5 | |
| 1986..... | 8.8 | 5.7 | 4.7 | 3.1 | 6.7 | 4.3 | 9.0 | |
| 1987..... | 8.5 | 5.4 | 4.5 | 3.1 | 6.6 | 4.2 | 8.6 | |
| 1988..... | 8.4 | 5.3 | 4.3 | 3.1 | 6.4 | 4.0 | 8.3 | |
| 1989..... | 8.1 | 5.1 | 4.2 | 2.9 | 6.4 | 4.0 | 8.2 | |
| 1990..... | 7.6 | 4.8 | 3.9 | 2.8 | 6.4 | 3.8 | 7.7 | |
| Race of mother ⁷ : Black | | | | | | | | |
| 1980..... | 22.2 | 14.6 | 12.3 | 7.6 | 14.7 | 9.1 | 21.3 | |
| 1981..... | 20.8 | 14.0 | 11.8 | 6.8 | 14.0 | 8.3 | 20.0 | |
| 1982..... | 20.5 | 13.6 | 11.6 | 6.9 | 14.0 | 8.3 | 19.7 | |
| 1983..... | 20.0 | 12.9 | 11.1 | 7.0 | 13.7 | 7.8 | 18.7 | |
| 1984..... | 19.2 | 12.3 | 10.6 | 6.8 | 12.9 | 7.3 | 17.9 | |
| 1985..... | 19.0 | 12.6 | 10.8 | 6.4 | 12.8 | 7.2 | 17.9 | |
| 1986..... | 18.9 | 12.3 | 10.6 | 6.6 | 12.7 | 7.1 | 17.6 | |
| 1987..... | 18.8 | 12.3 | 10.5 | 6.4 | 13.1 | 7.1 | 17.5 | |
| 1988..... | 18.5 | 12.1 | 10.3 | 6.5 | 13.0 | 6.9 | 17.1 | |
| 1989..... | 18.6 | 11.9 | 10.1 | 6.7 | 13.1 | 6.8 | 16.8 | |
| 1990..... | 18.0 | 11.6 | 9.7 | 6.4 | 13.3 | 6.7 | 16.4 | |

¹Infant mortality rate is deaths under 1 year of age per 1,000 live births. Neonatal deaths occur within 28 days and early neonatal deaths within 7 days of birth; postneonatal deaths occur 28–365 days after birth.

²Number of fetal deaths of 20 weeks or more gestation per 1,000 live births plus fetal deaths.

³Number of fetal deaths of 28 weeks or more gestation per 1,000 live births plus late fetal deaths.

⁴Number of late fetal deaths plus infant deaths within 7 days of birth per 1,000 live births plus late fetal deaths.

⁵Includes births and deaths of nonresidents of the United States.

⁶Infant deaths and fetal deaths are tabulated by race of decedent; live births are tabulated by race of child (see Appendix II).

⁷Infant deaths are tabulated by race of decedent; fetal deaths and live births are tabulated by race of mother (see Appendix II).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Vital Statistics of the United States, Vol. II, Mortality, Part A, for data years 1950–90. Public Health Service. Washington. U.S. Government Printing Office. Annual summary of births, marriages, divorces, and deaths, United States, 1989, 1990, and 1991. Monthly Vital Statistics Report. Vols. 38, 39, and 40, No. 13. DHHS Pub. Nos. (PHS) 90-1120, 91-1120, and 92-1120, Aug. 1990, 1991, and 1992; Public Health Service. Hyattsville, Md.; Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics.

Table 21. Infant mortality rates, according to race, geographic division, and State: United States, average annual 1978–80, 1983–85, and 1988–90

[Data are based on the National Vital Statistics System]

| Geographic division and State | All races | | | White ¹ | | | Black ¹ | | |
|-------------------------------------|-----------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| | 1978–80 | 1983–85 | 1988–90 | 1978–80 | 1983–85 | 1988–90 | 1978–80 | 1983–85 | 1988–90 |
| Infant deaths per 1,000 live births | | | | | | | | | |
| United States | 13.1 | 10.9 | 9.7 | 11.3 | 9.4 | 8.0 | 22.9 | 19.4 | 18.4 |
| New England | 11.0 | 9.4 | 7.8 | 10.4 | 8.7 | 7.2 | 21.9 | 20.3 | 16.3 |
| Maine | 9.8 | 8.7 | 7.2 | 9.8 | 8.7 | 7.1 | * | * | * |
| New Hampshire | 10.3 | 9.4 | 7.8 | 10.3 | 9.3 | 7.8 | * | * | * |
| Vermont | 10.9 | 8.6 | 6.7 | 10.9 | 8.6 | 6.7 | * | * | * |
| Massachusetts | 10.8 | 9.0 | 7.5 | 10.3 | 8.4 | 6.9 | 19.8 | 19.3 | 15.1 |
| Rhode Island | 12.9 | 9.9 | 8.8 | 11.8 | 9.4 | 8.5 | *32.3 | *17.7 | *15.0 |
| Connecticut | 11.6 | 10.1 | 8.5 | 10.2 | 8.8 | 7.1 | 22.7 | 21.4 | 18.4 |
| Middle Atlantic | 13.3 | 11.0 | 10.0 | 11.4 | 9.4 | 7.9 | 22.5 | 19.0 | 19.4 |
| New York | 13.4 | 11.1 | 10.3 | 11.4 | 9.5 | 8.2 | 21.6 | 17.5 | 18.7 |
| New Jersey | 12.8 | 11.0 | 9.4 | 10.3 | 9.1 | 7.1 | 23.2 | 19.7 | 19.1 |
| Pennsylvania | 13.4 | 10.9 | 9.9 | 12.0 | 9.3 | 7.8 | 23.9 | 22.3 | 21.6 |
| East North Central | 13.4 | 11.2 | 10.4 | 11.4 | 9.4 | 8.3 | 24.9 | 21.7 | 20.7 |
| Ohio | 13.0 | 10.6 | 9.8 | 11.5 | 9.4 | 8.3 | 22.7 | 19.0 | 18.4 |
| Indiana | 12.7 | 11.1 | 10.3 | 11.4 | 10.2 | 9.2 | 23.9 | 19.7 | 19.4 |
| Illinois | 15.2 | 12.1 | 11.2 | 12.1 | 9.4 | 8.4 | 27.3 | 22.9 | 21.8 |
| Michigan | 13.3 | 11.6 | 10.9 | 11.2 | 9.3 | 8.2 | 24.5 | 23.7 | 22.2 |
| Wisconsin | 10.7 | 9.6 | 8.6 | 10.2 | 8.8 | 7.6 | 18.5 | 18.6 | 17.7 |
| West North Central | 12.0 | 9.7 | 8.6 | 11.0 | 9.0 | 7.6 | 25.3 | 18.7 | 18.6 |
| Minnesota | 10.9 | 9.2 | 7.4 | 10.4 | 9.0 | 6.6 | *30.0 | *21.1 | 23.4 |
| Iowa | 11.7 | 9.1 | 8.3 | 11.3 | 8.9 | 7.9 | *28.2 | *19.4 | *22.4 |
| Missouri | 13.6 | 10.5 | 9.8 | 11.7 | 9.0 | 8.4 | 25.1 | 18.7 | 17.5 |
| North Dakota | 12.5 | 8.5 | 8.9 | 11.9 | 8.1 | 8.4 | * | * | * |
| South Dakota | 11.8 | 10.2 | 9.9 | 10.1 | 8.5 | 8.3 | * | * | * |
| Nebraska | 12.0 | 9.7 | 8.4 | 11.2 | 9.2 | 7.4 | *27.9 | *18.3 | *20.8 |
| Kansas | 11.3 | 9.9 | 8.4 | 10.4 | 9.3 | 7.5 | 22.6 | 18.1 | 17.5 |
| South Atlantic | 15.0 | 12.3 | 11.1 | 11.9 | 9.6 | 8.3 | 22.9 | 19.7 | 18.3 |
| Delaware | 14.7 | 11.9 | 11.2 | 10.8 | 9.1 | 8.5 | 27.6 | 21.2 | 20.4 |
| Maryland | 14.4 | 11.8 | 10.4 | 11.5 | 9.1 | 7.5 | 22.1 | 18.7 | 17.2 |
| District of Columbia | 24.8 | 20.4 | 22.2 | *11.6 | 9.4 | 14.8 | 27.7 | 23.4 | 25.7 |
| Virginia | 14.0 | 11.8 | 10.2 | 11.9 | 9.5 | 7.6 | 21.4 | 20.1 | 18.9 |
| West Virginia | 13.6 | 10.9 | 9.4 | 13.2 | 10.6 | 9.1 | *24.2 | *19.9 | *18.6 |
| North Carolina | 15.4 | 12.4 | 11.4 | 12.0 | 9.8 | 8.7 | 23.3 | 19.0 | 18.1 |
| South Carolina | 17.1 | 14.6 | 12.2 | 12.1 | 10.6 | 8.9 | 24.6 | 21.2 | 17.6 |
| Georgia | 15.0 | 13.0 | 12.4 | 11.3 | 9.7 | 9.0 | 21.6 | 19.3 | 18.6 |
| Florida | 14.5 | 11.4 | 10.0 | 11.9 | 9.1 | 7.9 | 22.5 | 18.9 | 17.0 |
| East South Central | 14.6 | 12.6 | 10.9 | 11.7 | 10.1 | 8.5 | 22.4 | 19.3 | 17.0 |
| Kentucky | 12.4 | 11.4 | 9.4 | 11.5 | 10.7 | 8.7 | 21.3 | 19.8 | 16.8 |
| Tennessee | 14.0 | 12.0 | 10.6 | 12.1 | 9.8 | 8.1 | 20.6 | 20.0 | 18.5 |
| Alabama | 15.2 | 12.9 | 11.7 | 11.7 | 10.1 | 8.9 | 21.7 | 18.3 | 16.9 |
| Mississippi | 17.7 | 14.4 | 12.0 | 11.5 | 9.9 | 8.6 | 24.6 | 19.5 | 15.7 |
| West South Central | 13.7 | 10.9 | 9.2 | 11.8 | 9.6 | 7.9 | 21.7 | 17.1 | 15.5 |
| Arkansas | 14.1 | 11.1 | 10.0 | 11.9 | 9.7 | 8.3 | 20.8 | 15.7 | 15.9 |
| Louisiana | 15.7 | 12.5 | 11.2 | 11.7 | 9.1 | 8.2 | 22.2 | 18.2 | 15.7 |
| Oklahoma | 13.1 | 10.9 | 8.9 | 12.0 | 10.4 | 8.5 | 21.6 | 17.2 | 13.9 |
| Texas | 13.1 | 10.4 | 8.7 | 11.8 | 9.6 | 7.7 | 21.4 | 16.5 | 15.5 |
| Mountain | 11.7 | 9.8 | 8.9 | 11.1 | 9.4 | 8.4 | 23.8 | 18.9 | 18.9 |
| Montana | 11.6 | 9.4 | 9.7 | 10.7 | 8.9 | 8.8 | * | * | * |
| Idaho | 10.8 | 10.3 | 9.1 | 10.8 | 10.3 | 8.8 | * | * | * |
| Wyoming | 11.9 | 11.0 | 9.0 | 11.7 | 10.9 | 9.0 | * | * | * |
| Colorado | 10.6 | 9.9 | 9.0 | 10.3 | 9.5 | 8.7 | 20.6 | 19.1 | 16.6 |
| New Mexico | 13.2 | 10.1 | 9.2 | 12.3 | 9.8 | 8.8 | *26.3 | *15.5 | *19.7 |
| Arizona | 13.0 | 9.6 | 9.3 | 12.0 | 8.9 | 8.6 | *26.0 | 20.8 | 21.7 |
| Utah | 10.8 | 9.2 | 7.8 | 10.7 | 9.1 | 7.5 | * | * | * |
| Nevada | 11.9 | 9.9 | 8.3 | 10.8 | 9.6 | 7.5 | *23.0 | *16.5 | 17.9 |
| Pacific | 11.5 | 9.7 | 8.4 | 10.8 | 9.0 | 7.7 | 20.9 | 18.8 | 18.3 |
| Washington | 11.9 | 10.1 | 8.7 | 11.5 | 9.8 | 8.1 | 21.5 | 22.3 | 21.0 |
| Oregon | 11.9 | 9.8 | 8.6 | 11.7 | 9.6 | 8.3 | *19.1 | *19.2 | *21.0 |
| California | 11.3 | 9.6 | 8.3 | 10.6 | 8.9 | 7.6 | 21.0 | 18.5 | 18.2 |
| Alaska | 14.2 | 11.5 | 10.4 | 11.5 | 9.4 | 8.0 | *21.6 | *24.5 | *16.7 |
| Hawaii | 10.5 | 9.4 | 7.4 | 8.0 | 6.5 | 4.7 | *17.6 | *21.8 | *13.4 |

¹Deaths are tabulated by race of decedent; live births are tabulated by race of mother.

*Data for States with fewer than 5,000 live births for the 3-year period are considered unreliable. Data for States with fewer than 1,000 live births are considered highly unreliable and are not shown.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics: Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics.

Table 22. Neonatal mortality rates, according to race, geographic division, and State: United States, average annual 1978–80, 1983–85, and 1988–90

[Data are based on the National Vital Statistics System]

| Geographic division and State | All races | | | White ¹ | | | Black ¹ | | |
|---------------------------------------|-----------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| | 1978–80 | 1983–85 | 1988–90 | 1978–80 | 1983–85 | 1988–90 | 1978–80 | 1983–85 | 1988–90 |
| Neonatal deaths per 1,000 live births | | | | | | | | | |
| United States | 8.9 | 7.1 | 6.1 | 7.8 | 6.1 | 5.1 | 15.1 | 12.6 | 11.8 |
| New England | 8.1 | 6.7 | 5.4 | 7.6 | 6.2 | 4.9 | 16.2 | 14.7 | 11.3 |
| Maine | 5.9 | 5.8 | 4.9 | 6.0 | 5.8 | 4.9 | * | * | * |
| New Hampshire | 7.7 | 6.4 | 4.7 | 7.7 | 6.4 | 4.7 | * | * | * |
| Vermont | 7.1 | 5.7 | 4.2 | 7.0 | 5.7 | 4.3 | * | * | * |
| Massachusetts | 8.0 | 6.4 | 5.2 | 7.6 | 5.9 | 4.7 | 14.2 | 13.0 | 10.6 |
| Rhode Island | 9.7 | 7.3 | 6.6 | 9.2 | 7.0 | 6.4 | *18.6 | *12.8 | *10.1 |
| Connecticut | 8.9 | 7.7 | 6.0 | 7.7 | 6.6 | 5.1 | 18.0 | 16.5 | 12.7 |
| Middle Atlantic | 9.6 | 7.5 | 6.8 | 8.4 | 6.6 | 5.5 | 15.3 | 12.2 | 12.7 |
| New York | 9.5 | 7.6 | 7.0 | 8.3 | 6.7 | 5.7 | 14.7 | 11.1 | 12.4 |
| New Jersey | 9.0 | 7.5 | 6.3 | 7.6 | 6.5 | 5.0 | 15.1 | 12.2 | 11.9 |
| Pennsylvania | 9.9 | 7.6 | 6.7 | 9.0 | 6.5 | 5.4 | 16.7 | 15.1 | 14.3 |
| East North Central | 9.1 | 7.5 | 6.7 | 7.9 | 6.3 | 5.4 | 16.3 | 14.2 | 13.2 |
| Ohio | 8.9 | 7.1 | 6.2 | 8.0 | 6.3 | 5.3 | 15.2 | 12.3 | 11.4 |
| Indiana | 8.6 | 7.4 | 6.4 | 7.8 | 6.8 | 5.7 | 15.5 | 12.9 | 12.4 |
| Illinois | 10.4 | 8.1 | 7.3 | 8.6 | 6.5 | 5.6 | 17.5 | 14.3 | 13.4 |
| Michigan | 9.0 | 7.9 | 7.3 | 7.5 | 6.3 | 5.2 | 16.8 | 16.9 | 15.6 |
| Wisconsin | 7.2 | 6.1 | 5.1 | 6.9 | 5.6 | 4.7 | 11.0 | 11.8 | 9.1 |
| West North Central | 8.2 | 6.1 | 5.2 | 7.6 | 5.7 | 4.7 | 17.0 | 11.8 | 10.8 |
| Minnesota | 7.2 | 5.7 | 4.4 | 7.0 | 5.6 | 4.1 | *17.8 | *13.4 | 13.5 |
| Iowa | 8.0 | 5.8 | 5.2 | 7.8 | 5.7 | 4.9 | *19.3 | *11.8 | *15.6 |
| Missouri | 9.5 | 6.7 | 6.0 | 8.2 | 5.7 | 5.2 | 17.0 | 12.0 | 10.0 |
| North Dakota | 8.7 | 5.3 | 5.3 | 8.6 | 5.2 | 5.2 | * | * | * |
| South Dakota | 6.9 | 5.6 | 5.1 | 6.5 | 5.2 | 4.8 | * | * | * |
| Nebraska | 8.2 | 6.3 | 4.9 | 7.7 | 6.0 | 4.3 | *18.3 | *11.8 | *12.4 |
| Kansas | 7.8 | 6.2 | 4.9 | 7.2 | 5.9 | 4.4 | 15.5 | 10.6 | 10.0 |
| South Atlantic | 10.3 | 8.3 | 7.4 | 8.3 | 6.4 | 5.4 | 15.3 | 13.2 | 12.4 |
| Delaware | 11.0 | 8.4 | 8.1 | 7.7 | 6.5 | 6.1 | 22.1 | 14.5 | 14.7 |
| Maryland | 10.5 | 8.2 | 6.9 | 8.4 | 6.2 | 4.8 | 16.1 | 13.3 | 11.8 |
| District of Columbia | 18.7 | 15.4 | 16.2 | *9.3 | 7.6 | 9.8 | 20.7 | 17.6 | 18.9 |
| Virginia | 10.1 | 8.3 | 7.0 | 8.5 | 6.6 | 5.0 | 15.5 | 14.4 | 13.4 |
| West Virginia | 9.1 | 7.2 | 6.2 | 8.8 | 6.9 | 6.0 | *17.1 | *13.9 | *11.1 |
| North Carolina | 10.6 | 8.2 | 7.6 | 8.5 | 6.5 | 5.6 | 15.5 | 12.4 | 12.4 |
| South Carolina | 11.5 | 9.9 | 8.1 | 8.6 | 7.1 | 5.9 | 16.0 | 14.3 | 11.6 |
| Georgia | 9.9 | 8.8 | 8.2 | 7.9 | 6.6 | 5.8 | 13.6 | 13.0 | 12.5 |
| Florida | 9.7 | 7.3 | 6.5 | 8.2 | 6.0 | 5.2 | 14.0 | 11.7 | 11.0 |
| East South Central | 9.7 | 8.2 | 6.8 | 8.0 | 6.7 | 5.3 | 14.4 | 12.3 | 10.8 |
| Kentucky | 8.2 | 7.6 | 5.4 | 7.6 | 7.1 | 4.9 | 14.1 | 13.0 | 10.3 |
| Tennessee | 9.6 | 8.0 | 6.6 | 8.2 | 6.3 | 5.0 | 14.3 | 14.0 | 12.0 |
| Alabama | 10.1 | 8.4 | 7.8 | 8.1 | 6.9 | 6.1 | 13.7 | 11.4 | 11.0 |
| Mississippi | 11.4 | 8.9 | 7.5 | 8.0 | 6.5 | 5.5 | 15.2 | 11.7 | 9.7 |
| West South Central | 9.1 | 6.9 | 5.6 | 8.0 | 6.1 | 4.8 | 14.0 | 10.8 | 9.5 |
| Arkansas | 8.7 | 6.7 | 5.9 | 7.6 | 6.0 | 4.9 | 11.9 | 9.2 | 9.3 |
| Louisiana | 10.7 | 8.2 | 7.0 | 8.3 | 6.1 | 5.2 | 14.7 | 11.8 | 9.8 |
| Oklahoma | 8.3 | 6.9 | 5.0 | 7.8 | 6.6 | 4.9 | 13.0 | 10.9 | 7.4 |
| Texas | 8.8 | 6.5 | 5.4 | 8.0 | 6.1 | 4.7 | 14.2 | 10.3 | 9.6 |
| Mountain | 7.5 | 5.7 | 5.1 | 7.3 | 5.5 | 4.8 | 14.8 | 11.4 | 11.4 |
| Montana | 7.4 | 4.6 | 4.9 | 7.1 | 4.4 | 4.7 | * | * | * |
| Idaho | 6.7 | 5.7 | 4.8 | 6.7 | 5.7 | 4.7 | * | * | * |
| Wyoming | 7.5 | 6.2 | 4.5 | 7.5 | 6.1 | 4.4 | * | * | * |
| Colorado | 6.6 | 5.7 | 5.3 | 6.4 | 5.4 | 5.0 | 13.1 | 11.9 | 11.4 |
| New Mexico | 8.4 | 5.9 | 5.6 | 8.3 | 5.9 | 5.5 | *14.8 | *8.4 | *10.2 |
| Arizona | 8.8 | 5.8 | 5.6 | 8.5 | 5.6 | 5.4 | *17.4 | 12.7 | 13.7 |
| Utah | 7.0 | 5.5 | 4.0 | 7.0 | 5.4 | 3.9 | * | * | * |
| Nevada | 7.2 | 5.5 | 4.1 | 6.6 | 5.3 | 3.8 | *13.7 | *9.0 | 8.9 |
| Pacific | 7.4 | 6.0 | 5.0 | 6.9 | 5.6 | 4.6 | 13.6 | 11.9 | 10.8 |
| Washington | 7.3 | 5.7 | 4.6 | 7.2 | 5.5 | 4.4 | 12.0 | 13.0 | 11.4 |
| Oregon | 7.1 | 5.2 | 4.6 | 7.0 | 5.1 | 4.5 | *12.1 | *10.1 | *10.3 |
| California | 7.4 | 6.1 | 5.1 | 6.9 | 5.7 | 4.7 | 13.8 | 11.8 | 10.8 |
| Alaska | 8.5 | 5.8 | 4.8 | 7.4 | 4.9 | 3.9 | *15.7 | *15.0 | *8.3 |
| Hawaii | 7.2 | 6.2 | 4.5 | 5.6 | 4.6 | 2.9 | *10.2 | *13.0 | *8.4 |

¹Deaths are tabulated by race of decedent; live births are tabulated by race of mother.

*Data for States with fewer than 5,000 live births for the 3-year period are considered unreliable. Data for States with fewer than 1,000 live births are considered highly unreliable and are not shown.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics: Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics.

Table 23. Postneonatal mortality rates, according to race, geographic division, and State: United States, average annual 1978–80, 1983–85, and 1988–90

[Data are based on the National Vital Statistics System]

| Geographic division and State | All races | | | White ¹ | | | Black ¹ | | |
|---|-----------|---------|---------|--------------------|---------|---------|--------------------|----------|---------|
| | 1978–80 | 1983–85 | 1988–90 | 1978–80 | 1983–85 | 1988–90 | 1978–80 | 1983–85 | 1988–90 |
| Postneonatal deaths per 1,000 live births | | | | | | | | | |
| United States | 4.2 | 3.8 | 3.5 | 3.5 | 3.2 | 2.9 | 7.7 | 6.8 | 6.5 |
| New England | 3.0 | 2.7 | 2.4 | 2.8 | 2.5 | 2.2 | 5.7 | 5.6 | 5.0 |
| Maine | 3.9 | 2.9 | 2.2 | 3.9 | 2.9 | 2.2 | * * | * * | * |
| New Hampshire | 2.5 | 3.0 | 3.1 | 2.5 | 3.0 | 3.1 | * * | * * | * |
| Vermont | 3.8 | 3.0 | 2.5 | 3.8 | 2.9 | 2.5 | * * | * * | * |
| Massachusetts | 2.8 | 2.7 | 2.3 | 2.7 | 2.4 | 2.1 | 5.6 | 6.3 | 4.5 |
| Rhode Island | 3.1 | 2.6 | 2.2 | 2.5 | 2.4 | 2.1 | * * | * * | *4.9 |
| Connecticut | 2.7 | 2.5 | 2.5 | 2.5 | 2.2 | 2.0 | 4.7 | 4.9 | 5.7 |
| Middle Atlantic | 3.7 | 3.5 | 3.2 | 3.0 | 2.8 | 2.4 | 7.2 | 6.8 | 6.7 |
| New York | 3.9 | 3.6 | 3.3 | 3.1 | 2.8 | 2.5 | 6.9 | 6.4 | 6.3 |
| New Jersey | 3.8 | 3.5 | 3.1 | 2.7 | 2.6 | 2.1 | 8.1 | 7.5 | 7.2 |
| Pennsylvania | 3.5 | 3.3 | 3.2 | 3.0 | 2.8 | 2.5 | 7.2 | 7.2 | 7.3 |
| East North Central | 4.3 | 3.7 | 3.8 | 3.5 | 3.1 | 3.0 | 8.6 | 7.5 | 7.6 |
| Ohio | 4.1 | 3.6 | 3.6 | 3.6 | 3.1 | 3.0 | 7.6 | 6.7 | 7.1 |
| Indiana | 4.1 | 3.8 | 3.9 | 3.6 | 3.4 | 3.6 | 8.4 | 6.8 | 7.0 |
| Illinois | 4.8 | 4.0 | 4.0 | 3.4 | 2.8 | 2.8 | 9.9 | 8.6 | 8.4 |
| Michigan | 4.3 | 3.7 | 3.7 | 3.7 | 3.1 | 2.9 | 7.7 | 6.8 | 6.6 |
| Wisconsin | 3.6 | 3.5 | 3.5 | 3.3 | 3.2 | 2.9 | 7.5 | 6.8 | 8.5 |
| West North Central | 3.9 | 3.6 | 3.5 | 3.4 | 3.3 | 3.0 | 8.4 | 6.9 | 7.8 |
| Minnesota | 3.7 | 3.5 | 3.0 | 3.4 | 3.3 | 2.6 | *12.2 | *7.7 | *9.9 |
| Iowa | 3.6 | 3.3 | 3.1 | 3.5 | 3.2 | 3.0 | *8.9 | *7.6 | *6.8 |
| Missouri | 4.2 | 3.8 | 3.8 | 3.5 | 3.3 | 3.1 | 8.1 | 6.7 | 7.5 |
| North Dakota | 3.7 | 3.2 | 3.6 | 3.4 | 2.9 | 3.1 | * | * | * |
| South Dakota | 4.9 | 4.7 | 4.8 | 3.6 | 3.4 | 3.5 | * | * | * |
| Nebraska | 3.9 | 3.4 | 3.5 | 3.5 | 3.1 | 3.1 | *9.6 | *6.6 | *8.4 |
| Kansas | 3.6 | 3.7 | 3.5 | 3.3 | 3.4 | 3.1 | *7.1 | *7.5 | *7.5 |
| South Atlantic | 4.7 | 4.1 | 3.7 | 3.5 | 3.1 | 2.9 | 7.6 | 6.5 | 5.9 |
| Delaware | 3.7 | 3.5 | 3.1 | 3.2 | 2.6 | 2.4 | *5.5 | *6.7 | *5.7 |
| Maryland | 3.9 | 3.7 | 3.5 | 3.1 | 3.0 | 2.7 | 5.9 | 5.4 | 5.3 |
| District of Columbia | 6.2 | 5.0 | 6.1 | *2.2 | *1.8 | *5.0 | 7.0 | 5.8 | 6.8 |
| Virginia | 3.9 | 3.5 | 3.2 | 3.4 | 2.9 | 2.5 | 5.9 | 5.7 | 5.5 |
| West Virginia | 4.4 | 3.7 | 3.3 | 4.4 | 3.6 | 3.1 | *7.0 | *6.0 | *7.5 |
| North Carolina | 4.8 | 4.2 | 3.8 | 3.5 | 3.3 | 3.1 | 7.8 | 6.6 | 5.7 |
| South Carolina | 5.6 | 4.8 | 4.2 | 3.5 | 3.5 | 3.0 | 8.6 | 6.9 | 6.0 |
| Georgia | 5.1 | 4.2 | 4.3 | 3.4 | 3.1 | 3.2 | 8.0 | 6.3 | 6.2 |
| Florida | 4.9 | 4.1 | 3.5 | 3.7 | 3.1 | 2.7 | 8.4 | 7.2 | 6.1 |
| East South Central | 4.9 | 4.4 | 4.1 | 3.8 | 3.4 | 3.3 | 8.0 | 7.0 | 6.1 |
| Kentucky | 4.2 | 3.9 | 4.0 | 3.9 | 3.6 | 3.8 | 7.2 | 6.7 | 6.5 |
| Tennessee | 4.4 | 4.0 | 4.0 | 3.9 | 3.5 | 3.2 | 6.3 | 6.0 | 6.5 |
| Alabama | 5.1 | 4.4 | 3.9 | 3.6 | 3.2 | 2.8 | 8.0 | 6.9 | 5.9 |
| Mississippi | 6.3 | 5.5 | 4.5 | 3.5 | 3.5 | 3.1 | 9.4 | 7.8 | 6.0 |
| West South Central | 4.5 | 4.0 | 3.6 | 3.8 | 3.5 | 3.1 | 7.6 | 6.3 | 6.0 |
| Arkansas | 5.4 | 4.4 | 4.1 | 4.3 | 3.7 | 3.4 | 8.9 | 6.5 | 6.6 |
| Louisiana | 5.0 | 4.2 | 4.2 | 3.4 | 2.9 | 3.0 | 7.5 | 6.4 | 5.9 |
| Oklahoma | 4.8 | 4.0 | 3.9 | 4.1 | 3.8 | 3.6 | 8.6 | 6.3 | 6.4 |
| Texas | 4.2 | 3.9 | 3.4 | 3.8 | 3.6 | 3.0 | 7.3 | 6.2 | 5.8 |
| Mountain | 4.2 | 4.1 | 3.8 | 3.8 | 3.9 | 3.6 | 9.0 | 7.5 | 7.5 |
| Montana | 4.2 | 4.8 | 4.8 | 3.6 | 4.5 | 4.1 | * | * | * |
| Idaho | 4.1 | 4.6 | 4.2 | 4.1 | 4.6 | 4.1 | * | * | * |
| Wyoming | 4.4 | 4.8 | 4.5 | 4.2 | 4.9 | 4.6 | * | * | * |
| Colorado | 4.0 | 4.1 | 3.7 | 3.8 | 4.1 | 3.7 | *7.6 | *7.2 | *5.3 |
| New Mexico | 4.8 | 4.2 | 3.6 | 4.0 | 3.9 | 3.3 | * | * | * |
| Arizona | 4.3 | 3.8 | 3.6 | 3.5 | 3.3 | 3.2 | *8.7 | *8.1 | *8.0 |
| Utah | 3.8 | 3.7 | 3.8 | 3.7 | 3.7 | 3.6 | * | * | * |
| Nevada | 4.6 | 4.4 | 4.2 | 4.2 | 4.3 | 3.7 | *9.3 | *7.5 | *9.1 |
| Pacific | 4.1 | 3.7 | 3.4 | 3.9 | 3.5 | 3.1 | 7.3 | 6.9 | 7.5 |
| Washington | 4.6 | 4.5 | 4.1 | 4.3 | 4.2 | 3.7 | *9.6 | *9.3 | *9.6 |
| Oregon | 4.8 | 4.6 | 4.0 | 4.8 | 4.5 | 3.7 | * | * | *10.7 |
| California | 3.9 | 3.5 | 3.3 | 3.7 | 3.2 | 3.0 | 7.2 | 6.7 | 7.4 |
| Alaska | 5.7 | 5.7 | 5.6 | 4.1 | 4.4 | 4.1 | * | * | * |
| Hawaii | 3.3 | 3.2 | 2.9 | 2.4 | 1.9 | 1.8 | * | * | * |

¹Deaths are tabulated by race of decedent; live births are tabulated by race of mother.

*Data for States with fewer than 10,000 live births for the 3-year period are considered unreliable. Data for States with fewer than 2,500 live births are considered highly unreliable and are not shown.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics: Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics.

Table 24. Fetal death rates, according to race, geographic division, and State: United States, average annual 1978–80, 1983–85, and 1988–90

[Data are based on the National Vital Statistics System]

| Geographic division and State | All races | | | White ¹ | | | Black ¹ | | |
|---|-----------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| | 1978–80 | 1983–85 | 1988–90 | 1978–80 | 1983–85 | 1988–90 | 1978–80 | 1983–85 | 1988–90 |
| Fetal deaths ² per 1,000 live births plus fetal deaths | | | | | | | | | |
| United States | 9.4 | 8.1 | 7.5 | 8.2 | 7.2 | 6.4 | 15.2 | 13.2 | 13.1 |
| New England | 7.1 | 6.8 | 6.3 | 6.9 | 6.5 | 5.8 | 10.5 | 12.1 | 12.3 |
| Maine | 8.1 | 6.7 | 5.9 | 7.9 | 6.7 | 5.7 | * ³ | * | * |
| New Hampshire | 6.1 | 6.0 | 6.2 | 6.1 | 6.1 | 6.2 | * | * | * |
| Vermont | 6.7 | 6.8 | 5.5 | 6.7 | 6.7 | 5.3 | * | * | * |
| Massachusetts | 6.0 | 6.8 | 6.0 | 6.0 | 6.3 | 5.5 | 6.2 | 13.6 | 11.7 |
| Rhode Island | 10.6 | 7.6 | 6.9 | 10.1 | 7.7 | 6.7 | *19.2 | *8.2 | *11.5 |
| Connecticut | 8.1 | 6.9 | 7.0 | 7.4 | 6.3 | 6.2 | 13.5 | 11.6 | 12.6 |
| Middle Atlantic | 10.8 | 9.4 | 9.1 | 9.5 | 8.4 | 7.6 | 16.9 | 14.2 | 15.7 |
| New York | 11.4 | 9.9 | 9.9 | 10.2 | 8.9 | 8.1 | 16.0 | 14.3 | 16.6 |
| New Jersey | 9.2 | 8.0 | 7.9 | 7.7 | 6.9 | 6.3 | 15.1 | 13.0 | 14.4 |
| Pennsylvania | 11.0 | 9.4 | 8.8 | 9.6 | 8.6 | 7.8 | 21.1 | 15.4 | 14.6 |
| East North Central | 8.6 | 7.3 | 6.7 | 7.7 | 6.6 | 5.9 | 13.5 | 11.3 | 10.9 |
| Ohio | 8.9 | 7.6 | 6.9 | 8.2 | 7.0 | 6.4 | 13.3 | 12.0 | 10.2 |
| Indiana | 8.8 | 7.5 | 7.3 | 8.2 | 7.0 | 6.8 | 13.9 | 11.6 | 11.4 |
| Illinois | 9.4 | 8.1 | 7.5 | 8.0 | 7.0 | 6.2 | 14.8 | 12.5 | 12.4 |
| Michigan | 7.8 | 6.1 | 5.4 | 7.0 | 5.7 | 4.6 | 12.1 | 8.0 | 8.6 |
| Wisconsin | 6.9 | 6.6 | 6.2 | 6.8 | 6.1 | 5.5 | 8.6 | 13.4 | 12.9 |
| West North Central | 8.3 | 7.0 | 6.4 | 7.8 | 6.6 | 5.9 | 14.2 | 11.5 | 11.5 |
| Minnesota | 7.1 | 6.8 | 6.3 | 7.0 | 6.6 | 5.9 | *11.8 | *13.2 | 13.4 |
| Iowa | 7.5 | 6.7 | 6.6 | 7.3 | 6.7 | 6.4 | *13.0 | *9.8 | *12.8 |
| Missouri | 9.4 | 7.3 | 6.6 | 8.5 | 6.7 | 5.7 | 14.8 | 11.1 | 11.1 |
| North Dakota | 9.0 | 6.3 | 6.8 | 8.8 | 6.1 | 6.7 | * | * | * |
| South Dakota | 8.6 | 7.1 | 6.3 | 7.7 | 6.5 | 5.8 | * | * | * |
| Nebraska | 8.7 | 7.4 | 6.5 | 8.4 | 7.1 | 6.1 | *14.8 | *11.1 | *12.2 |
| Kansas | 8.4 | 7.1 | 5.8 | 8.0 | 6.6 | 5.4 | 13.1 | 12.9 | 10.9 |
| South Atlantic | 11.5 | 10.0 | 9.1 | 9.4 | 8.2 | 6.9 | 16.5 | 14.9 | 14.6 |
| Delaware | 8.0 | 7.4 | 6.8 | 6.9 | 6.7 | 5.9 | 11.5 | 10.1 | 9.8 |
| Maryland | 8.9 | 8.6 | 7.5 | 7.0 | 7.0 | 5.5 | 13.9 | 12.7 | 12.2 |
| District of Columbia | 14.2 | 13.6 | 13.0 | *11.6 | 8.8 | 7.0 | 14.8 | 14.9 | 15.3 |
| Virginia | 13.9 | 10.8 | 9.3 | 11.9 | 8.9 | 7.5 | 20.7 | 17.3 | 15.2 |
| West Virginia | 9.9 | 8.8 | 7.9 | 9.5 | 8.6 | 7.6 | *19.2 | *13.3 | *15.2 |
| North Carolina | 10.7 | 9.0 | 8.5 | 8.5 | 7.5 | 6.6 | 15.8 | 12.6 | 13.3 |
| South Carolina | 12.6 | 11.5 | 10.3 | 9.4 | 8.6 | 7.3 | 17.3 | 16.3 | 15.1 |
| Georgia | 14.1 | 12.2 | 11.4 | 11.7 | 9.8 | 8.1 | 18.3 | 16.9 | 17.4 |
| Florida | 9.8 | 9.2 | 8.3 | 8.3 | 7.6 | 6.5 | 14.2 | 14.3 | 13.9 |
| East South Central | 11.0 | 9.5 | 8.4 | 8.8 | 7.8 | 6.7 | 16.5 | 14.1 | 13.0 |
| Kentucky | 9.6 | 8.3 | 8.1 | 9.0 | 7.7 | 7.6 | 14.9 | 14.5 | 12.7 |
| Tennessee | 9.8 | 7.5 | 6.0 | 8.5 | 7.0 | 5.1 | 14.3 | 9.4 | 9.0 |
| Alabama | 11.2 | 10.4 | 10.3 | 8.9 | 8.2 | 7.8 | 15.4 | 14.6 | 14.9 |
| Mississippi | 14.2 | 12.6 | 10.3 | 9.2 | 8.9 | 6.6 | 19.6 | 16.8 | 14.4 |
| West South Central | 9.0 | 7.9 | 7.0 | 8.0 | 7.1 | 6.1 | 13.5 | 11.6 | 10.8 |
| Arkansas | 10.3 | 7.5 | 7.7 | 8.5 | 6.5 | 6.3 | 15.4 | 10.8 | 11.9 |
| Louisiana | 10.4 | 9.0 | 8.2 | 7.7 | 6.8 | 6.5 | 14.9 | 12.7 | 10.8 |
| Oklahoma | 9.3 | 8.1 | 7.5 | 8.4 | 7.6 | 6.8 | 16.5 | 10.0 | 11.9 |
| Texas | 8.3 | 7.7 | 6.5 | 7.9 | 7.2 | 5.9 | 11.3 | 11.1 | 10.4 |
| Mountain | 8.1 | 7.4 | 6.3 | 7.9 | 7.2 | 6.0 | 14.1 | 12.7 | 12.3 |
| Montana | 7.9 | 7.2 | 7.3 | 7.6 | 7.0 | 6.8 | * | * | * |
| Idaho | 7.3 | 7.3 | 6.7 | 7.4 | 7.2 | 6.6 | * | * | * |
| Wyoming | 7.4 | 6.9 | 7.2 | 7.4 | 6.7 | 7.1 | * | * | * |
| Colorado | 9.9 | 9.1 | 7.1 | 9.5 | 8.9 | 6.8 | 18.9 | 14.6 | 11.8 |
| New Mexico | 8.2 | 6.7 | 4.9 | 7.9 | 6.8 | 4.6 | *11.9 | *7.7 | *8.8 |
| Arizona | 7.5 | 6.7 | 5.9 | 7.2 | 6.4 | 5.6 | *12.1 | 10.2 | 11.6 |
| Utah | 7.4 | 6.8 | 5.4 | 7.4 | 6.7 | 5.4 | * | * | * |
| Nevada | 7.9 | 7.1 | 8.1 | 7.3 | 6.6 | 7.3 | *10.4 | *15.5 | 15.9 |
| Pacific | 8.1 | 6.8 | 6.5 | 7.6 | 6.4 | 6.0 | 13.8 | 11.1 | 12.2 |
| Washington | 7.5 | 6.4 | 5.4 | 7.4 | 6.2 | 5.3 | 13.7 | 10.3 | 10.1 |
| Oregon | 7.4 | 6.4 | 5.8 | 7.3 | 6.5 | 5.7 | *10.7 | *7.4 | *8.0 |
| California | 8.1 | 6.8 | 6.6 | 7.6 | 6.5 | 6.2 | 13.9 | 11.2 | 12.4 |
| Alaska | 8.8 | 6.0 | 5.2 | 7.9 | 5.9 | 4.2 | *13.6 | *12.5 | *12.1 |
| Hawaii | 11.2 | 9.0 | 7.5 | 12.7 | 8.3 | 7.9 | *17.3 | *10.3 | *12.3 |

¹Fetal deaths and live births are tabulated by race of mother.

²Deaths of fetuses of 20 weeks or more gestation.

*Data for States with fewer than 5,000 live births for the 3-year period are considered unreliable. Data for States with fewer than 1,000 live births are considered highly unreliable and are not shown.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics: Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics.

Table 25. Infant mortality rates, feto-infant mortality rates, and postneonatal mortality rates, and average annual percent change: Selected countries, 1984 and 1989

[Data are based on reporting by countries]

| Country ⁴ | Infant mortality rate ¹ | | | Feto-infant mortality rate ² | | | Postneonatal mortality rate ³ | | |
|---------------------------------------|------------------------------------|-------------------|-------------------------------|---|-------------------|-------------------------------|--|-------------------|-------------------------------|
| | 1984 | 1989 ⁵ | Average annual percent change | 1984 ⁶ | 1989 ⁷ | Average annual percent change | 1984 ⁸ | 1989 ⁹ | Average annual percent change |
| Japan | 5.99 | 4.59 | -5.2 | 11.77 | 8.62 | -6.0 | 2.28 | 2.01 | -2.5 |
| Sweden | 6.40 | 5.77 | -2.1 | 10.42 | 9.39 | -2.1 | 2.29 | 2.03 | -2.4 |
| Finland | 6.62 | 6.03 | -1.8 | 10.58 | 10.46 | -0.2 | 2.15 | 1.91 | -2.3 |
| Singapore | 8.76 | 6.61 | -5.5 | 14.52 | 10.92 | -5.5 | 2.62 | 2.01 | -5.2 |
| Netherlands | 8.36 | 6.78 | -4.1 | 14.22 | 12.53 | -2.5 | 3.24 | 2.20 | -7.5 |
| Northern Ireland | 10.51 | 6.90 | -8.1 | 16.33 | 11.94 | -6.1 | 3.79 | 2.91 | -5.1 |
| Canada | 8.11 | 7.13 | -2.5 | 12.51 | 11.23 | -2.1 | 2.96 | 2.47 | -3.6 |
| Switzerland | 7.13 | 7.34 | 0.6 | 11.79 | 11.38 | -0.7 | 2.94 | 2.91 | -0.2 |
| Hong Kong | 9.17 | 7.43 | -4.1 | 13.38 | 11.92 | -2.3 | 2.93 | 2.64 | -1.7 |
| Federal Republic of Germany | 9.64 | 7.44 | -5.0 | 13.98 | 10.88 | -4.9 | 4.15 | 3.45 | -3.6 |
| France | 8.29 | 7.54 | -1.9 | 15.84 | 13.66 | -2.9 | 3.63 | 3.70 | 0.4 |
| Ireland | 9.63 | 7.55 | -4.8 | 17.94 | 13.85 | -5.0 | 3.67 | 3.21 | -2.6 |
| German Democratic Republic | 10.05 | 7.56 | -5.5 | 15.38 | 12.73 | -3.7 | 3.34 | 2.89 | -2.9 |
| Norway | 8.33 | 7.72 | -1.5 | 13.46 | 12.58 | -1.3 | 3.96 | 3.96 | 0.0 |
| Denmark | 7.66 | 7.95 | 0.7 | 12.05 | 13.01 | 1.5 | 2.97 | 3.31 | 2.2 |
| Australia | 9.25 | 7.99 | -2.9 | 14.27 | 13.89 | -0.5 | 3.77 | 3.29 | -2.7 |
| Spain | 10.02 | 8.07 | -5.3 | 16.13 | 13.30 | -4.7 | 3.20 | 2.95 | -2.7 |
| Austria | 11.41 | 8.31 | -6.1 | 15.92 | 12.18 | -5.2 | 4.52 | 3.45 | -5.3 |
| England and Wales | 9.48 | 8.45 | -2.3 | 15.11 | 13.09 | -2.8 | 3.91 | 3.69 | -1.2 |
| Belgium | 9.84 | 8.64 | -2.6 | 16.47 | 15.58 | -1.8 | 4.04 | 4.05 | 0.0 |
| Scotland | 10.32 | 8.73 | -3.3 | 16.05 | 13.68 | -3.1 | 3.93 | 4.00 | 0.4 |
| Italy | 11.44 | 8.80 | -5.1 | 18.41 | 14.66 | -4.5 | 2.38 | 2.08 | -3.3 |
| Greece | 14.34 | 9.78 | -7.4 | 23.12 | 17.76 | -5.1 | 3.52 | 3.15 | -2.2 |
| United States | 10.79 | 9.81 | -1.9 | 15.92 | 14.13 | -2.4 | 3.79 | 3.59 | -1.1 |
| Israel | 12.80 | 9.94 | -4.9 | 18.28 | 14.81 | -4.1 | 4.96 | 3.44 | -7.1 |
| New Zealand | 11.70 | 10.19 | -2.7 | 16.80 | 14.72 | -2.6 | 7.13 | 5.78 | -4.1 |
| Cuba | 15.01 | 11.08 | -5.9 | 26.33 | 22.67 | -2.9 | 5.08 | 3.91 | -5.1 |
| Czechoslovakia | 15.32 | 11.31 | -5.9 | 20.26 | 15.52 | -5.2 | 4.86 | 3.47 | -6.5 |
| Portugal | 16.73 | 12.18 | -6.2 | 26.31 | 20.00 | -5.3 | 5.41 | 4.12 | -5.3 |
| Costa Rica | 20.25 | 13.90 | -7.2 | 30.44 | 23.20 | -6.6 | 8.49 | 5.32 | -11.0 |
| Puerto Rico | 15.61 | 14.27 | -1.8 | 25.97 | 23.35 | -2.1 | 3.13 | 3.09 | -0.3 |
| Bulgaria | 16.09 | 14.37 | -2.2 | 22.80 | 20.21 | -2.4 | 7.18 | 7.05 | -0.4 |
| Hungary | 20.41 | 15.74 | -5.1 | 26.61 | 20.93 | -4.7 | 4.57 | 4.05 | -2.4 |
| Poland | 19.23 | 15.96 | -3.7 | 25.09 | 21.37 | -3.2 | 5.91 | 4.44 | -5.6 |
| Chile | 19.55 | 17.06 | -2.7 | 25.48 | 23.36 | -1.7 | 10.31 | 7.96 | -5.0 |
| Kuwait | 18.55 | 17.33 | -2.2 | 27.98 | 25.14 | -5.2 | 6.96 | 5.22 | -9.1 |
| Yugoslavia | 27.67 | 22.21 | -4.3 | 33.64 | 27.23 | -4.1 | 12.03 | 8.92 | -5.8 |
| U.S.S.R | 25.92 | 22.97 | -2.4 | 34.73 | 34.38 | -0.5 | 14.85 | 12.87 | -6.9 |
| Romania | 23.41 | 26.90 | 2.8 | 31.66 | 34.87 | 2.0 | 14.64 | 19.95 | 6.4 |

¹Number of deaths of infants under 1 year per 1,000 live births.

²Number of late fetal deaths plus infant deaths under 1 year per 1,000 live births plus late fetal deaths.

³Number of postneonatal deaths per 1,000 live births.

⁴Refers to countries, territories, cities, or geographic areas.

⁵Data for Spain are for 1988 and data for Kuwait are for 1987.

⁶Data for Costa Rica are for 1982 and data for U.S.S.R. are for 1986.

⁷Data for Spain and U.S.S.R. are for 1988. Data for Belgium are for 1987 and data for Kuwait are for 1986.

⁸Data for Hong Kong are for 1983. Data for the U.S.S.R. are for 1987.

⁹Data for Costa Rica and Italy are for 1988. Data for Kuwait and Spain are for 1987.

NOTES: Rankings are from lowest to highest infant mortality rates based on the latest data available for countries or geographic areas with at least 1 million population and with "complete" counts of live births and infant deaths as indicated in the United Nations Demographic Yearbook, 1990. Some of the international variation in infant mortality rates (IMR) is due to variation among countries in distinctions between fetal and infant deaths. The feto-infant mortality rate (FIMR) attempts to reduce international variation due to clinical distinctions between fetal and infant deaths. The United States ranks 24th on the IMR and 21st on the FIMR and 22nd on the postneonatal mortality rate.

SOURCES: World Health Organization: World Health Statistics Annuals, Vols. 1985-1991. Geneva, United Nations: Demographic Yearbook 1985-1990. New York. Centers for Disease Control and Prevention, National Center for Health Statistics: Vital Statistics of the United States, 1984, Vol. II, Mortality, Part A. DHHS Pub. No. (PHS) 88-1101. Public Health Service, Washington. U.S. Government Printing Office, 1989; Vital Statistics of the United States, 1989, Vol. II, Mortality, Part A. DHHS Pub. No. (PHS) 92-1101. Public Health Service, Washington. U.S. Government Printing Office, 1992.

Table 26 (page 1 of 2). Life expectancy at birth and at 65 years of age, according to sex: Selected countries, 1984 and 1989

[Data are based on reporting by countries]

| Country ¹ | At birth | | At 65 years | |
|---------------------------------------|--------------------------|-------------------|-------------------|-------------------|
| | 1984 ² | 1989 ³ | 1984 ² | 1989 ³ |
| Male | Life expectancy in years | | | |
| Japan | 74.8 | 76.2 | 15.7 | 16.5 |
| Hong Kong | 75.1 | 74.3 | 17.2 | 15.1 |
| Greece | 73.8 | 74.3 | 15.6 | 15.6 |
| Sweden | 73.9 | 74.2 | 14.9 | 15.0 |
| Switzerland | 73.8 | 74.1 | 15.5 | 15.5 |
| Israel | 73.2 | 73.9 | 15.0 | 15.2 |
| Netherlands | 73.0 | 73.7 | 14.1 | 14.3 |
| Canada | 73.0 | 73.7 | 15.0 | 15.3 |
| Spain | 73.2 | 73.6 | 15.2 | 15.6 |
| Italy | 71.3 | 73.3 | 13.7 | 14.7 |
| Norway | 73.0 | 73.3 | 14.5 | 14.7 |
| Australia | 72.6 | 73.3 | 14.5 | 14.7 |
| France | 71.7 | 73.1 | 14.9 | 15.8 |
| England and Wales | 71.9 | 72.9 | 13.5 | 14.0 |
| Federal Republic of Germany | 71.3 | 72.6 | 13.6 | 14.3 |
| Kuwait | 70.4 | 72.5 | 12.9 | 14.5 |
| Denmark | 71.8 | 72.2 | 14.0 | 14.0 |
| Cuba | 72.2 | 72.2 | 15.3 | 15.3 |
| Austria | 70.1 | 72.1 | 13.6 | 14.5 |
| Costa Rica | 74.5 | 72.1 | 17.3 | 14.0 |
| United States | 71.2 | 71.8 | 14.6 | 15.2 |
| Ireland | 70.8 | 71.7 | 12.8 | 13.0 |
| Northern Ireland | 70.3 | 71.4 | 12.7 | 12.9 |
| New Zealand | 71.2 | 71.4 | 13.9 | 14.0 |
| Singapore | 70.2 | 71.4 | 12.9 | 13.3 |
| Belgium | 70.8 | 71.4 | 13.3 | 13.6 |
| Portugal | 69.3 | 71.1 | 13.6 | 14.5 |
| Finland | 70.5 | 70.9 | 13.4 | 13.9 |
| Scotland | 69.9 | 70.6 | 12.5 | 12.7 |
| German Democratic Republic | 69.6 | 70.1 | 12.5 | 12.8 |
| Chile | 67.4 | 70.0 | 12.9 | 13.7 |
| Puerto Rico | 71.6 | 69.1 | 16.3 | 14.9 |
| Yugoslavia | 67.1 | 69.0 | 12.5 | 13.4 |
| Bulgaria | 68.5 | 68.3 | 12.8 | 12.8 |
| Czechoslovakia | 67.1 | 67.7 | 11.7 | 11.9 |
| Poland | 66.8 | 66.7 | 12.5 | 12.5 |
| Romania | 67.1 | 66.4 | 12.8 | 12.8 |
| Hungary | 65.1 | 65.5 | 11.8 | 12.1 |
| U.S.S.R. | 62.9 | 64.2 | 12.0 | 12.4 |
| Female | Life expectancy in years | | | |
| Japan | 80.7 | 82.5 | 19.3 | 20.7 |
| France | 80.1 | 81.5 | 19.4 | 20.5 |
| Switzerland | 80.8 | 81.3 | 19.8 | 20.0 |
| Netherlands | 79.9 | 81.1 | 19.0 | 19.1 |
| Canada | 80.1 | 80.6 | 19.6 | 19.8 |
| Spain | 79.8 | 80.3 | 18.7 | 19.1 |
| Sweden | 80.1 | 80.1 | 18.9 | 18.8 |
| Hong Kong | 81.4 | 80.1 | 21.0 | 18.8 |
| Norway | 79.8 | 80.0 | 18.8 | 18.9 |
| Italy | 77.9 | 79.9 | 17.2 | 18.7 |
| Australia | 79.3 | 79.6 | 18.7 | 18.7 |
| Greece | 78.6 | 79.4 | 17.7 | 17.9 |
| Federal Republic of Germany | 78.1 | 79.2 | 17.6 | 18.2 |
| Finland | 79.0 | 79.0 | 17.7 | 17.8 |
| Austria | 77.3 | 78.9 | 17.0 | 18.0 |
| United States | 78.2 | 78.6 | 18.6 | 18.8 |
| England and Wales | 77.9 | 78.4 | 17.6 | 17.8 |
| Portugal | 76.2 | 78.2 | 16.7 | 17.9 |
| Belgium | 77.8 | 78.2 | 17.5 | 17.8 |
| Denmark | 77.8 | 77.9 | 18.0 | 18.0 |

See footnotes at end of table.

Table 26 (page 2 of 2). Life expectancy at birth and at 65 years of age, according to sex: Selected countries, 1984 and 1989

[Data are based on reporting by countries]

| Country ¹ | At birth | | At 65 years | |
|--------------------------------------|--------------------------|-------------------|-------------------|-------------------|
| | 1984 ² | 1989 ³ | 1984 ² | 1989 ³ |
| Female—Con. | Life expectancy in years | | | |
| Israel | 76.7 | 77.6 | 16.5 | 16.9 |
| New Zealand | 77.8 | 77.3 | 18.0 | 17.7 |
| Northern Ireland | 76.5 | 77.3 | 16.5 | 16.8 |
| Ireland | 76.3 | 77.2 | 16.1 | 16.5 |
| Puerto Rico | 78.3 | 77.2 | 18.8 | 17.5 |
| Costa Rica | 78.4 | 76.9 | 19.0 | 16.8 |
| Singapore | 75.6 | 76.7 | 15.9 | 16.4 |
| German Democratic Republic | 75.4 | 76.4 | 15.4 | 15.9 |
| Scotland | 75.9 | 76.2 | 16.6 | 16.3 |
| Kuwait | 74.5 | 75.8 | 14.9 | 16.2 |
| Chile | 74.8 | 75.7 | 16.3 | 16.7 |
| Poland | 75.0 | 75.5 | 15.9 | 16.2 |
| Czechoslovakia | 74.6 | 75.4 | 15.0 | 15.4 |
| Cuba | 75.3 | 75.3 | 16.7 | 16.6 |
| Yugoslavia | 73.0 | 74.8 | 14.9 | 15.9 |
| Bulgaria | 74.5 | 74.8 | 15.1 | 15.1 |
| U.S.S.R. | 72.7 | 73.9 | 15.6 | 16.0 |
| Hungary | 73.3 | 73.9 | 15.1 | 15.6 |
| Romania | 72.7 | 72.3 | 14.7 | 14.7 |

¹Refers to countries, territories, cities, or geographic areas.

²Data for Costa Rica, Cuba, Italy, and Yugoslavia are for 1983. Data for Kuwait, Singapore, and Northern Ireland are for 1985.

³Data for Costa Rica, Cuba, Israel, Italy, Romania, and Sweden are for 1988. Data for Belgium are for 1986. Data for Denmark and U.S.S.R. are for 1990.

NOTES: Rankings are from highest to lowest life expectancy based on the latest available data for countries or geographic areas with at least 1 million population. This table is based on official mortality data from the country concerned, as submitted to the United Nations Demographic Yearbook or the World Health Statistics Annual.

SOURCES: World Health Organization: World Health Statistics Annuals. Vols. 1984–1990. Geneva. United Nations: Demographic Yearbook 1984 and 1990. New York. Centers for Disease Control and Prevention, National Center for Health Statistics: Vital Statistics of the United States, 1984, Vol. II, Mortality, Part A. DHHS Pub. No. (PHS) 88-1101. Public Health Service. Washington. U.S. Government Printing Office, 1989; Vital Statistics of the United States, 1989, Vol. II, Mortality, Part A. DHHS Pub. No. (PHS) 92-1101. Public Health Service. Washington. U.S. Government Printing Office, 1992.

Table 27. Life expectancy at birth and at 65 years of age, according to race and sex: United States, selected years 1900–91

[Data are based on the National Vital Statistics System]

| Specified age and year | All races | | | White | | | Black | | |
|--------------------------------|------------------------------------|------|--------|------------|------|--------|------------|------|--------|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| At birth | Remaining life expectancy in years | | | | | | | | |
| 1900 ^{1,2} | 47.3 | 46.3 | 48.3 | 47.6 | 46.6 | 48.7 | 333.0 | 32.5 | 33.5 |
| 1950 ² | 68.2 | 65.6 | 71.1 | 69.1 | 66.5 | 72.2 | 60.7 | 58.9 | 62.7 |
| 1960 ² | 69.7 | 66.6 | 73.1 | 70.6 | 67.4 | 74.1 | 63.2 | 60.7 | 65.9 |
| 1970..... | 70.9 | 67.1 | 74.8 | 71.7 | 68.0 | 75.6 | 64.1 | 60.0 | 68.3 |
| 1975..... | 72.6 | 68.8 | 76.6 | 73.4 | 69.5 | 77.3 | 66.8 | 62.4 | 71.3 |
| 1980..... | 73.7 | 70.0 | 77.4 | 74.4 | 70.7 | 78.1 | 68.1 | 63.8 | 72.5 |
| 1981..... | 74.1 | 70.4 | 77.8 | 74.8 | 71.1 | 78.4 | 68.9 | 64.5 | 73.2 |
| 1982..... | 74.5 | 70.8 | 78.1 | 75.1 | 71.5 | 78.7 | 69.4 | 65.1 | 73.6 |
| 1983..... | 74.6 | 71.0 | 78.1 | 75.2 | 71.6 | 78.7 | 69.4 | 65.2 | 73.5 |
| 1984..... | 74.7 | 71.1 | 78.2 | 75.3 | 71.8 | 78.7 | 69.5 | 65.3 | 73.6 |
| 1985..... | 74.7 | 71.1 | 78.2 | 75.3 | 71.8 | 78.7 | 69.3 | 65.0 | 73.4 |
| 1986..... | 74.7 | 71.2 | 78.2 | 75.4 | 71.9 | 78.8 | 69.1 | 64.8 | 73.4 |
| 1987..... | 74.9 | 71.4 | 78.3 | 75.6 | 72.1 | 78.9 | 69.1 | 64.7 | 73.4 |
| 1988..... | 74.9 | 71.4 | 78.3 | 75.6 | 72.2 | 78.9 | 68.9 | 64.4 | 73.2 |
| 1989..... | 75.1 | 71.7 | 78.5 | 75.9 | 72.5 | 79.2 | 68.8 | 64.3 | 73.3 |
| 1990..... | 75.4 | 71.8 | 78.8 | 76.1 | 72.7 | 79.4 | 69.1 | 64.5 | 73.6 |
| Provisional data: | | | | | | | | | |
| 1989 ² | 75.2 | 71.8 | 78.5 | 75.9 | 72.6 | 79.1 | 69.7 | 65.2 | 74.0 |
| 1990 ² | 75.4 | 72.0 | 78.8 | 76.0 | 72.6 | 79.3 | 70.3 | 66.0 | 74.5 |
| 1991..... | 75.7 | 72.2 | 79.1 | 76.4 | 73.0 | 79.7 | 70.0 | 65.6 | 74.3 |
| At 65 years | | | | | | | | | |
| 1900–1902 ^{1,2} | 11.9 | 11.5 | 12.2 | --- | 11.5 | 12.2 | --- | 10.4 | 11.4 |
| 1950 ² | 13.9 | 12.8 | 15.0 | --- | 12.8 | 15.1 | 13.9 | 12.9 | 14.9 |
| 1960 ² | 14.3 | 12.8 | 15.8 | 14.4 | 12.9 | 15.9 | 13.9 | 12.7 | 15.1 |
| 1970..... | 15.2 | 13.1 | 17.0 | 15.2 | 13.1 | 17.1 | 14.2 | 12.5 | 15.7 |
| 1975..... | 16.1 | 13.8 | 18.1 | 16.1 | 13.8 | 18.2 | 15.0 | 13.1 | 16.7 |
| 1980..... | 16.4 | 14.1 | 18.3 | 16.5 | 14.2 | 18.4 | 15.1 | 13.0 | 16.8 |
| 1981..... | 16.6 | 14.3 | 18.6 | 16.7 | 14.4 | 18.7 | 15.5 | 13.4 | 17.2 |
| 1982..... | 16.8 | 14.5 | 18.7 | 16.9 | 14.5 | 18.8 | 15.7 | 13.5 | 17.5 |
| 1983..... | 16.7 | 14.4 | 18.6 | 16.8 | 14.5 | 18.7 | 15.4 | 13.2 | 17.2 |
| 1984..... | 16.8 | 14.5 | 18.6 | 16.8 | 14.6 | 18.7 | 15.4 | 13.2 | 17.2 |
| 1985..... | 16.7 | 14.5 | 18.5 | 16.8 | 14.5 | 18.7 | 15.2 | 13.0 | 16.9 |
| 1986..... | 16.8 | 14.6 | 18.6 | 16.9 | 14.7 | 18.7 | 15.2 | 13.0 | 17.0 |
| 1987..... | 16.9 | 14.7 | 18.7 | 17.0 | 14.8 | 18.8 | 15.2 | 13.0 | 17.0 |
| 1988..... | 16.9 | 14.7 | 18.6 | 17.0 | 14.8 | 18.7 | 15.1 | 12.9 | 16.9 |
| 1989..... | 17.1 | 15.0 | 18.8 | 17.2 | 15.1 | 18.9 | 15.2 | 13.0 | 16.9 |
| 1990..... | 17.2 | 15.1 | 18.9 | 17.3 | 15.2 | 19.1 | 15.4 | 13.2 | 17.2 |
| Provisional data: | | | | | | | | | |
| 1989 ² | 17.2 | 15.2 | 18.8 | 17.3 | 15.2 | 18.9 | 15.8 | 13.8 | 17.4 |
| 1990 ² | 17.3 | 15.3 | 19.0 | 17.3 | 15.3 | 19.0 | 16.1 | 14.2 | 17.6 |
| 1991..... | 17.5 | 15.5 | 19.2 | 17.6 | 15.5 | 19.3 | 16.1 | 14.2 | 17.5 |

¹Death registration area only. The death registration area increased from 10 States and the District of Columbia in 1900 to the coterminous United States in 1933.

²Includes deaths of nonresidents of the United States.

³Figure is for the all other population.

NOTES: Final data for the 1980's have been revised based on intercensal population estimates and differ from previous editions of Health, United States. Provisional data for 1989–91 were calculated using 1980's-based postcensal population estimates. See Appendix I, National Center for Health Statistics and Department of Commerce.

SOURCES: U.S. Bureau of the Census: U.S. Life Tables 1890, 1901, 1910, and 1901–1910, by J. W. Glover. Washington, U.S. Government Printing Office, 1921; Centers for Disease Control and Prevention, National Center for Health Statistics: Vital Statistics Rates in the United States, 1940–1960, by R. D. Grove and A. M. Hetzel. DHEW Pub. No. (PHS) 1677. Public Health Service. Washington, U.S. Government Printing Office, 1968; Annual summary of births, marriages, divorces, and deaths, United States, 1989, 1990, and 1991. Monthly Vital Statistics Report. Vols. 38, 39, and 40, No. 13. DHHS Pub. Nos. (PHS) 90-1120, 91-1120, and 92-1120. 1990, 1991, and 1992; Public Health Service. Hyattsville, Md.; Unpublished data from the Division of Vital Statistics; Data computed by the Office of Research and Methodology from data compiled by the Division of Vital Statistics.

**Table 28 (page 1 of 2). Age-adjusted death rates for selected causes of death, according to sex and race:
United States, selected years 1950–90**

[Data are based on the National Vital Statistics System]

| Sex, race, and cause of death | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|--|--|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| All races | Deaths per 100,000 resident population | | | | | | | | | |
| All causes..... | 840.5 | 760.9 | 714.3 | 585.8 | 548.9 | 544.8 | 539.2 | 539.9 | 528.0 | 520.2 |
| Natural causes | 766.6 | 695.2 | 636.9 | 519.7 | 493.0 | 487.4 | 483.0 | 483.2 | 472.4 | 465.1 |
| Diseases of heart..... | 307.2 | 286.2 | 253.6 | 202.0 | 181.4 | 176.0 | 170.8 | 167.7 | 157.5 | 152.0 |
| Ischemic heart disease | --- | --- | --- | 149.8 | 126.1 | 119.5 | 114.7 | 111.1 | 106.2 | 102.6 |
| Cerebrovascular diseases..... | 88.6 | 79.7 | 66.3 | 40.8 | 32.5 | 31.1 | 30.4 | 29.9 | 28.3 | 27.7 |
| Malignant neoplasms..... | 125.3 | 125.8 | 129.8 | 132.8 | 134.4 | 134.1 | 134.0 | 134.0 | 134.5 | 135.0 |
| Respiratory system | 12.8 | 19.2 | 28.4 | 36.4 | 39.1 | 39.3 | 40.0 | 40.3 | 40.8 | 41.4 |
| Colorectal..... | 19.0 | 17.7 | 16.8 | 15.5 | 14.9 | 14.5 | 14.4 | 14.0 | 13.7 | 13.6 |
| Prostate ² | 13.4 | 13.1 | 13.3 | 14.4 | 14.7 | 15.2 | 15.1 | 15.5 | 15.9 | 16.7 |
| Breast ³ | 22.2 | 22.3 | 23.1 | 22.7 | 23.3 | 23.2 | 23.0 | 23.3 | 23.1 | 23.1 |
| Chronic obstructive pulmonary diseases | 4.4 | 8.2 | 13.2 | 15.9 | 18.8 | 18.9 | 18.9 | 19.6 | 19.6 | 19.7 |
| Pneumonia and influenza | 26.2 | 28.0 | 22.1 | 12.9 | 13.5 | 13.6 | 13.2 | 14.3 | 13.8 | 14.0 |
| Chronic liver disease and cirrhosis | 8.5 | 10.5 | 14.7 | 12.2 | 9.7 | 9.3 | 9.2 | 9.1 | 9.0 | 8.6 |
| Diabetes mellitus | 14.3 | 13.6 | 14.1 | 10.1 | 9.7 | 9.7 | 9.8 | 10.2 | 11.6 | 11.7 |
| Nephritis, nephrotic syndrome, and nephrosis | --- | --- | --- | 4.5 | 4.9 | 4.9 | 4.8 | 4.8 | 4.5 | 4.3 |
| Septicemia | --- | --- | --- | 2.6 | 4.1 | 4.3 | 4.5 | 4.6 | 4.2 | 4.1 |
| Atherosclerosis | --- | --- | --- | 5.7 | 4.0 | 3.7 | 3.6 | 3.5 | 3.0 | 2.7 |
| Human immunodeficiency virus infection | --- | --- | --- | --- | --- | 5.5 | 6.7 | 8.7 | 9.8 | 9.8 |
| External causes..... | 73.9 | 65.7 | 77.4 | 66.1 | 55.9 | 57.4 | 56.2 | 56.7 | 55.6 | 55.1 |
| Unintentional injuries | 57.5 | 49.9 | 53.7 | 42.3 | 34.8 | 35.2 | 34.7 | 35.0 | 33.9 | 32.5 |
| Motor vehicle crashes | 23.3 | 22.5 | 27.4 | 22.9 | 18.8 | 19.4 | 19.4 | 19.7 | 18.9 | 18.5 |
| Suicide | 11.0 | 10.6 | 11.8 | 11.4 | 11.5 | 11.9 | 11.7 | 11.5 | 11.3 | 11.5 |
| Homicide and legal intervention..... | 5.4 | 5.2 | 9.1 | 10.8 | 8.3 | 9.0 | 8.6 | 9.0 | 9.4 | 10.2 |
| Drug-induced causes..... | --- | --- | --- | 3.0 | 3.5 | 4.0 | 3.8 | 4.2 | 4.1 | 3.6 |
| Alcohol-induced causes..... | --- | --- | --- | 8.4 | 7.0 | 6.7 | 6.8 | 7.1 | 7.3 | 7.2 |
| White male | | | | | | | | | | |
| All causes..... | 963.1 | 917.7 | 893.4 | 745.3 | 693.3 | 684.9 | 674.2 | 671.3 | 652.2 | 644.3 |
| Natural causes | 860.1 | 825.8 | 788.6 | 651.2 | 613.4 | 603.1 | 594.9 | 592.2 | 575.3 | 567.6 |
| Diseases of heart..... | 381.1 | 375.4 | 347.6 | 277.5 | 246.2 | 236.7 | 228.1 | 223.0 | 208.7 | 202.0 |
| Ischemic heart disease | --- | --- | --- | 218.0 | 182.1 | 171.3 | 163.3 | 157.6 | 150.2 | 145.3 |
| Cerebrovascular diseases..... | 87.0 | 80.3 | 68.8 | 41.9 | 33.0 | 31.2 | 30.6 | 30.3 | 28.4 | 27.7 |
| Malignant neoplasms..... | 130.9 | 141.6 | 154.3 | 160.5 | 160.4 | 160.2 | 160.1 | 159.6 | 159.4 | 160.3 |
| Respiratory system | 21.6 | 34.6 | 49.9 | 58.0 | 58.7 | 58.6 | 59.2 | 58.8 | 58.3 | 59.0 |
| Colorectal..... | 19.8 | 18.9 | 18.9 | 18.3 | 17.8 | 17.3 | 17.3 | 16.8 | 16.5 | 16.5 |
| Prostate | 13.1 | 12.4 | 12.3 | 13.2 | 13.4 | 13.9 | 13.8 | 14.2 | 14.7 | 15.3 |
| Chronic obstructive pulmonary diseases | 6.0 | 13.8 | 24.0 | 26.7 | 28.7 | 28.3 | 27.7 | 28.2 | 27.2 | 27.4 |
| Pneumonia and influenza | 27.1 | 31.0 | 26.0 | 16.2 | 17.5 | 17.6 | 16.9 | 18.2 | 17.1 | 17.5 |
| Chronic liver disease and cirrhosis | 11.6 | 14.4 | 18.8 | 15.7 | 12.7 | 12.3 | 12.2 | 12.3 | 12.1 | 11.5 |
| Diabetes mellitus | 11.3 | 11.6 | 12.7 | 9.5 | 9.2 | 9.1 | 9.6 | 9.7 | 11.1 | 11.3 |
| Nephritis, nephrotic syndrome, and nephrosis | --- | --- | --- | 4.9 | 5.4 | 5.5 | 5.4 | 5.3 | 4.8 | 4.6 |
| Septicemia | --- | --- | --- | 2.8 | 4.3 | 4.6 | 4.6 | 4.6 | 4.2 | 4.2 |
| Atherosclerosis | --- | --- | --- | 6.5 | 4.6 | 4.3 | 4.2 | 4.0 | 3.5 | 3.2 |
| Human immunodeficiency virus infection | --- | --- | --- | --- | --- | 8.4 | 10.0 | 13.2 | 15.0 | 15.0 |
| External causes..... | 103.0 | 91.9 | 104.8 | 94.1 | 80.0 | 81.8 | 79.2 | 79.1 | 76.9 | 76.7 |
| Unintentional injuries | 80.9 | 70.5 | 76.2 | 62.3 | 50.5 | 51.2 | 49.8 | 50.0 | 47.8 | 46.4 |
| Motor vehicle crashes | 35.9 | 34.0 | 40.1 | 34.8 | 27.6 | 28.7 | 28.3 | 28.4 | 26.7 | 26.3 |
| Suicide | 18.1 | 17.5 | 18.2 | 18.9 | 19.9 | 20.6 | 20.2 | 19.9 | 19.7 | 20.1 |
| Homicide and legal intervention..... | 3.9 | 3.9 | 7.3 | 10.9 | 8.1 | 8.4 | 7.8 | 7.8 | 8.1 | 8.9 |
| Drug-induced causes..... | --- | --- | --- | 3.2 | 4.0 | 4.7 | 4.3 | 4.9 | 4.8 | 4.2 |
| Alcohol-induced causes..... | --- | --- | --- | 10.8 | 9.2 | 9.0 | 9.2 | 9.5 | 9.9 | 9.9 |
| Black male | | | | | | | | | | |
| All causes..... | 1,373.1 | 1,246.1 | 1,318.6 | 1,112.8 | 1,053.4 | 1,061.9 | 1,063.6 | 1,083.0 | 1,082.8 | 1,061.3 |
| Natural causes | 1,209.2 | 1,093.4 | 1,095.4 | 942.6 | 920.7 | 922.0 | 925.0 | 938.1 | 936.0 | 915.2 |
| Diseases of heart..... | 415.5 | 381.2 | 375.9 | 327.3 | 310.8 | 306.1 | 301.0 | 301.7 | 289.7 | 275.9 |
| Ischemic heart disease | --- | --- | --- | 196.0 | 170.4 | 160.3 | 158.4 | 155.1 | 152.2 | 147.1 |
| Cerebrovascular diseases..... | 146.2 | 141.2 | 122.5 | 77.5 | 62.7 | 61.1 | 59.7 | 60.8 | 57.3 | 56.1 |
| Malignant neoplasms..... | 126.1 | 158.5 | 198.0 | 229.9 | 239.9 | 239.0 | 240.0 | 240.4 | 246.2 | 248.1 |
| Respiratory system | 16.9 | 36.6 | 60.8 | 82.0 | 87.7 | 87.9 | 88.9 | 88.7 | 90.8 | 91.0 |
| Colorectal..... | 13.8 | 15.0 | 17.3 | 19.2 | 20.2 | 20.2 | 20.8 | 20.1 | 20.7 | 21.6 |
| Prostate | 16.9 | 22.2 | 25.4 | 29.1 | 31.2 | 31.4 | 31.7 | 32.0 | 33.1 | 35.3 |
| Chronic obstructive pulmonary diseases | --- | --- | --- | 20.9 | 24.8 | 25.6 | 25.2 | 27.4 | 26.5 | 26.5 |
| Pneumonia and influenza | 63.8 | 70.2 | 53.8 | 28.0 | 27.5 | 28.1 | 27.5 | 29.2 | 29.3 | 28.7 |
| Chronic liver disease and cirrhosis | 8.8 | 14.8 | 33.1 | 30.6 | 23.8 | 21.3 | 22.6 | 21.3 | 21.2 | 20.0 |
| Diabetes mellitus | 11.5 | 16.2 | 21.2 | 17.7 | 18.2 | 18.6 | 19.2 | 20.8 | 24.1 | 23.6 |
| Nephritis, nephrotic syndrome, and nephrosis | --- | --- | --- | 14.2 | 14.5 | 14.7 | 14.0 | 14.0 | 14.7 | 12.9 |
| Septicemia | --- | --- | --- | 8.0 | 12.2 | 12.8 | 13.0 | 12.8 | 11.8 | 11.6 |
| Atherosclerosis | --- | --- | --- | 7.5 | 5.2 | 5.2 | 4.6 | 4.8 | 3.5 | 3.6 |
| Human immunodeficiency virus infection | --- | --- | --- | --- | --- | --- | 25.4 | 31.6 | 40.3 | 44.2 |

See footnotes at end of table.

**Table 28 (page 2 of 2). Age-adjusted death rates for selected causes of death, according to sex and race:
United States, selected years 1950–90**

[Data are based on the National Vital Statistics System]

| Sex, race, and cause of death | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|--|-------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Black male—Con. | | | | | | | | | | |
| Deaths per 100,000 resident population | | | | | | | | | | |
| External causes | 163.9 | 152.7 | 223.2 | 170.2 | 132.6 | 139.8 | 138.6 | 144.9 | 146.8 | 146.0 |
| Unintentional injuries | 105.7 | 100.0 | 119.5 | 82.0 | 67.6 | 68.0 | 68.0 | 70.4 | 68.8 | 62.4 |
| Motor vehicle crashes | 39.8 | 38.2 | 50.1 | 32.9 | 28.0 | 29.5 | 28.9 | 30.1 | 29.8 | 28.9 |
| Suicide | 7.0 | 7.8 | 9.9 | 11.1 | 11.5 | 11.6 | 12.1 | 11.9 | 12.6 | 12.4 |
| Homicide and legal intervention | 51.1 | 44.9 | 82.1 | 71.9 | 50.2 | 56.3 | 54.2 | 58.6 | 61.9 | 68.7 |
| Drug-induced causes | --- | --- | --- | 5.8 | 8.9 | 10.5 | 11.3 | 12.9 | 11.4 | 8.4 |
| Alcohol-induced causes | --- | --- | --- | 32.4 | 27.7 | 25.5 | 26.7 | 27.3 | 27.7 | 26.6 |
| White female | | | | | | | | | | |
| All causes | 645.0 | 555.0 | 501.7 | 411.1 | 391.0 | 388.1 | 384.8 | 385.3 | 376.0 | 369.9 |
| Natural causes | 607.7 | 522.7 | 463.8 | 380.0 | 363.9 | 360.6 | 357.3 | 358.0 | 349.3 | 344.2 |
| Diseases of heart | 223.6 | 197.1 | 167.8 | 134.6 | 121.7 | 118.9 | 116.2 | 114.1 | 106.6 | 103.1 |
| Ischemic heart disease | --- | --- | --- | 97.4 | 82.9 | 79.5 | 76.8 | 74.7 | 71.0 | 68.6 |
| Cerebrovascular diseases | 79.7 | 68.7 | 56.2 | 35.2 | 27.9 | 27.0 | 26.3 | 25.5 | 24.2 | 23.8 |
| Malignant neoplasms | 119.4 | 109.5 | 107.6 | 107.7 | 110.5 | 110.3 | 110.0 | 110.4 | 111.1 | 111.2 |
| Respiratory system | 4.6 | 5.1 | 10.1 | 18.2 | 22.7 | 23.1 | 23.9 | 24.9 | 25.9 | 26.5 |
| Colorectal | 19.0 | 17.0 | 15.3 | 13.3 | 12.3 | 12.0 | 11.8 | 11.5 | 11.1 | 10.9 |
| Breast | 22.5 | 22.4 | 23.4 | 22.8 | 23.4 | 23.1 | 22.9 | 23.1 | 23.1 | 22.9 |
| Chronic obstructive pulmonary diseases | 2.8 | 3.3 | 5.3 | 9.2 | 12.9 | 13.3 | 13.7 | 14.5 | 15.2 | 15.2 |
| Pneumonia and influenza | 18.9 | 19.0 | 15.0 | 9.4 | 9.9 | 9.9 | 9.7 | 10.7 | 10.4 | 10.6 |
| Chronic liver disease and cirrhosis | 5.8 | 6.6 | 8.7 | 7.0 | 5.6 | 5.4 | 5.1 | 5.1 | 5.0 | 4.8 |
| Diabetes mellitus | 16.4 | 13.7 | 12.8 | 8.7 | 8.1 | 8.1 | 8.1 | 8.4 | 9.6 | 9.5 |
| Nephritis, nephrotic syndrome, and nephrosis | --- | --- | --- | 2.9 | 3.4 | 3.3 | 3.3 | 3.3 | 3.0 | 3.0 |
| Septicemia | --- | --- | --- | 1.8 | 3.0 | 3.2 | 3.4 | 3.5 | 3.1 | 3.1 |
| Atherosclerosis | --- | --- | --- | 5.0 | 3.5 | 3.2 | 3.2 | 3.0 | 2.6 | 2.4 |
| Human immunodeficiency virus infection | --- | --- | --- | --- | --- | 0.6 | 0.7 | 0.9 | 1.1 | 1.1 |
| External causes | 37.3 | 32.3 | 37.9 | 31.1 | 27.1 | 27.5 | 27.4 | 27.3 | 26.7 | 25.7 |
| Unintentional injuries | 30.6 | 25.5 | 27.2 | 21.4 | 18.4 | 18.5 | 18.6 | 18.9 | 18.6 | 17.6 |
| Motor vehicle crashes | 10.6 | 11.1 | 14.4 | 12.3 | 10.8 | 11.0 | 11.4 | 11.6 | 11.6 | 11.0 |
| Suicide | 5.3 | 5.3 | 7.2 | 5.7 | 5.3 | 5.5 | 5.3 | 5.1 | 4.8 | 4.8 |
| Homicide and legal intervention | 1.4 | 1.5 | 2.2 | 3.2 | 2.9 | 2.9 | 2.9 | 2.9 | 2.8 | 2.8 |
| Drug-induced causes | --- | --- | --- | 2.6 | 2.5 | 2.7 | 2.5 | 2.7 | 2.6 | 2.5 |
| Alcohol-induced causes | --- | --- | --- | 3.5 | 2.8 | 2.7 | 2.6 | 2.7 | 2.8 | 2.8 |
| Black female | | | | | | | | | | |
| All causes | 1,106.7 | 916.9 | 814.4 | 631.1 | 594.8 | 594.1 | 592.4 | 601.0 | 594.3 | 581.6 |
| Natural causes | 1,054.8 | 867.3 | 757.9 | 588.4 | 559.8 | 557.6 | 555.4 | 562.2 | 556.3 | 545.1 |
| Diseases of heart | 349.5 | 292.6 | 251.7 | 201.1 | 188.3 | 186.6 | 182.6 | 183.3 | 175.6 | 168.1 |
| Ischemic heart disease | --- | --- | --- | 116.1 | 101.6 | 97.8 | 94.5 | 94.1 | 92.3 | 88.8 |
| Cerebrovascular diseases | 155.6 | 139.5 | 107.9 | 61.7 | 50.6 | 47.9 | 47.1 | 47.1 | 45.5 | 42.7 |
| Malignant neoplasms | 131.9 | 127.8 | 123.5 | 129.7 | 131.8 | 133.7 | 133.9 | 133.5 | 133.5 | 137.2 |
| Respiratory system | 4.1 | 5.5 | 10.9 | 19.5 | 22.8 | 23.7 | 24.7 | 25.2 | 26.0 | 27.5 |
| Colorectal | 15.0 | 15.4 | 16.1 | 15.3 | 16.2 | 15.3 | 15.7 | 15.1 | 15.1 | 15.5 |
| Breast | 19.3 | 21.3 | 21.5 | 23.3 | 25.5 | 26.2 | 26.9 | 27.5 | 26.5 | 27.5 |
| Chronic obstructive pulmonary diseases | --- | --- | --- | 6.3 | 8.8 | 9.0 | 9.6 | 10.2 | 11.1 | 10.7 |
| Pneumonia and influenza | 50.4 | 43.9 | 29.2 | 12.7 | 12.5 | 13.2 | 12.3 | 13.6 | 14.0 | 13.7 |
| Chronic liver disease and cirrhosis | 5.7 | 8.9 | 17.8 | 14.4 | 10.2 | 9.4 | 9.2 | 9.5 | 8.7 | 8.7 |
| Diabetes mellitus | 22.7 | 27.3 | 30.9 | 22.1 | 21.3 | 21.6 | 21.6 | 22.5 | 24.6 | 25.4 |
| Nephritis, nephrotic syndrome, and nephrosis | --- | --- | --- | 10.3 | 10.6 | 10.0 | 9.9 | 10.5 | 9.7 | 9.4 |
| Septicemia | --- | --- | --- | 5.4 | 8.1 | 8.2 | 9.2 | 9.1 | 8.5 | 8.0 |
| Atherosclerosis | --- | --- | --- | 5.6 | 3.8 | 3.5 | 3.4 | 3.3 | 2.9 | 2.7 |
| Human immunodeficiency virus infection | --- | --- | --- | --- | --- | 4.7 | 6.2 | 8.1 | 9.9 | 9.9 |
| External causes | 51.9 | 49.6 | 56.5 | 42.7 | 35.0 | 36.6 | 37.0 | 38.7 | 38.0 | 36.6 |
| Unintentional injuries | 38.5 | 35.9 | 35.3 | 25.1 | 20.9 | 21.2 | 21.2 | 22.4 | 21.9 | 20.4 |
| Motor vehicle crashes | 10.3 | 10.0 | 13.8 | 8.4 | 8.2 | 8.5 | 8.8 | 9.4 | 9.3 | 9.3 |
| Suicide | 1.7 | 1.9 | 2.9 | 2.4 | 2.1 | 2.4 | 2.1 | 2.5 | 2.4 | 2.4 |
| Homicide and legal intervention | 11.7 | 11.8 | 15.0 | 13.7 | 10.9 | 11.9 | 12.5 | 12.8 | 12.7 | 13.0 |
| Drug-induced causes | --- | --- | --- | 2.7 | 3.3 | 3.7 | 4.1 | 4.4 | 4.1 | 3.4 |
| Alcohol-induced causes | --- | --- | --- | 10.6 | 8.0 | 7.1 | 7.3 | 7.9 | 7.8 | 7.7 |

¹Includes deaths of nonresidents of the United States.

²Male only.

³Female only.

NOTES: For data years shown, the code numbers for cause of death are based on the then current International Classification of Diseases, which are described in Appendix II, tables IV and V. Categories for the coding and classification of human immunodeficiency virus infection were introduced in the United States beginning with mortality data for 1987. Data for the 1980's have been revised based on intercensal population estimates and differ from previous editions of Health, United States. See Appendix I, Department of Commerce.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Vital Statistics Rates in the United States, 1940–1960, by R. D. Grove and A. M. Hetzel. DHEW Pub. No. (PHS) 1677. Public Health Service. Washington. U.S. Government Printing Office, 1968; Vital Statistics of the United States, Vol. II, Mortality, Part A, for data years 1960–90. Public Health Service. Washington. U.S. Government Printing Office; Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics and from table 1.

Table 29 (page 1 of 2). Years of potential life lost before age 65 for selected causes of death, according to sex and race: United States, selected years 1970–90

[Data are based on the National Vital Statistics System]

| Sex, race, and cause of death | 1970 | 1980 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| All races | | | | | | | | | | | |
| All causes..... | 8,595.9 | 6,416.0 | 5,900.1 | 5,706.1 | 5,647.4 | 5,660.2 | 5,728.1 | 5,677.6 | 5,726.6 | 5,708.9 | 5,623.0 |
| Diseases of heart..... | 1,108.9 | 841.3 | 792.7 | 784.9 | 765.7 | 752.6 | 737.5 | 714.7 | 692.5 | 653.0 | 632.2 |
| Ischemic heart disease..... | — | 544.3 | 508.0 | 485.3 | 464.4 | 448.4 | 422.3 | 403.2 | 380.9 | 364.3 | 350.0 |
| Cerebrovascular diseases..... | 241.1 | 140.8 | 128.0 | 124.7 | 124.6 | 119.6 | 116.6 | 116.6 | 116.1 | 110.1 | 110.7 |
| Malignant neoplasms..... | 1,013.0 | 907.5 | 887.7 | 877.0 | 878.1 | 875.3 | 867.8 | 854.4 | 851.8 | 847.6 | 848.6 |
| Respiratory system..... | 190.7 | 211.9 | 210.5 | 209.0 | 208.5 | 207.6 | 204.3 | 204.7 | 204.7 | 202.1 | 203.0 |
| Colorectal..... | 78.9 | 68.7 | 66.5 | 65.8 | 65.8 | 65.1 | 63.1 | 64.7 | 62.5 | 59.4 | 60.6 |
| Prostate ¹ | 8.2 | 8.5 | 8.3 | 8.7 | 8.4 | 8.4 | 8.5 | 8.2 | 8.5 | 8.7 | 8.7 |
| Breast ² | 115.6 | 105.5 | 105.3 | 103.7 | 108.0 | 107.1 | 107.9 | 107.7 | 109.0 | 109.0 | 109.4 |
| Chronic obstructive pulmonary diseases..... | 73.2 | 57.2 | 57.8 | 60.0 | 58.8 | 61.1 | 60.9 | 62.0 | 62.2 | 62.7 | 61.0 |
| Pneumonia and influenza..... | 392.1 | 97.5 | 79.4 | 79.5 | 78.9 | 81.1 | 83.1 | 80.9 | 84.7 | 85.3 | 81.2 |
| Chronic liver disease and cirrhosis..... | 187.8 | 145.3 | 122.4 | 118.1 | 116.0 | 113.7 | 109.7 | 110.6 | 110.5 | 108.0 | 103.1 |
| Diabetes mellitus..... | 80.6 | 56.2 | 53.9 | 56.4 | 53.9 | 54.8 | 57.4 | 57.8 | 62.3 | 67.3 | 67.0 |
| Human immunodeficiency virus infection..... | — | — | — | — | — | — | — | 170.9 | 207.3 | 271.1 | 303.4 |
| Unintentional injuries..... | 1,599.1 | 1,373.1 | 1,172.0 | 1,115.2 | 1,101.6 | 1,087.9 | 1,117.1 | 1,084.1 | 1,083.0 | 1,034.2 | 984.7 |
| Motor vehicle crashes..... | 889.4 | 840.8 | 694.4 | 659.9 | 674.1 | 660.8 | 689.8 | 677.9 | 676.8 | 636.1 | 615.5 |
| Suicide..... | 250.2 | 309.0 | 312.8 | 306.2 | 313.6 | 313.5 | 322.1 | 315.5 | 312.8 | 308.7 | 312.0 |
| Homicide and legal intervention..... | 271.8 | 373.6 | 336.5 | 299.2 | 293.2 | 291.7 | 322.3 | 308.5 | 326.5 | 340.2 | 374.3 |
| White male | | | | | | | | | | | |
| All causes..... | 9,757.4 | 7,611.5 | 6,988.9 | 6,729.5 | 6,670.3 | 6,697.6 | 6,770.4 | 6,632.2 | 6,646.2 | 6,559.9 | 6,503.1 |
| Diseases of heart..... | 1,607.4 | 1,179.1 | 1,118.6 | 1,091.2 | 1,061.1 | 1,034.8 | 1,004.2 | 967.2 | 928.9 | 874.6 | 847.7 |
| Ischemic heart disease..... | — | 869.7 | 809.4 | 770.1 | 734.5 | 707.8 | 664.8 | 629.3 | 590.7 | 564.6 | 545.5 |
| Cerebrovascular diseases..... | 215.0 | 122.6 | 111.6 | 110.0 | 108.3 | 104.5 | 100.2 | 101.2 | 100.8 | 93.7 | 93.9 |
| Malignant neoplasms..... | 1,036.9 | 935.1 | 903.1 | 888.9 | 884.7 | 887.5 | 881.0 | 861.5 | 854.4 | 842.9 | 843.1 |
| Respiratory system..... | 287.8 | 286.0 | 278.8 | 271.7 | 270.8 | 266.8 | 261.9 | 262.6 | 259.0 | 251.7 | 251.6 |
| Colorectal..... | 81.2 | 73.5 | 71.8 | 72.2 | 72.0 | 71.2 | 69.0 | 70.9 | 68.8 | 65.6 | 66.1 |
| Prostate..... | 14.4 | 15.2 | 15.4 | 16.0 | 15.5 | 15.0 | 15.8 | 15.2 | 15.5 | 16.1 | 16.2 |
| Chronic obstructive pulmonary diseases..... | 88.8 | 64.2 | 63.6 | 64.4 | 63.8 | 63.2 | 64.0 | 63.3 | 63.0 | 61.7 | 60.3 |
| Pneumonia and influenza..... | 353.2 | 88.7 | 74.1 | 74.0 | 75.5 | 77.6 | 81.6 | 77.0 | 81.4 | 80.0 | 76.3 |
| Chronic liver disease and cirrhosis..... | 209.8 | 166.9 | 150.4 | 143.0 | 141.7 | 136.8 | 134.2 | 136.9 | 140.6 | 139.8 | 132.5 |
| Diabetes mellitus..... | 75.3 | 52.5 | 52.6 | 52.9 | 52.7 | 53.9 | 55.8 | 58.8 | 62.0 | 67.7 | 65.7 |
| Human immunodeficiency virus infection..... | — | — | — | — | — | — | — | 254.3 | 302.2 | 401.7 | 451.2 |
| Unintentional injuries..... | 2,261.3 | 2,071.0 | 1,771.5 | 1,666.9 | 1,639.4 | 1,606.9 | 1,647.6 | 1,576.3 | 1,563.9 | 1,468.9 | 1,420.1 |
| Motor vehicle crashes..... | 1,296.5 | 1,301.7 | 1,071.3 | 1,005.6 | 1,019.3 | 985.2 | 1,032.7 | 999.2 | 989.2 | 907.4 | 886.8 |
| Suicide..... | 369.6 | 509.0 | 518.6 | 510.4 | 526.4 | 529.4 | 548.0 | 533.1 | 529.9 | 520.7 | 532.3 |
| Homicide and legal intervention..... | 201.9 | 365.4 | 320.4 | 286.1 | 278.6 | 275.0 | 292.6 | 265.4 | 267.8 | 279.9 | 313.3 |
| Black male | | | | | | | | | | | |
| All causes..... | 20,283.5 | 14,381.9 | 12,973.6 | 12,442.4 | 12,308.9 | 12,675.5 | 13,287.7 | 13,564.8 | 14,059.5 | 14,412.5 | 14,365.8 |
| Diseases of heart..... | 2,022.2 | 1,661.4 | 1,510.8 | 1,552.9 | 1,538.7 | 1,561.7 | 1,556.2 | 1,514.6 | 1,514.2 | 1,458.8 | 1,387.8 |
| Ischemic heart disease..... | — | 800.9 | 740.0 | 704.3 | 697.3 | 684.9 | 642.8 | 621.1 | 602.7 | 598.2 | 552.5 |
| Cerebrovascular diseases..... | 595.6 | 349.3 | 309.3 | 293.6 | 302.6 | 295.8 | 295.1 | 288.2 | 300.7 | 283.2 | 279.9 |
| Malignant neoplasms..... | 1,216.0 | 1,175.8 | 1,160.9 | 1,141.2 | 1,167.9 | 1,141.3 | 1,121.7 | 1,093.8 | 1,109.2 | 1,125.0 | 1,131.9 |
| Respiratory system..... | 376.7 | 400.4 | 388.2 | 384.2 | 390.9 | 386.0 | 375.3 | 366.0 | 360.6 | 368.6 | 378.2 |
| Colorectal..... | 80.8 | 76.7 | 79.8 | 75.9 | 81.9 | 79.4 | 76.8 | 83.9 | 82.5 | 80.7 | 83.8 |
| Prostate..... | 35.2 | 34.1 | 30.0 | 31.3 | 30.5 | 33.1 | 29.4 | 28.4 | 31.1 | 30.2 | 30.5 |
| Chronic obstructive pulmonary diseases..... | 146.8 | 110.8 | 111.4 | 114.7 | 107.8 | 114.6 | 116.9 | 122.4 | 122.5 | 120.3 | 121.9 |
| Pneumonia and influenza..... | 1,308.9 | 315.2 | 254.2 | 257.6 | 244.2 | 254.9 | 249.3 | 261.3 | 274.1 | 275.1 | 261.4 |
| Chronic liver disease and cirrhosis..... | 463.5 | 391.9 | 298.5 | 288.7 | 289.5 | 305.8 | 282.0 | 296.8 | 276.0 | 269.4 | 242.4 |
| Diabetes mellitus..... | 144.0 | 102.2 | 94.3 | 106.0 | 106.4 | 106.1 | 108.2 | 108.6 | 126.4 | 139.6 | 133.7 |
| Human immunodeficiency virus infection..... | — | — | — | — | — | — | — | 719.7 | 892.7 | 1,124.3 | 1,224.5 |
| Unintentional injuries..... | 3,500.6 | 2,308.9 | 1,948.8 | 1,865.3 | 1,874.9 | 1,891.1 | 1,979.9 | 1,985.0 | 2,003.8 | 1,945.8 | 1,807.4 |
| Motor vehicle crashes..... | 1,466.1 | 1,022.4 | 857.7 | 832.5 | 872.7 | 893.7 | 967.7 | 943.2 | 964.3 | 938.7 | 919.9 |
| Suicide..... | 237.5 | 323.8 | 318.3 | 305.4 | 324.1 | 336.9 | 340.2 | 356.1 | 369.2 | 394.0 | 376.3 |
| Homicide and legal intervention..... | 2,234.6 | 2,274.9 | 2,030.1 | 1,760.2 | 1,664.0 | 1,689.1 | 1,956.0 | 1,924.0 | 2,148.2 | 2,287.7 | 2,580.7 |

See footnotes at end of table.

Table 29 (page 2 of 2). Years of potential life lost before age 65 for selected causes of death, according to sex and race: United States, selected years 1970–90

[Data are based on the National Vital Statistics System]

| Sex, race, and cause of death | 1970 | 1980 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|--|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| White female | | | | | | | | | | | |
| All causes | 5,527.4 | 3,983.2 | 3,729.5 | 3,631.1 | 3,594.0 | 3,542.3 | 3,519.0 | 3,484.4 | 3,475.0 | 3,433.9 | 3,330.7 |
| Diseases of heart | 497.4 | 401.2 | 384.0 | 385.9 | 377.2 | 369.4 | 363.8 | 357.2 | 344.1 | 317.3 | 309.6 |
| Ischemic heart disease | — | 227.9 | 216.6 | 211.0 | 202.4 | 195.4 | 185.5 | 181.5 | 171.9 | 160.8 | 155.9 |
| Cerebrovascular diseases | 180.1 | 111.6 | 100.7 | 97.5 | 98.5 | 93.0 | 90.5 | 89.8 | 87.2 | 82.8 | 84.5 |
| Malignant neoplasms | 974.6 | 858.3 | 852.3 | 843.1 | 847.7 | 846.4 | 834.4 | 827.1 | 828.8 | 831.9 | 829.1 |
| Respiratory system | 89.8 | 132.6 | 139.1 | 142.2 | 141.8 | 144.9 | 142.8 | 145.8 | 149.4 | 148.7 | 150.2 |
| Colorectal | 77.0 | 64.0 | 60.1 | 59.7 | 59.3 | 57.9 | 56.9 | 56.4 | 54.1 | 51.8 | 52.2 |
| Breast | 233.4 | 211.7 | 211.5 | 207.8 | 214.8 | 215.1 | 213.4 | 212.7 | 215.4 | 217.2 | 217.5 |
| Chronic obstructive pulmonary diseases | 46.5 | 43.0 | 44.7 | 48.2 | 47.3 | 51.8 | 50.7 | 52.4 | 51.6 | 55.2 | 52.7 |
| Pneumonia and influenza | 247.2 | 64.0 | 49.2 | 52.6 | 50.3 | 52.1 | 51.8 | 49.4 | 51.6 | 52.0 | 50.5 |
| Chronic liver disease and cirrhosis | 114.7 | 79.1 | 64.6 | 63.7 | 60.9 | 58.9 | 56.9 | 54.5 | 54.2 | 51.3 | 51.3 |
| Diabetes mellitus | 65.1 | 45.4 | 44.2 | 47.1 | 42.4 | 43.2 | 46.4 | 44.6 | 47.7 | 52.1 | 52.0 |
| Human immunodeficiency virus infection | — | — | — | — | — | — | — | 19.0 | 23.9 | 31.2 | 35.0 |
| Unintentional injuries | 755.6 | 647.8 | 552.3 | 538.8 | 542.9 | 532.4 | 542.5 | 543.1 | 541.4 | 534.9 | 494.2 |
| Motor vehicle crashes | 466.5 | 437.3 | 364.9 | 355.1 | 371.2 | 364.2 | 372.8 | 383.1 | 383.9 | 377.4 | 351.6 |
| Suicide | 157.2 | 145.4 | 148.4 | 142.6 | 143.0 | 137.7 | 140.6 | 137.7 | 132.5 | 127.3 | 126.3 |
| Homicide and legal intervention | 69.7 | 109.3 | 107.7 | 93.1 | 100.1 | 98.1 | 102.7 | 100.3 | 99.7 | 97.6 | 97.5 |
| Black female | | | | | | | | | | | |
| All causes | 12,188.8 | 7,927.2 | 7,194.7 | 7,057.6 | 6,958.2 | 6,961.4 | 7,108.0 | 7,211.7 | 7,455.1 | 7,542.7 | 7,382.2 |
| Diseases of heart | 1,292.7 | 937.2 | 858.2 | 871.4 | 853.1 | 856.7 | 868.6 | 832.0 | 845.7 | 811.5 | 782.4 |
| Ischemic heart disease | — | 382.7 | 364.9 | 349.8 | 333.2 | 325.1 | 310.0 | 296.2 | 296.9 | 287.7 | 272.3 |
| Cerebrovascular diseases | 564.7 | 289.0 | 271.7 | 262.4 | 250.9 | 248.8 | 240.9 | 243.2 | 241.5 | 234.9 | 235.8 |
| Malignant neoplasms | 1,044.8 | 968.4 | 946.3 | 944.2 | 954.1 | 936.8 | 975.7 | 971.6 | 960.7 | 939.9 | 972.7 |
| Respiratory system | 89.3 | 132.8 | 132.9 | 138.8 | 133.2 | 137.6 | 139.5 | 145.5 | 137.9 | 144.8 | 149.0 |
| Colorectal | 81.4 | 70.3 | 75.5 | 67.9 | 67.0 | 74.7 | 69.3 | 71.7 | 72.4 | 65.7 | 72.9 |
| Breast | 209.3 | 210.9 | 221.5 | 222.3 | 247.0 | 236.4 | 260.2 | 263.8 | 271.5 | 257.3 | 264.1 |
| Chronic obstructive pulmonary diseases | 98.3 | 62.5 | 71.9 | 72.1 | 71.1 | 74.5 | 72.3 | 78.3 | 86.0 | 80.4 | 80.6 |
| Pneumonia and influenza | 888.7 | 187.4 | 148.9 | 133.9 | 142.6 | 141.1 | 154.2 | 145.9 | 154.0 | 163.3 | 145.6 |
| Chronic liver disease and cirrhosis | 295.6 | 210.9 | 162.2 | 159.8 | 149.0 | 146.7 | 139.3 | 139.9 | 131.1 | 118.9 | 122.7 |
| Diabetes mellitus | 179.7 | 109.3 | 99.7 | 107.6 | 99.6 | 100.8 | 105.4 | 103.0 | 113.5 | 113.8 | 125.8 |
| Human immunodeficiency virus infection | — | — | — | — | — | — | — | 170.7 | 218.0 | 280.9 | 336.7 |
| Unintentional injuries | 1,169.9 | 718.5 | 651.4 | 650.9 | 600.4 | 616.8 | 649.3 | 634.9 | 692.3 | 662.3 | 614.4 |
| Motor vehicle crashes | 478.4 | 296.8 | 276.1 | 262.3 | 269.4 | 283.1 | 293.3 | 304.5 | 328.2 | 315.2 | 305.6 |
| Suicide | 81.9 | 70.3 | 65.7 | 68.0 | 66.0 | 59.1 | 66.1 | 66.9 | 74.2 | 75.0 | 69.8 |
| Homicide and legal intervention | 460.3 | 492.0 | 431.0 | 414.6 | 421.3 | 399.8 | 447.7 | 467.4 | 495.8 | 481.4 | 509.8 |

¹Male only.

²Female only.

NOTES: For data years shown, the code numbers for cause of death are based on the International Classification of Diseases, Ninth Revision, described in Appendix II, table V. International Classification of Diseases codes for human immunodeficiency virus infection not available for use with the National Vital Statistics System until 1987. Years of potential life lost before age 65 provides a measure of the impact of mortality on the population under 65 years of age. See Appendix II for method of calculation. Data for the 1980's have been revised based on intercensal population estimates and differ from previous editions of Health, United States. See Appendix I, Department of Commerce.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Vital Statistics of the United States, Vol. II, Mortality, Part A, for data years 1970–90. Public Health Service. Washington. U.S. Government Printing Office; Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics and from table 1.

Table 30 (page 1 of 3). Numbers of deaths and rank for selected causes of death, according to sex and detailed race: United States, 1985–90

[Data are based on the National Vital Statistics System]

| Sex, race, and cause of death | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|------|------|------|------|------|------|
| All races | | | | | | | | | | | | |
| Number | | | | | | | | | | | | |
| All causes | 2,086,440 | 2,105,361 | 2,123,323 | 2,167,999 | 2,150,466 | 2,148,463 | ... | ... | ... | ... | ... | ... |
| Diseases of heart | 771,169 | 765,490 | 760,353 | 765,156 | 733,867 | 720,058 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cerebrovascular diseases | 153,050 | 149,643 | 149,835 | 150,517 | 145,551 | 144,088 | 3 | 3 | 3 | 3 | 3 | 3 |
| Malignant neoplasms | 461,563 | 469,376 | 476,927 | 485,048 | 496,152 | 505,322 | 2 | 2 | 2 | 2 | 2 | 2 |
| Chronic obstructive pulmonary diseases | 74,662 | 76,559 | 78,380 | 82,853 | 84,344 | 86,679 | 5 | 5 | 5 | 5 | 5 | 5 |
| Pneumonia and influenza | 67,615 | 69,812 | 69,225 | 77,662 | 76,550 | 79,513 | 6 | 6 | 6 | 6 | 6 | 6 |
| Chronic liver disease and cirrhosis | 26,767 | 26,159 | 26,201 | 26,409 | 26,694 | 25,815 | 9 | 9 | 9 | 9 | 9 | 9 |
| Diabetes mellitus | 36,969 | 37,184 | 38,532 | 40,368 | 46,833 | 47,664 | 7 | 7 | 7 | 7 | 7 | 7 |
| Nephritis, nephrotic syndrome, and nephrosis | 21,349 | 21,767 | 22,052 | 22,392 | 21,118 | 20,764 | 11 | 11 | 11 | 10 | 12 | 12 |
| Septicemia | 17,182 | 18,795 | 19,916 | 20,925 | 19,333 | 19,169 | 14 | 13 | 13 | 13 | 14 | 13 |
| Atherosclerosis | 23,926 | 22,706 | 22,474 | 22,086 | 19,357 | 18,047 | 10 | 10 | 10 | 11 | 13 | 14 |
| Human immunodeficiency virus infection | --- | --- | 13,468 | 16,602 | 22,082 | 25,188 | --- | --- | 15 | 15 | 11 | 10 |
| Unintentional injuries | 93,457 | 95,277 | 95,020 | 97,100 | 95,028 | 91,983 | 4 | 4 | 4 | 4 | 4 | 4 |
| Suicide | 29,453 | 30,904 | 30,796 | 30,407 | 30,232 | 30,906 | 8 | 8 | 8 | 8 | 8 | 8 |
| Homicide and legal intervention | 19,893 | 21,731 | 21,103 | 22,032 | 22,909 | 24,932 | 12 | 12 | 12 | 10 | 11 | 11 |
| White male | | | | | | | | | | | | |
| All causes | 950,455 | 952,554 | 953,382 | 965,419 | 950,852 | 950,812 | ... | ... | ... | ... | ... | ... |
| Diseases of heart | 355,374 | 347,967 | 342,063 | 341,519 | 325,397 | 319,362 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cerebrovascular diseases | 51,965 | 50,365 | 50,237 | 50,692 | 48,563 | 48,024 | 4 | 4 | 4 | 4 | 4 | 4 |
| Malignant neoplasms | 215,079 | 218,381 | 221,757 | 224,514 | 228,301 | 232,608 | 2 | 2 | 2 | 2 | 2 | 2 |
| Chronic obstructive pulmonary diseases | 43,074 | 43,341 | 43,290 | 44,827 | 44,046 | 45,234 | 5 | 5 | 5 | 5 | 5 | 5 |
| Pneumonia and influenza | 29,028 | 29,891 | 29,284 | 32,262 | 30,892 | 32,101 | 6 | 6 | 6 | 6 | 6 | 6 |
| Chronic liver disease and cirrhosis | 14,321 | 14,099 | 14,175 | 14,381 | 14,414 | 13,889 | 8 | 8 | 8 | 8 | 9 | 10 |
| Diabetes mellitus | 12,758 | 12,788 | 13,553 | 14,008 | 16,282 | 16,817 | 9 | 9 | 9 | 9 | 8 | 8 |
| Nephritis, nephrotic syndrome, and nephrosis | 8,482 | 8,754 | 8,800 | 8,786 | 8,093 | 8,021 | 10 | 10 | 10 | 11 | 12 | 12 |
| Septicemia | 6,321 | 6,962 | 7,096 | 7,270 | 6,728 | 6,786 | 14 | 13 | 14 | 14 | 13 | 13 |
| Atherosclerosis | 8,251 | 7,767 | 7,686 | 7,529 | 6,652 | 6,232 | 11 | 12 | 13 | 13 | 14 | 14 |
| Human immunodeficiency virus infection | --- | --- | 8,700 | 10,479 | 14,114 | 16,106 | --- | --- | 11 | 10 | 10 | 9 |
| Unintentional injuries | 53,856 | 54,864 | 53,936 | 54,435 | 52,691 | 51,348 | 3 | 3 | 3 | 3 | 3 | 3 |
| Suicide | 21,256 | 22,270 | 22,188 | 21,980 | 21,858 | 22,448 | 7 | 7 | 7 | 7 | 7 | 7 |
| Homicide and legal intervention | 8,122 | 8,567 | 7,979 | 7,994 | 8,337 | 9,147 | 12 | 11 | 12 | 12 | 11 | 11 |
| Black male | | | | | | | | | | | | |
| All causes | 133,610 | 137,214 | 139,551 | 144,228 | 146,393 | 145,359 | ... | ... | ... | ... | ... | ... |
| Diseases of heart | 38,982 | 39,076 | 38,934 | 39,584 | 38,321 | 37,038 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cerebrovascular diseases | 8,000 | 7,938 | 7,852 | 8,098 | 7,739 | 7,653 | 4 | 4 | 4 | 5 | 5 | 5 |
| Malignant neoplasms | 29,028 | 29,363 | 29,928 | 30,321 | 31,452 | 31,995 | 2 | 2 | 2 | 2 | 2 | 2 |
| Chronic obstructive pulmonary diseases | 3,154 | 3,302 | 3,319 | 3,644 | 3,593 | 3,628 | 8 | 8 | 8 | 9 | 9 | 9 |
| Pneumonia and influenza | 3,664 | 3,836 | 3,795 | 4,047 | 4,168 | 4,161 | 6 | 6 | 6 | 7 | 7 | 7 |
| Chronic liver disease and cirrhosis | 2,616 | 2,404 | 2,574 | 2,476 | 2,517 | 2,393 | 9 | 9 | 10 | 11 | 11 | 11 |
| Diabetes mellitus | 2,230 | 2,295 | 2,388 | 2,640 | 3,072 | 3,049 | 10 | 10 | 11 | 10 | 10 | 10 |
| Nephritis, nephrotic syndrome, and nephrosis | 1,935 | 1,963 | 1,905 | 1,908 | 2,047 | 1,806 | 11 | 11 | 12 | 12 | 12 | 12 |
| Septicemia | 1,595 | 1,697 | 1,760 | 1,729 | 1,643 | 1,624 | 12 | 12 | 13 | 13 | 14 | 14 |
| Atherosclerosis | 758 | 756 | 680 | 739 | 547 | 563 | 16 | 15 | 17 | 17 | 17 | 17 |
| Human immunodeficiency virus infection | --- | --- | 3,301 | 4,202 | 5,475 | 6,097 | ---- | ---- | 9 | 6 | 6 | 6 |
| Unintentional injuries | 8,752 | 9,035 | 9,159 | 9,608 | 9,503 | 8,756 | 3 | 3 | 3 | 3 | 3 | 4 |
| Suicide | 1,481 | 1,537 | 1,635 | 1,648 | 1,771 | 1,737 | 13 | 13 | 14 | 14 | 13 | 13 |
| Homicide and legal intervention | 6,616 | 7,634 | 7,518 | 8,314 | 8,888 | 9,981 | 5 | 5 | 4 | 4 | 4 | 3 |
| American Indian male | | | | | | | | | | | | |
| All causes | 4,181 | 4,365 | 4,432 | 4,617 | 5,066 | 4,877 | ... | ... | ... | ... | ... | ... |
| Diseases of heart | 1,001 | 999 | 1,062 | 1,048 | 1,184 | 1,106 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cerebrovascular diseases | 157 | 140 | 180 | 171 | 193 | 164 | 7 | 7 | 5 | 7 | 6 | 8 |
| Malignant neoplasms | 533 | 522 | 496 | 594 | 706 | 629 | 3 | 3 | 3 | 3 | 3 | 3 |
| Chronic obstructive pulmonary diseases | 89 | 107 | 102 | 112 | 143 | 141 | 10 | 9 | 10 | 10 | 10 | 10 |
| Pneumonia and influenza | 151 | 138 | 153 | 147 | 165 | 170 | 8 | 8 | 8 | 8 | 8 | 7 |
| Chronic liver disease and cirrhosis | 173 | 176 | 168 | 193 | 214 | 184 | 4 | 6 | 6 | 4 | 4 | 5 |
| Diabetes mellitus | 102 | 97 | 111 | 124 | 155 | 152 | 9 | 10 | 9 | 9 | 9 | 9 |
| Nephritis, nephrotic syndrome, and nephrosis | 36 | 43 | 53 | 50 | 43 | 58 | 13 | 14 | 12 | 13 | 13 | 13 |
| Septicemia | 30 | 44 | 33 | 35 | 36 | 50 | 14 | 13 | 14 | 14 | 14 | 14 |
| Atherosclerosis | 12 | 22 | 17 | 19 | 17 | 17 | 16 | 15 | 15 | 16 | 17 | 16 |
| Human immunodeficiency virus infection | --- | --- | 17 | 26 | 28 | 33 | ---- | ---- | 15 | 15 | 15 | 15 |
| Unintentional injuries | 804 | 871 | 884 | 900 | 885 | 883 | 2 | 2 | 2 | 2 | 2 | 2 |
| Suicide | 172 | 181 | 186 | 192 | 197 | 214 | 5 | 5 | 4 | 5 | 5 | 4 |
| Homicide and legal intervention | 161 | 194 | 158 | 178 | 177 | 177 | 6 | 4 | 7 | 6 | 7 | 6 |

See footnotes at end of table.

Table 30 (page 2 of 3). Numbers of deaths and rank for selected causes of death, according to sex and detailed race: United States, 1985–90

[Data are based on the National Vital Statistics System]

| Sex, race, and cause of death | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|--|---------|---------|---------|---------|---------|---------|------|------|------|------|------|------|
| Asian or Pacific Islander male | | | | Number | | | | | | Rank | | |
| All causes | 9,441 | 9,795 | 10,496 | 11,155 | 11,688 | 12,211 | ... | ... | ... | ... | ... | ... |
| Diseases of heart | 2,837 | 2,853 | 3,137 | 3,225 | 3,240 | 3,238 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cerebrovascular diseases | 658 | 718 | 788 | 791 | 821 | 853 | 4 | 4 | 4 | 4 | 3 | 4 |
| Malignant neoplasms | 2,262 | 2,281 | 2,454 | 2,639 | 2,821 | 3,021 | 2 | 2 | 2 | 2 | 2 | 2 |
| Chronic obstructive pulmonary diseases | 276 | 308 | 327 | 353 | 391 | 412 | 6 | 6 | 6 | 6 | 6 | 6 |
| Pneumonia and influenza | 315 | 334 | 329 | 376 | 473 | 462 | 5 | 5 | 5 | 5 | 5 | 5 |
| Chronic liver disease and cirrhosis | 133 | 115 | 133 | 145 | 161 | 160 | 11 | 12 | 11 | 11 | 12 | 10 |
| Diabetes mellitus | 172 | 186 | 183 | 200 | 217 | 244 | 8 | 9 | 9 | 9 | 9 | 9 |
| Nephritis, nephrotic syndrome, and nephrosis | 98 | 101 | 113 | 134 | 134 | 119 | 13 | 13 | 12 | 13 | 13 | 14 |
| Septicemia | 71 | 82 | 79 | 97 | 81 | 79 | 14 | 14 | 14 | 15 | 15 | 15 |
| Atherosclerosis | 40 | 42 | 44 | 40 | 38 | 47 | 16 | 16 | 17 | 19 | 20 | 18 |
| Human immunodeficiency virus infection | --- | --- | 69 | 99 | 132 | 149 | --- | --- | 15 | 14 | 14 | 12 |
| Unintentional injuries | 734 | 791 | 827 | 864 | 809 | 935 | 3 | 3 | 3 | 3 | 4 | 3 |
| Suicide | 230 | 237 | 257 | 255 | 270 | 318 | 7 | 7 | 7 | 7 | 8 | 7 |
| Homicide and legal intervention | 164 | 195 | 190 | 221 | 279 | 289 | 9 | 8 | 8 | 8 | 7 | 8 |
| White female | | | | | | | | | | | | |
| All causes | 868,599 | 878,529 | 889,685 | 911,487 | 902,989 | 902,442 | ... | ... | ... | ... | ... | ... |
| Diseases of heart | 332,778 | 333,396 | 333,669 | 337,007 | 323,469 | 318,002 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cerebrovascular diseases | 81,067 | 79,641 | 79,810 | 79,383 | 76,953 | 76,502 | 3 | 3 | 3 | 3 | 3 | 3 |
| Malignant neoplasms | 190,648 | 193,971 | 196,716 | 200,626 | 205,855 | 208,977 | 2 | 2 | 2 | 2 | 2 | 2 |
| Chronic obstructive pulmonary diseases | 26,364 | 27,781 | 29,378 | 31,846 | 33,835 | 34,945 | 5 | 5 | 5 | 5 | 5 | 5 |
| Pneumonia and influenza | 31,480 | 32,432 | 32,527 | 37,308 | 36,961 | 38,705 | 4 | 4 | 4 | 4 | 4 | 4 |
| Chronic liver disease and cirrhosis | 7,871 | 7,817 | 7,591 | 7,543 | 7,797 | 7,589 | 10 | 11 | 11 | 11 | 11 | 11 |
| Diabetes mellitus | 17,547 | 17,496 | 17,842 | 18,684 | 21,771 | 21,879 | 7 | 7 | 7 | 7 | 7 | 7 |
| Nephritis, nephrotic syndrome, and nephrosis | 8,564 | 8,692 | 8,964 | 9,129 | 8,514 | 8,550 | 9 | 9 | 9 | 10 | 10 | 10 |
| Septicemia | 7,419 | 8,194 | 8,840 | 9,673 | 8,829 | 8,670 | 11 | 10 | 10 | 9 | 9 | 9 |
| Atherosclerosis | 13,770 | 13,091 | 13,040 | 12,732 | 11,139 | 10,315 | 8 | 8 | 8 | 8 | 8 | 8 |
| Human immunodeficiency virus infection | --- | --- | 628 | 788 | 981 | 1,149 | --- | --- | 24 | 24 | 23 | 23 |
| Unintentional injuries | 25,155 | 25,451 | 25,874 | 26,656 | 26,448 | 25,586 | 6 | 6 | 6 | 6 | 6 | 6 |
| Suicide | 5,831 | 6,167 | 6,029 | 5,810 | 5,566 | 5,638 | 12 | 12 | 12 | 12 | 12 | 12 |
| Homicide and legal intervention | 3,041 | 3,123 | 3,149 | 3,072 | 2,971 | 3,006 | 17 | 17 | 16 | 18 | 18 | 18 |
| Black female | | | | | | | | | | | | |
| All causes | 110,597 | 113,112 | 115,263 | 119,791 | 121,249 | 120,139 | ... | ... | ... | ... | ... | ... |
| Diseases of heart | 37,702 | 38,650 | 38,813 | 39,882 | 39,110 | 38,073 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cerebrovascular diseases | 10,341 | 10,014 | 10,055 | 10,381 | 10,240 | 9,754 | 3 | 3 | 3 | 3 | 3 | 3 |
| Malignant neoplasms | 21,878 | 22,616 | 23,099 | 23,647 | 24,112 | 25,082 | 2 | 2 | 2 | 2 | 2 | 2 |
| Chronic obstructive pulmonary diseases | 1,505 | 1,554 | 1,733 | 1,832 | 2,078 | 2,027 | 11 | 11 | 11 | 11 | 9 | 10 |
| Pneumonia and influenza | 2,674 | 2,864 | 2,770 | 3,144 | 3,417 | 3,402 | 7 | 6 | 6 | 6 | 6 | 6 |
| Chronic liver disease and cirrhosis | 1,439 | 1,341 | 1,342 | 1,427 | 1,334 | 1,360 | 12 | 12 | 12 | 12 | 12 | 13 |
| Diabetes mellitus | 3,874 | 4,004 | 4,109 | 4,332 | 4,883 | 5,065 | 4 | 4 | 4 | 4 | 4 | 4 |
| Nephritis, nephrotic syndrome, and nephrosis | 2,109 | 2,057 | 2,070 | 2,249 | 2,119 | 2,049 | 8 | 8 | 8 | 8 | 8 | 9 |
| Septicemia | 1,662 | 1,720 | 1,988 | 2,011 | 1,912 | 1,841 | 10 | 10 | 9 | 10 | 11 | 11 |
| Atherosclerosis | 1,022 | 964 | 942 | 955 | 889 | 817 | 13 | 15 | 15 | 15 | 16 | 16 |
| Human immunodeficiency virus infection | --- | --- | 739 | 995 | 1,320 | 1,633 | --- | --- | 16 | 14 | 13 | 12 |
| Unintentional injuries | 3,455 | 3,550 | 3,618 | 3,879 | 3,901 | 3,663 | 5 | 5 | 5 | 5 | 5 | 5 |
| Suicide | 314 | 355 | 328 | 374 | 382 | 374 | 19 | 19 | 19 | 20 | 19 | 20 |
| Homicide and legal intervention | 1,666 | 1,861 | 1,969 | 2,089 | 2,074 | 2,163 | 9 | 9 | 10 | 9 | 10 | 8 |
| American Indian female | | | | | | | | | | | | |
| All causes | 2,973 | 2,936 | 3,170 | 3,300 | 3,548 | 3,439 | ... | ... | ... | ... | ... | ... |
| Diseases of heart | 732 | 683 | 755 | 777 | 860 | 807 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cerebrovascular diseases | 189 | 175 | 185 | 200 | 181 | 201 | 4 | 4 | 4 | 4 | 5 | 4 |
| Malignant neoplasms | 456 | 466 | 549 | 557 | 612 | 646 | 2 | 2 | 2 | 2 | 2 | 2 |
| Chronic obstructive pulmonary diseases | 51 | 46 | 71 | 66 | 85 | 91 | 10 | 12 | 8 | 8 | 8 | 8 |
| Pneumonia and influenza | 99 | 85 | 110 | 131 | 142 | 147 | 7 | 7 | 7 | 7 | 7 | 7 |
| Chronic liver disease and cirrhosis | 147 | 124 | 134 | 162 | 172 | 154 | 6 | 6 | 6 | 6 | 6 | 6 |
| Diabetes mellitus | 150 | 137 | 158 | 187 | 211 | 198 | 5 | 5 | 5 | 5 | 4 | 5 |
| Nephritis, nephrotic syndrome, and nephrosis | 56 | 74 | 63 | 53 | 59 | 54 | 8 | 8 | 9 | 10 | 11 | 10 |
| Septicemia | 39 | 33 | 37 | 50 | 35 | 38 | 12 | 14 | 14 | 12 | 13 | 13 |
| Atherosclerosis | 26 | 26 | 20 | 26 | 29 | 17 | 15 | 15 | 15 | 15 | 15 | 15 |
| Human immunodeficiency virus infection | --- | --- | 3 | - | 8 | 3 | --- | --- | 26 | ... | 23 | 29 |
| Unintentional injuries | 306 | 339 | 305 | 306 | 318 | 299 | 3 | 3 | 3 | 3 | 3 | 3 |
| Suicide | 38 | 37 | 39 | 36 | 35 | 38 | 14 | 13 | 13 | 14 | 13 | 13 |
| Homicide and legal intervention | 39 | 55 | 51 | 50 | 72 | 51 | 12 | 11 | 11 | 12 | 10 | 11 |

See footnotes at end of table.

Table 30 (page 3 of 3). Numbers of deaths and rank for selected causes of death, according to sex and detailed race: United States, 1985–90

[Data are based on the National Vital Statistics System]

| Sex, race, and cause of death | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|---|-------|-------|-------|--------|-------|-------|------|------|------|------|------|------|
| Asian or Pacific Islander female | | | | Number | | | | | | | Rank | |
| All causes..... | 6,446 | 6,719 | 7,193 | 7,808 | 8,354 | 8,916 | ... | ... | ... | ... | ... | ... |
| Diseases of heart..... | 1,729 | 1,834 | 1,875 | 2,065 | 2,186 | 2,360 | 1 | 1 | 2 | 2 | 2 | 1 |
| Cerebrovascular diseases..... | 669 | 641 | 719 | 789 | 846 | 924 | 3 | 3 | 3 | 3 | 3 | 3 |
| Malignant neoplasms..... | 1,649 | 1,752 | 1,902 | 2,115 | 2,236 | 2,302 | 2 | 2 | 1 | 1 | 1 | 2 |
| Chronic obstructive pulmonary diseases..... | 146 | 120 | 159 | 168 | 167 | 199 | 6 | 8 | 7 | 7 | 7 | 7 |
| Pneumonia and influenza..... | 201 | 226 | 253 | 242 | 328 | 355 | 5 | 5 | 5 | 5 | 5 | 5 |
| Chronic liver disease and cirrhosis..... | 66 | 78 | 82 | 78 | 79 | 85 | 13 | 13 | 12 | 13 | 13 | 13 |
| Diabetes mellitus..... | 132 | 175 | 184 | 188 | 231 | 256 | 7 | 6 | 6 | 6 | 6 | 6 |
| Nephritis, nephrotic syndrome, and nephrosis..... | 68 | 81 | 83 | 80 | 105 | 103 | 12 | 12 | 11 | 12 | 11 | 12 |
| Septicemia..... | 44 | 62 | 80 | 59 | 68 | 77 | 15 | 14 | 13 | 14 | 14 | 14 |
| Atherosclerosis..... | 46 | 37 | 43 | 46 | 46 | 39 | 14 | 15 | 15 | 15 | 15 | 16 |
| Human immunodeficiency virus infection..... | --- | --- | 10 | 8 | 14 | 16 | --- | --- | 24 | 27 | 24 | 22 |
| Unintentional injuries..... | 380 | 366 | 407 | 433 | 442 | 487 | 4 | 4 | 4 | 4 | 4 | 4 |
| Suicide..... | 123 | 118 | 126 | 109 | 143 | 131 | 9 | 9 | 9 | 10 | 8 | 10 |
| Homicide and legal intervention..... | 79 | 97 | 79 | 109 | 102 | 107 | 11 | 11 | 14 | 10 | 12 | 11 |

NOTES: For data years shown, the code numbers for cause of death are based on the International Classification of Diseases, Ninth Revision, described in Appendix II, table V. Categories for the coding and classification of human immunodeficiency virus infection were introduced in the United States beginning with mortality data for 1987. The number of HIV infection deaths based on the National Vital Statistics System differs from the number of deaths among AIDS cases reported to the CDC AIDS Surveillance System. See Appendix I.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Vital Statistics of the United States, Vol. II, Mortality, Part A, for data years 1985–90. Public Health Service. Washington. U.S. Government Printing Office; Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics.

Table 31 (page 1 of 7). Death rates for selected causes of death, according to detailed race, Hispanic origin, age, and sex: United States, 1980–82, 1985–87, and 1988–90

[Data are based on the National Vital Statistics System]

| Cause of death, race, and age | Both sexes | | | Male | | | Female | | |
|--|------------|----------|----------|----------|----------|----------|----------|----------|----------|
| | 1980–82 | 1985–87 | 1988–90 | 1980–82 | 1985–87 | 1988–90 | 1980–82 | 1985–87 | 1988–90 |
| All causes | | | | | | | | | |
| All races | | | | | | | | | |
| All ages, age adjusted ¹ | 568.6 | 544.2 | 528.6 | 753.7 | 715.3 | 690.7 | 420.9 | 407.5 | 397.4 |
| All ages, crude | 863.3 | 876.7 | 873.0 | 955.3 | 944.1 | 928.9 | 776.4 | 812.7 | 819.9 |
| 1–14 years | 38.1 | 33.9 | 32.3 | 44.5 | 39.8 | 37.3 | 31.4 | 27.7 | 27.1 |
| 15–24 years | 107.7 | 97.8 | 99.1 | 159.9 | 143.4 | 145.7 | 54.5 | 50.9 | 50.5 |
| 25–44 years | 166.4 | 166.4 | 176.5 | 228.5 | 232.1 | 249.6 | 105.7 | 101.7 | 104.3 |
| 45–64 years | 940.2 | 884.9 | 826.1 | 1,243.5 | 1,149.5 | 1,064.1 | 664.8 | 642.4 | 606.4 |
| 65–74 years | 2,929.6 | 2,828.1 | 2,701.6 | 4,005.3 | 3,785.9 | 3,572.7 | 2,106.0 | 2,087.2 | 2,022.9 |
| 75–84 years | 6,482.6 | 6,308.9 | 6,102.4 | 8,567.3 | 8,364.9 | 8,002.9 | 5,254.7 | 5,097.5 | 4,969.6 |
| 85 years and over | 15,404.8 | 15,618.5 | 15,502.3 | 18,262.5 | 18,386.5 | 18,195.4 | 14,189.5 | 14,520.4 | 14,456.3 |
| White | | | | | | | | | |
| All ages, age adjusted ¹ | 544.6 | 519.5 | 501.1 | 724.5 | 684.1 | 655.0 | 401.4 | 388.0 | 376.6 |
| All ages, crude | 881.4 | 900.2 | 896.6 | 966.0 | 958.3 | 941.0 | 800.9 | 844.7 | 854.0 |
| 1–14 years | 35.6 | 31.2 | 29.4 | 41.7 | 36.8 | 34.0 | 29.2 | 25.3 | 24.4 |
| 15–24 years | 104.9 | 98.9 | 91.0 | 155.7 | 137.2 | 132.1 | 52.7 | 49.0 | 47.8 |
| 25–44 years | 146.0 | 145.5 | 152.3 | 199.6 | 202.6 | 215.6 | 92.5 | 88.1 | 88.4 |
| 45–64 years | 886.8 | 833.7 | 772.5 | 1,174.9 | 1,083.7 | 993.8 | 621.6 | 601.2 | 564.6 |
| 65–74 years | 2,864.1 | 2,755.6 | 2,624.5 | 3,939.3 | 3,698.7 | 3,476.4 | 2,038.5 | 2,020.3 | 1,954.4 |
| 75–84 years | 6,464.5 | 6,267.2 | 6,053.9 | 8,594.6 | 8,341.9 | 7,959.3 | 5,222.1 | 5,051.3 | 4,919.8 |
| 85 years and over | 15,658.7 | 15,814.9 | 15,659.4 | 18,609.3 | 18,696.9 | 18,444.1 | 14,423.8 | 14,692.4 | 14,596.0 |
| Black | | | | | | | | | |
| All ages, age adjusted ¹ | 808.5 | 795.6 | 800.0 | 1,070.2 | 1,059.8 | 1,073.3 | 604.9 | 593.8 | 591.1 |
| All ages, crude | 845.3 | 863.0 | 881.0 | 995.5 | 999.5 | 1,018.6 | 710.8 | 740.5 | 757.4 |
| 1–14 years | 53.0 | 49.2 | 49.0 | 61.7 | 57.3 | 56.5 | 44.2 | 40.9 | 41.3 |
| 15–24 years | 127.6 | 125.7 | 152.0 | 191.7 | 188.9 | 236.4 | 66.1 | 64.1 | 68.7 |
| 25–44 years | 334.1 | 337.4 | 371.0 | 485.3 | 491.5 | 543.1 | 204.5 | 203.4 | 219.9 |
| 45–64 years | 1,523.1 | 1,446.6 | 1,406.9 | 2,045.6 | 1,931.0 | 1,888.2 | 1,099.7 | 1,055.4 | 1,019.0 |
| 65–74 years | 3,811.2 | 3,854.5 | 3,794.2 | 5,034.8 | 5,149.8 | 5,063.1 | 2,928.2 | 2,947.2 | 2,911.5 |
| 75–84 years | 7,080.8 | 7,193.0 | 7,077.8 | 8,862.7 | 9,275.5 | 9,228.6 | 5,968.2 | 5,968.6 | 5,860.1 |
| 85 years and over | 12,917.1 | 13,956.3 | 14,376.8 | 15,240.0 | 16,200.3 | 16,674.2 | 11,771.5 | 12,934.2 | 13,384.6 |
| Asian or Pacific Islander ² | | | | | | | | | |
| All ages, age adjusted ¹ | 298.0 | 300.2 | 295.4 | 391.6 | 389.3 | 377.9 | 214.8 | 223.1 | 225.0 |
| All ages, crude | 276.9 | 279.4 | 280.6 | 345.6 | 339.2 | 334.1 | 211.6 | 222.2 | 229.3 |
| 1–14 years | 25.5 | 24.6 | 24.2 | 28.3 | 28.0 | 26.3 | 22.6 | 21.1 | 22.0 |
| 15–24 years | 52.0 | 51.3 | 50.3 | 71.4 | 71.4 | 70.9 | 31.6 | 29.5 | 28.2 |
| 25–44 years | 75.7 | 73.8 | 74.9 | 92.9 | 95.8 | 98.8 | 60.2 | 53.7 | 52.9 |
| 45–64 years | 410.5 | 404.2 | 392.8 | 537.3 | 511.6 | 487.8 | 302.5 | 310.9 | 309.8 |
| 65–74 years | 1,516.0 | 1,504.9 | 1,472.1 | 2,087.4 | 2,036.5 | 1,983.9 | 969.9 | 1,063.5 | 1,058.4 |
| 75–84 years | 3,832.7 | 4,051.2 | 3,998.3 | 5,176.0 | 5,439.1 | 5,127.6 | 2,617.7 | 2,784.3 | 2,994.7 |
| 85 years and over | 9,617.6 | 10,902.5 | 11,002.3 | 12,305.2 | 12,277.8 | 12,577.4 | 7,975.6 | 9,944.1 | 9,881.9 |
| American Indian or Alaskan Native ³ | | | | | | | | | |
| All ages, age adjusted ¹ | 521.5 | 459.1 | 457.6 | 676.4 | 590.8 | 589.9 | 383.8 | 344.5 | 343.3 |
| All ages, crude | 453.8 | 412.1 | 414.1 | 553.4 | 490.1 | 489.7 | 356.5 | 335.7 | 339.9 |
| 1–14 years | 48.0 | 45.2 | 41.1 | 57.0 | 56.3 | 47.9 | 38.6 | 33.7 | 33.9 |
| 15–24 years | 186.7 | 149.9 | 149.4 | 276.8 | 222.2 | 219.9 | 94.2 | 73.3 | 74.1 |
| 25–44 years | 289.6 | 226.5 | 214.3 | 400.1 | 317.6 | 304.2 | 184.1 | 139.6 | 127.6 |
| 45–64 years | 846.7 | 733.5 | 724.0 | 1,091.7 | 911.3 | 904.4 | 621.1 | 569.2 | 557.5 |
| 65–74 years | 2,148.9 | 2,033.4 | 2,104.6 | 2,761.2 | 2,579.8 | 2,647.6 | 1,653.7 | 1,597.7 | 1,671.5 |
| 75–84 years | 4,114.0 | 4,020.8 | 4,052.9 | 5,128.3 | 5,224.7 | 5,226.5 | 3,370.9 | 3,225.9 | 3,289.3 |
| 85 years and over | 9,225.3 | 8,714.0 | 9,093.6 | 11,048.4 | 9,945.4 | 11,192.6 | 8,079.3 | 7,964.7 | 7,912.7 |
| Hispanic ⁴ | | | | | | | | | |
| All ages, age adjusted ¹ | — | 392.2 | 405.1 | — | 519.7 | 536.6 | — | 281.5 | 289.2 |
| All ages, crude | — | 313.0 | 344.4 | — | 373.5 | 405.7 | — | 250.8 | 280.4 |
| 1–14 years | — | 27.0 | 29.7 | — | 31.1 | 34.1 | — | 22.7 | 25.2 |
| 15–24 years | — | 95.6 | 100.5 | — | 148.1 | 152.5 | — | 36.5 | 39.7 |
| 25–44 years | — | 161.3 | 176.8 | — | 242.7 | 266.2 | — | 75.3 | 80.4 |
| 45–64 years | — | 565.4 | 584.7 | — | 744.0 | 779.8 | — | 402.5 | 405.7 |
| 65–74 years | — | 1,870.1 | 1,891.2 | — | 2,467.9 | 2,437.2 | — | 1,418.8 | 1,466.4 |
| 75–84 years | — | 4,304.9 | 4,297.7 | — | 5,507.9 | 5,537.9 | — | 3,497.3 | 3,503.7 |
| 85 years and over | — | 10,488.5 | 11,021.0 | — | 11,886.2 | 12,534.5 | — | 9,681.6 | 10,167.6 |

See footnotes at end of table.

Table 31 (page 2 of 7). Death rates for selected causes of death, according to detailed race, Hispanic origin, age, and sex: United States, 1980–82, 1985–87, and 1988–90

[Data are based on the National Vital Statistics System]

| Cause of death, race, and age | Both sexes | | | Male | | | Female | | |
|--|------------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1980–82 | 1985–87 | 1988–90 | 1980–82 | 1985–87 | 1988–90 | 1980–82 | 1985–87 | 1988–90 |
| Diseases of heart | | | | | | | | | |
| All races | | | | | | | | | |
| Deaths per 100,000 resident population | | | | | | | | | |
| Age 45 years and over, age adjusted ¹ . . . | 702.2 | 631.0 | 569.6 | 973.2 | 862.3 | 772.3 | 491.8 | 451.4 | 411.6 |
| Age 45 years and over, crude. | 1,045.7 | 1,013.2 | 943.0 | 1,226.6 | 1,145.1 | 1,044.2 | 898.4 | 906.3 | 860.7 |
| 45–54 years | 175.7 | 146.9 | 125.9 | 274.8 | 225.3 | 191.5 | 82.9 | 72.7 | 63.4 |
| 55–64 years | 481.7 | 428.7 | 386.0 | 725.8 | 634.1 | 565.0 | 267.2 | 247.0 | 226.5 |
| 65–74 years | 1,181.7 | 1,055.1 | 939.2 | 1,676.8 | 1,480.2 | 1,314.0 | 802.6 | 726.3 | 647.2 |
| 75–84 years | 2,880.6 | 2,615.3 | 2,391.0 | 3,707.9 | 3,381.0 | 3,078.4 | 2,393.3 | 2,164.2 | 1,981.4 |
| 85 years and over | 7,494.7 | 7,276.5 | 6,927.5 | 8,460.8 | 8,031.7 | 7,603.8 | 7,083.8 | 6,976.9 | 6,664.8 |
| White | | | | | | | | | |
| Age 45 years and over, age adjusted ¹ . . . | 691.5 | 616.8 | 553.6 | 969.2 | 851.8 | 758.4 | 475.3 | 433.2 | 392.9 |
| Age 45 years and over, crude. | 1,056.1 | 1,022.7 | 950.7 | 1,237.0 | 1,152.2 | 1,048.4 | 908.0 | 917.0 | 870.4 |
| 45–54 years | 164.2 | 135.3 | 113.9 | 263.1 | 212.7 | 177.8 | 69.8 | 60.7 | 52.0 |
| 55–64 years | 462.8 | 408.2 | 363.9 | 709.8 | 614.7 | 542.4 | 243.6 | 223.0 | 202.3 |
| 65–74 years | 1,166.7 | 1,032.0 | 913.8 | 1,677.9 | 1,465.5 | 1,294.8 | 774.3 | 694.0 | 614.1 |
| 75–84 years | 2,896.8 | 2,612.9 | 2,381.9 | 3,761.3 | 3,404.6 | 3,091.0 | 2,392.6 | 2,148.9 | 1,959.9 |
| 85 years and over | 7,663.1 | 7,411.1 | 7,036.7 | 8,688.6 | 8,229.7 | 7,763.7 | 7,233.9 | 7,092.3 | 6,759.1 |
| Black | | | | | | | | | |
| Age 45 years and over, age adjusted ¹ . . . | 856.0 | 825.2 | 779.3 | 1,094.2 | 1,058.3 | 1,002.6 | 677.5 | 655.1 | 618.2 |
| Age 45 years and over, crude. | 1,063.2 | 1,074.3 | 1,031.5 | 1,256.7 | 1,243.1 | 1,179.5 | 915.9 | 948.4 | 922.1 |
| 45–54 years | 296.3 | 264.4 | 247.0 | 417.8 | 373.3 | 349.1 | 197.0 | 174.6 | 162.4 |
| 55–64 years | 720.3 | 679.5 | 643.5 | 971.2 | 914.2 | 871.8 | 518.9 | 494.6 | 466.0 |
| 65–74 years | 1,430.4 | 1,410.5 | 1,316.2 | 1,813.9 | 1,811.4 | 1,697.7 | 1,153.6 | 1,129.6 | 1,050.9 |
| 75–84 years | 2,895.4 | 2,842.0 | 2,689.2 | 3,406.4 | 3,408.8 | 3,240.9 | 2,576.4 | 2,508.8 | 2,376.9 |
| 85 years and over | 5,814.5 | 6,070.8 | 6,042.2 | 6,405.2 | 6,519.1 | 6,452.6 | 5,523.2 | 5,866.6 | 5,865.0 |
| Asian or Pacific Islander ² | | | | | | | | | |
| Age 45 years and over, age adjusted ¹ . . . | 319.5 | 309.3 | 290.1 | 460.5 | 426.7 | 387.8 | 195.7 | 209.5 | 208.7 |
| Age 45 years and over, crude. | 362.1 | 352.6 | 333.1 | 508.6 | 466.7 | 424.8 | 234.9 | 254.1 | 254.4 |
| 45–54 years | 64.1 | 53.5 | 46.0 | 105.2 | 83.3 | 71.8 | 29.1 | 25.8 | 21.8 |
| 55–64 years | 186.1 | 178.2 | 165.6 | 283.7 | 277.3 | 247.2 | 103.0 | 100.0 | 101.4 |
| 65–74 years | 537.3 | 492.9 | 462.0 | 789.0 | 701.5 | 641.5 | 296.7 | 319.7 | 316.9 |
| 75–84 years | 1,471.3 | 1,485.8 | 1,397.2 | 2,019.6 | 1,995.7 | 1,778.4 | 975.4 | 1,020.4 | 1,058.5 |
| 85 years and over | 4,046.2 | 4,428.7 | 4,360.9 | 5,211.4 | 4,755.1 | 4,779.2 | 3,334.2 | 4,201.3 | 4,063.4 |
| American Indian or Alaskan Native ³ | | | | | | | | | |
| Age 45 years and over, age adjusted ¹ . . . | 421.3 | 402.7 | 393.5 | 561.9 | 548.5 | 529.3 | 302.9 | 282.4 | 282.7 |
| Age 45 years and over, crude. | 480.6 | 466.0 | 453.6 | 600.2 | 579.9 | 557.1 | 376.0 | 367.3 | 364.2 |
| 45–54 years | 133.2 | 128.7 | 118.8 | 199.0 | 197.2 | 179.0 | 72.1 | 64.2 | 62.1 |
| 55–64 years | 327.2 | 308.9 | 307.0 | 456.7 | 432.0 | 437.2 | 209.4 | 198.2 | 190.5 |
| 65–74 years | 738.5 | 689.8 | 665.7 | 984.7 | 959.4 | 878.7 | 539.3 | 474.9 | 495.9 |
| 75–84 years | 1,483.3 | 1,448.6 | 1,432.7 | 1,834.8 | 1,887.3 | 1,814.7 | 1,225.8 | 1,158.9 | 1,184.2 |
| 85 years and over | 3,227.5 | 3,221.3 | 3,333.1 | 3,705.7 | 3,318.8 | 3,961.7 | 2,926.9 | 3,162.0 | 2,979.4 |
| Hispanic ⁴ | | | | | | | | | |
| Age 45 years and over, age adjusted ¹ . . . | --- | 394.4 | 383.2 | --- | 518.6 | 505.0 | --- | 296.1 | 286.5 |
| Age 45 years and over, crude. | --- | 448.2 | 461.9 | --- | 530.2 | 538.1 | --- | 378.0 | 396.6 |
| 45–54 years | --- | 80.2 | 80.0 | --- | 119.5 | 120.5 | --- | 43.4 | 41.6 |
| 55–64 years | --- | 267.1 | 257.1 | --- | 378.2 | 367.3 | --- | 169.5 | 160.5 |
| 65–74 years | --- | 681.3 | 649.7 | --- | 924.9 | 874.8 | --- | 497.4 | 474.6 |
| 75–84 years | --- | 1,662.1 | 1,602.6 | --- | 2,067.0 | 2,026.7 | --- | 1,390.3 | 1,331.1 |
| 85 years and over | --- | 4,514.0 | 4,660.1 | --- | 4,782.9 | 4,877.4 | --- | 4,358.8 | 4,537.6 |

See footnotes at end of table.

Table 31 (page 3 of 7). Death rates for selected causes of death, according to detailed race, Hispanic origin, age, and sex: United States, 1980–82, 1985–87, and 1988–90

[Data are based on the National Vital Statistics System]

| Cause of death, race, and age | Both sexes | | | Male | | | Female | | |
|--|------------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1980–82 | 1985–87 | 1988–90 | 1980–82 | 1985–87 | 1988–90 | 1980–82 | 1985–87 | 1988–90 |
| Cerebrovascular diseases | | | | | | | | | |
| All races | | | | | | | | | |
| Deaths per 100,000 resident population | | | | | | | | | |
| Age 45 years and over, age adjusted ¹ . . . | 136.3 | 111.6 | 101.6 | 150.0 | 121.7 | 111.3 | 125.8 | 103.5 | 94.0 |
| Age 45 years and over, crude | 226.2 | 199.4 | 186.6 | 204.2 | 174.7 | 162.7 | 244.1 | 219.5 | 206.1 |
| 45–54 years | 24.6 | 20.7 | 18.8 | 26.4 | 22.3 | 20.6 | 22.9 | 19.1 | 17.2 |
| 55–64 years | 62.4 | 53.7 | 49.9 | 71.2 | 61.6 | 57.3 | 54.7 | 46.8 | 43.3 |
| 65–74 years | 206.0 | 166.0 | 149.4 | 242.8 | 191.1 | 172.7 | 177.8 | 146.5 | 131.3 |
| 75–84 years | 725.5 | 576.0 | 519.5 | 794.9 | 634.3 | 572.3 | 684.6 | 541.6 | 488.0 |
| 85 years and over | 2,127.7 | 1,802.1 | 1,677.1 | 2,043.9 | 1,679.8 | 1,581.6 | 2,163.3 | 1,850.7 | 1,714.3 |
| White | | | | | | | | | |
| Age 45 years and over, age adjusted ¹ . . . | 128.2 | 104.4 | 94.5 | 141.0 | 113.6 | 103.2 | 118.5 | 97.1 | 87.6 |
| Age 45 years and over, crude | 222.4 | 196.7 | 183.9 | 196.9 | 168.7 | 156.9 | 243.2 | 219.6 | 206.1 |
| 45–54 years | 19.6 | 16.2 | 14.5 | 20.8 | 17.1 | 15.5 | 18.5 | 15.2 | 13.6 |
| 55–64 years | 53.5 | 45.8 | 42.0 | 61.0 | 52.5 | 48.3 | 46.8 | 39.8 | 36.4 |
| 65–74 years | 190.3 | 152.9 | 136.9 | 225.5 | 176.6 | 158.8 | 163.3 | 134.5 | 119.7 |
| 75–84 years | 714.1 | 564.6 | 507.5 | 783.3 | 622.2 | 560.0 | 673.7 | 530.8 | 476.3 |
| 85 years and over | 2,164.9 | 1,830.3 | 1,697.2 | 2,081.7 | 1,711.2 | 1,602.7 | 2,199.8 | 1,876.6 | 1,733.3 |
| Black | | | | | | | | | |
| Age 45 years and over, age adjusted ¹ . . . | 222.6 | 185.8 | 174.0 | 251.7 | 210.7 | 200.1 | 200.9 | 167.4 | 154.7 |
| Age 45 years and over, crude | 285.9 | 249.2 | 237.1 | 296.6 | 252.4 | 239.9 | 277.8 | 246.9 | 235.0 |
| 45–54 years | 68.7 | 58.2 | 55.1 | 80.2 | 69.4 | 67.7 | 59.3 | 49.0 | 44.7 |
| 55–64 years | 154.5 | 132.0 | 123.9 | 181.8 | 156.9 | 150.6 | 132.6 | 112.4 | 103.1 |
| 65–74 years | 380.0 | 311.0 | 288.8 | 442.6 | 362.4 | 339.0 | 334.8 | 275.0 | 253.9 |
| 75–84 years | 900.7 | 736.4 | 681.3 | 972.0 | 801.3 | 746.9 | 856.1 | 698.3 | 644.1 |
| 85 years and over | 1,758.8 | 1,546.0 | 1,503.8 | 1,731.2 | 1,434.4 | 1,420.2 | 1,772.4 | 1,596.8 | 1,539.9 |
| Asian or Pacific Islander ² | | | | | | | | | |
| Age 45 years and over, age adjusted ¹ . . . | 94.2 | 91.0 | 88.3 | 107.5 | 104.4 | 96.5 | 81.9 | 79.5 | 81.4 |
| Age 45 years and over, crude | 108.4 | 103.8 | 101.6 | 120.3 | 115.6 | 107.3 | 98.1 | 93.6 | 96.8 |
| 45–54 years | 19.3 | 17.6 | 18.8 | 20.1 | 15.7 | 17.6 | 18.7 | 19.3 | 20.0 |
| 55–64 years | 46.4 | 47.4 | 46.3 | 55.9 | 56.5 | 51.0 | 38.3 | 40.3 | 42.6 |
| 65–74 years | 148.6 | 143.3 | 131.9 | 177.4 | 170.4 | 152.9 | 121.0 | 120.8 | 115.0 |
| 75–84 years | 471.8 | 455.0 | 432.0 | 555.1 | 561.9 | 490.7 | 396.5 | 357.3 | 379.9 |
| 85 years and over | 1,355.8 | 1,290.8 | 1,351.2 | 1,307.0 | 1,251.3 | 1,326.1 | 1,385.6 | 1,318.4 | 1,369.1 |
| American Indian or Alaskan Native ³ | | | | | | | | | |
| Age 45 years and over, age adjusted ¹ . . . | 88.3 | 75.4 | 69.9 | 104.1 | 84.2 | 79.5 | 75.5 | 67.7 | 62.9 |
| Age 45 years and over, crude | 108.4 | 91.0 | 85.2 | 116.2 | 91.6 | 86.5 | 101.5 | 90.6 | 84.1 |
| 45–54 years | 19.4 | 17.8 | 14.3 | 20.4 | 21.9 | 14.5 | 18.4 | 13.9 | 14.1 |
| 55–64 years | 52.5 | 44.7 | 44.1 | 67.3 | 53.7 | 44.8 | 39.0 | 36.5 | 43.5 |
| 65–74 years | 136.2 | 139.4 | 112.5 | 164.8 | 161.3 | 140.1 | 113.1 | 121.9 | 90.6 |
| 75–84 years | 422.1 | 310.1 | 326.9 | 516.7 | 322.2 | 383.9 | 352.8 | 302.1 | 289.8 |
| 85 years and over | 1,137.9 | 826.0 | 832.4 | 1,088.3 | 786.0 | 886.0 | 1,169.0 | 850.3 | 802.2 |
| Hispanic ⁴ | | | | | | | | | |
| Age 45 years and over, age adjusted ¹ . . . | --- | 80.8 | 75.6 | --- | 91.5 | 83.8 | --- | 72.3 | 69.1 |
| Age 45 years and over, crude | --- | 93.3 | 92.3 | --- | 94.9 | 90.5 | --- | 91.9 | 93.9 |
| 45–54 years | --- | 18.8 | 18.5 | --- | 21.9 | 20.3 | --- | 15.9 | 16.8 |
| 55–64 years | --- | 47.4 | 44.5 | --- | 57.3 | 51.5 | --- | 38.7 | 38.3 |
| 65–74 years | --- | 127.5 | 116.9 | --- | 148.6 | 134.1 | --- | 111.5 | 103.4 |
| 75–84 years | --- | 376.8 | 349.3 | --- | 417.3 | 392.0 | --- | 349.6 | 322.0 |
| 85 years and over | --- | 1,020.8 | 971.6 | --- | 1,013.5 | 916.7 | --- | 1,025.0 | 1,002.6 |

See footnotes at end of table.

Table 31 (page 4 of 7). Death rates for selected causes of death, according to detailed race, Hispanic origin, age, and sex: United States, 1980–82, 1985–87, and 1988–90

[Data are based on the National Vital Statistics System]

| Cause of death, race, and age | Both sexes | | | Male | | | Female | | |
|--|------------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1980–82 | 1985–87 | 1988–90 | 1980–82 | 1985–87 | 1988–90 | 1980–82 | 1985–87 | 1988–90 |
| Malignant neoplasms | | | | | | | | | |
| All races | | | | | | | | | |
| Deaths per 100,000 resident population | | | | | | | | | |
| Age 45 years and over, age adjusted ¹ . . . | 455.3 | 465.0 | 467.3 | 577.6 | 584.5 | 585.6 | 367.4 | 379.5 | 382.4 |
| Age 45 years and over, crude | 568.0 | 603.8 | 614.9 | 688.1 | 724.1 | 732.3 | 470.2 | 506.1 | 519.4 |
| 45–54 years | 178.0 | 167.5 | 159.6 | 186.6 | 172.3 | 164.3 | 169.9 | 162.9 | 155.1 |
| 55–64 years | 437.2 | 452.1 | 452.2 | 520.4 | 534.8 | 534.9 | 364.2 | 379.0 | 378.5 |
| 65–74 years | 818.1 | 852.5 | 864.5 | 1,090.0 | 1,110.4 | 1,113.5 | 610.0 | 653.0 | 670.5 |
| 75–84 years | 1,231.4 | 1,279.3 | 1,322.6 | 1,781.9 | 1,847.0 | 1,882.7 | 907.2 | 944.7 | 988.7 |
| 85 years and over | 1,584.2 | 1,630.4 | 1,705.5 | 2,381.3 | 2,477.7 | 2,637.5 | 1,245.3 | 1,294.2 | 1,343.5 |
| White | | | | | | | | | |
| Age 45 years and over, age adjusted ¹ . . . | 445.1 | 454.4 | 456.4 | 559.5 | 565.1 | 565.1 | 363.7 | 375.9 | 378.9 |
| Age 45 years and over, crude | 563.5 | 600.7 | 612.4 | 674.1 | 710.9 | 719.2 | 473.0 | 510.7 | 524.7 |
| 45–54 years | 169.3 | 159.0 | 151.2 | 173.4 | 159.8 | 151.5 | 165.4 | 158.2 | 151.0 |
| 55–64 years | 423.3 | 439.0 | 439.2 | 496.5 | 511.7 | 511.6 | 358.3 | 373.8 | 373.6 |
| 65–74 years | 807.7 | 840.4 | 850.6 | 1,066.1 | 1,081.3 | 1,082.2 | 609.2 | 652.6 | 668.3 |
| 75–84 years | 1,226.0 | 1,270.0 | 1,312.2 | 1,770.1 | 1,823.1 | 1,853.5 | 908.6 | 945.8 | 990.0 |
| 85 years and over | 1,592.4 | 1,625.2 | 1,696.3 | 2,390.7 | 2,467.5 | 2,618.8 | 1,258.2 | 1,297.1 | 1,344.0 |
| Black | | | | | | | | | |
| Age 45 years and over, age adjusted ¹ . . . | 589.0 | 610.9 | 621.1 | 812.6 | 847.0 | 866.8 | 426.5 | 445.8 | 452.4 |
| Age 45 years and over, crude | 667.8 | 711.6 | 730.5 | 902.8 | 957.5 | 981.9 | 488.8 | 528.0 | 544.7 |
| 45–54 years | 269.7 | 258.4 | 250.7 | 329.5 | 307.3 | 305.0 | 220.9 | 218.1 | 205.7 |
| 55–64 years | 616.7 | 631.3 | 631.6 | 820.5 | 837.4 | 839.6 | 453.1 | 469.0 | 469.8 |
| 65–74 years | 987.5 | 1,063.2 | 1,105.5 | 1,441.5 | 1,557.0 | 1,599.4 | 659.9 | 717.2 | 762.0 |
| 75–84 years | 1,366.0 | 1,465.6 | 1,534.8 | 2,050.8 | 2,272.9 | 2,418.1 | 938.3 | 990.9 | 1,034.7 |
| 85 years and over | 1,544.7 | 1,762.1 | 1,890.5 | 2,403.8 | 2,758.4 | 3,050.3 | 1,121.1 | 1,308.3 | 1,389.6 |
| Asian or Pacific Islander ² | | | | | | | | | |
| Age 45 years and over, age adjusted ¹ . . . | 256.4 | 266.6 | 271.9 | 326.6 | 338.5 | 340.3 | 194.3 | 206.2 | 216.0 |
| Age 45 years and over, crude | 270.7 | 281.9 | 287.4 | 347.3 | 354.7 | 353.8 | 204.1 | 219.1 | 230.4 |
| 45–54 years | 104.6 | 93.0 | 93.8 | 107.3 | 96.0 | 92.9 | 102.4 | 90.3 | 94.7 |
| 55–64 years | 226.2 | 237.9 | 239.3 | 289.1 | 289.7 | 290.9 | 172.7 | 197.0 | 198.7 |
| 65–74 years | 429.7 | 460.3 | 476.9 | 573.4 | 616.9 | 642.3 | 292.3 | 330.2 | 343.2 |
| 75–84 years | 797.7 | 878.7 | 891.3 | 1,085.6 | 1,217.1 | 1,180.5 | 537.3 | 569.9 | 634.2 |
| 85 years and over | 1,180.0 | 1,272.7 | 1,340.2 | 1,681.3 | 1,715.1 | 1,763.2 | 873.7 | 964.4 | 1,039.3 |
| American Indian or Alaskan Native ³ | | | | | | | | | |
| Age 45 years and over, age adjusted ¹ . . . | 234.1 | 240.2 | 265.0 | 280.7 | 281.0 | 311.5 | 197.0 | 210.6 | 230.6 |
| Age 45 years and over, crude | 252.3 | 261.3 | 285.5 | 292.9 | 293.1 | 320.2 | 216.8 | 233.7 | 255.5 |
| 45–54 years | 90.1 | 89.0 | 91.8 | 90.8 | 85.7 | 86.0 | 89.4 | 92.0 | 97.1 |
| 55–64 years | 213.9 | 216.6 | 243.5 | 243.1 | 228.7 | 276.5 | 187.3 | 205.6 | 213.9 |
| 65–74 years | 433.7 | 446.6 | 505.2 | 553.4 | 539.7 | 604.9 | 336.9 | 372.3 | 425.7 |
| 75–84 years | 652.5 | 691.1 | 745.6 | 854.1 | 972.4 | 995.6 | 504.7 | 505.3 | 582.9 |
| 85 years and over | 845.4 | 933.3 | 1,048.7 | 1,102.1 | 1,266.4 | 1,517.5 | 684.1 | 730.7 | 785.0 |
| Hispanic ⁴ | | | | | | | | | |
| Age 45 years and over, age adjusted ¹ . . . | --- | 258.0 | 278.3 | --- | 318.1 | 345.4 | --- | 214.6 | 229.4 |
| Age 45 years and over, crude | --- | 273.0 | 304.8 | --- | 317.1 | 356.5 | --- | 235.3 | 260.4 |
| 45–54 years | --- | 84.8 | 92.3 | --- | 81.4 | 90.8 | --- | 88.1 | 93.7 |
| 55–64 years | --- | 227.2 | 247.0 | --- | 255.4 | 291.5 | --- | 202.4 | 207.9 |
| 65–74 years | --- | 472.2 | 505.5 | --- | 624.3 | 644.2 | --- | 357.4 | 397.7 |
| 75–84 years | --- | 831.5 | 887.0 | --- | 1,143.0 | 1,243.6 | --- | 622.5 | 658.7 |
| 85 years and over | --- | 1,191.6 | 1,326.2 | --- | 1,695.2 | 1,902.6 | --- | 900.8 | 1,001.2 |

See footnotes at end of table.

Table 31 (page 5 of 7). Death rates for selected causes of death, according to detailed race, Hispanic origin, age, and sex: United States, 1980–82, 1985–87, and 1988–90

[Data are based on the National Vital Statistics System]

| Cause of death, race, and age | Both sexes | | | Male | | | Female | | |
|--|------------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1980–82 | 1985–87 | 1988–90 | 1980–82 | 1985–87 | 1988–90 | 1980–82 | 1985–87 | 1988–90 |
| Motor vehicle crashes | | | | | | | | | |
| All races | | | | | | | | | |
| All ages, age adjusted ¹ | 21.3 | 19.2 | 19.0 | 31.9 | 27.9 | 27.1 | 11.1 | 10.7 | 11.1 |
| All ages, crude | 21.8 | 19.7 | 19.4 | 32.8 | 28.7 | 27.5 | 11.5 | 11.3 | 11.6 |
| 1–14 years | 7.6 | 7.0 | 6.5 | 9.3 | 8.6 | 7.7 | 5.9 | 5.3 | 5.3 |
| 15–24 years | 40.9 | 37.1 | 35.5 | 62.2 | 54.6 | 51.4 | 19.3 | 19.0 | 19.0 |
| 25–44 years | 24.0 | 20.9 | 20.8 | 37.6 | 31.9 | 31.0 | 10.7 | 10.1 | 10.7 |
| 45–64 years | 17.0 | 15.4 | 15.9 | 25.0 | 21.9 | 22.2 | 9.7 | 9.5 | 10.0 |
| 65 years and over | 21.8 | 22.2 | 23.5 | 32.6 | 31.5 | 32.8 | 14.5 | 16.0 | 17.2 |
| White | | | | | | | | | |
| All ages, age adjusted ¹ | 21.9 | 19.6 | 19.2 | 32.4 | 28.2 | 27.2 | 11.5 | 11.1 | 11.4 |
| All ages, crude | 22.5 | 20.1 | 19.6 | 33.5 | 28.9 | 27.6 | 12.0 | 11.7 | 12.0 |
| 1–14 years | 7.5 | 6.9 | 6.4 | 9.2 | 8.4 | 7.5 | 5.8 | 5.3 | 5.2 |
| 15–24 years | 44.7 | 40.1 | 38.1 | 67.4 | 58.6 | 54.6 | 21.2 | 21.0 | 20.8 |
| 25–44 years | 24.2 | 20.8 | 20.6 | 37.6 | 31.4 | 30.4 | 10.9 | 10.1 | 10.7 |
| 45–64 years | 16.5 | 14.9 | 15.3 | 23.8 | 20.7 | 21.0 | 9.8 | 9.5 | 10.0 |
| 65 years and over | 21.7 | 22.3 | 23.5 | 31.8 | 31.0 | 32.2 | 14.9 | 16.4 | 17.6 |
| Black | | | | | | | | | |
| All ages, age adjusted ¹ | 18.1 | 17.9 | 18.7 | 30.2 | 28.8 | 29.5 | 7.8 | 8.5 | 9.3 |
| All ages, crude | 17.7 | 17.8 | 18.6 | 28.6 | 28.1 | 28.7 | 7.9 | 8.6 | 9.4 |
| 1–14 years | 8.2 | 7.6 | 7.4 | 10.0 | 9.8 | 9.2 | 6.3 | 5.4 | 5.6 |
| 15–24 years | 19.6 | 21.7 | 23.4 | 31.8 | 34.4 | 36.8 | 7.8 | 9.3 | 10.3 |
| 25–44 years | 23.1 | 22.7 | 23.2 | 39.9 | 37.6 | 37.4 | 8.6 | 9.8 | 10.8 |
| 45–64 years | 21.0 | 19.8 | 20.6 | 36.4 | 32.8 | 34.0 | 8.5 | 9.4 | 9.9 |
| 65 years and over | 21.9 | 20.8 | 22.8 | 40.1 | 36.3 | 39.3 | 9.6 | 10.8 | 12.3 |
| Asian or Pacific Islander ² | | | | | | | | | |
| All ages, age adjusted ¹ | 11.0 | 11.8 | 11.7 | 14.3 | 15.6 | 14.7 | 7.9 | 8.1 | 8.7 |
| All ages, crude | 10.9 | 11.6 | 11.5 | 14.2 | 15.4 | 14.6 | 7.8 | 7.9 | 8.6 |
| 1–14 years | 5.5 | 5.2 | 4.9 | 6.2 | 6.2 | 5.2 | 4.8 | 4.3 | 4.6 |
| 15–24 years | 14.1 | 17.6 | 17.8 | 20.3 | 25.7 | 24.1 | 7.6 | 8.8 | 11.1 |
| 25–44 years | 11.1 | 10.8 | 10.4 | 14.2 | 15.2 | 14.0 | 8.3 | 6.9 | 7.2 |
| 45–64 years | 10.6 | 11.5 | 11.9 | 12.8 | 13.7 | 14.2 | 8.8 | 9.6 | 9.9 |
| 65 years and over | 24.3 | 26.5 | 25.9 | 33.8 | 32.5 | 30.6 | 15.6 | 21.4 | 22.1 |
| American Indian or Alaskan Native ³ | | | | | | | | | |
| All ages, age adjusted ¹ | 47.7 | 37.8 | 34.5 | 68.5 | 55.0 | 50.4 | 28.0 | 21.2 | 19.3 |
| All ages, crude | 46.6 | 37.5 | 33.8 | 65.8 | 54.2 | 49.0 | 27.9 | 21.1 | 18.9 |
| 1–14 years | 11.9 | 11.9 | 10.5 | 13.0 | 14.9 | 11.2 | 10.8 | 8.8 | 9.8 |
| 15–24 years | 76.3 | 58.4 | 56.4 | 107.7 | 86.0 | 80.4 | 44.0 | 29.2 | 30.8 |
| 25–44 years | 60.7 | 50.7 | 44.6 | 86.4 | 74.3 | 67.9 | 36.1 | 28.2 | 22.1 |
| 45–64 years | 48.9 | 34.9 | 31.5 | 74.0 | 51.3 | 45.3 | 25.8 | 19.8 | 18.8 |
| 65 years and over | 46.2 | 31.3 | 31.6 | 77.2 | 47.5 | 55.9 | 22.3 | 19.3 | 13.8 |
| Hispanic ⁴ | | | | | | | | | |
| All ages, age adjusted ¹ | --- | 16.8 | 19.7 | --- | 25.9 | 29.6 | --- | 7.5 | 9.3 |
| All ages, crude | --- | 16.8 | 19.5 | --- | 26.0 | 29.6 | --- | 7.4 | 9.0 |
| 1–14 years | --- | 5.8 | 6.4 | --- | 6.9 | 7.7 | --- | 4.5 | 5.0 |
| 15–24 years | --- | 28.4 | 32.0 | --- | 44.9 | 48.8 | --- | 9.8 | 12.5 |
| 25–44 years | --- | 19.3 | 23.0 | --- | 30.6 | 36.0 | --- | 7.3 | 9.0 |
| 45–64 years | --- | 16.1 | 19.1 | --- | 25.1 | 28.5 | --- | 8.0 | 10.4 |
| 65 years and over | --- | 20.3 | 25.0 | --- | 30.9 | 39.2 | --- | 12.6 | 14.9 |

See footnotes at end of table.

Table 31 (page 6 of 7). Death rates for selected causes of death, according to detailed race, Hispanic origin, age, and sex: United States, 1980–82, 1985–87, and 1988–90

[Data are based on the National Vital Statistics System]

| Cause of death, race, and age | Both sexes | | | Male | | | Female | | |
|--|------------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1980–82 | 1985–87 | 1988–90 | 1980–82 | 1985–87 | 1988–90 | 1980–82 | 1985–87 | 1988–90 |
| Suicide | | | | | | | | | |
| All races | | | | | | | | | |
| 15–24 years | 12.2 | 12.8 | 13.0 | 19.9 | 21.0 | 21.6 | 4.4 | 4.3 | 4.1 |
| 25–44 years | 15.8 | 15.3 | 15.1 | 24.1 | 24.1 | 24.1 | 7.7 | 6.6 | 6.2 |
| 45–64 years | 16.3 | 16.5 | 15.3 | 24.2 | 25.5 | 23.8 | 9.2 | 8.3 | 7.4 |
| 65 years and over | 17.7 | 21.3 | 20.6 | 35.0 | 42.9 | 41.9 | 6.1 | 6.8 | 6.3 |
| White | | | | | | | | | |
| 15–24 years | 13.1 | 13.8 | 13.8 | 21.2 | 22.6 | 22.8 | 4.7 | 4.6 | 4.4 |
| 25–44 years | 16.6 | 16.2 | 15.9 | 25.0 | 25.2 | 25.2 | 8.3 | 7.1 | 6.6 |
| 45–64 years | 17.5 | 17.8 | 16.5 | 25.7 | 27.3 | 25.6 | 10.0 | 9.0 | 8.0 |
| 65 years and over | 18.8 | 22.6 | 22.0 | 37.3 | 45.5 | 44.7 | 6.5 | 7.2 | 6.7 |
| Black | | | | | | | | | |
| 15–24 years | 6.9 | 7.3 | 8.9 | 11.6 | 12.5 | 15.4 | 2.3 | 2.3 | 2.6 |
| 25–44 years | 11.0 | 10.7 | 11.3 | 19.0 | 19.2 | 19.9 | 4.2 | 3.4 | 3.8 |
| 45–64 years | 6.8 | 7.1 | 7.1 | 12.0 | 12.3 | 12.0 | 2.7 | 2.9 | 3.0 |
| 65 years and over | 5.9 | 8.3 | 7.1 | 12.0 | 17.4 | 15.6 | 1.8 | 2.5 | 1.8 |
| Asian or Pacific Islander ² | | | | | | | | | |
| 15–24 years | 7.6 | 8.5 | 7.5 | 10.5 | 12.1 | 11.3 | 4.7 | 4.5 | 3.5 |
| 25–44 years | 8.1 | 6.5 | 6.8 | 10.5 | 8.9 | 9.8 | 6.0 | 4.3 | 4.2 |
| 45–64 years | 8.8 | 8.0 | 6.8 | 10.1 | 10.4 | 9.4 | 7.7 | 5.9 | 4.5 |
| 65 years and over | 13.7 | 15.9 | 13.0 | 18.5 | 22.5 | 17.0 | 9.4 | 10.4 | 9.8 |
| American Indian or Alaskan Native ³ | | | | | | | | | |
| 15–24 years | 25.0 | 22.8 | 26.8 | 41.2 | 37.9 | 44.9 | 8.2 | 6.9 | 7.5 |
| 25–44 years | 19.8 | 18.8 | 16.9 | 32.7 | 32.2 | 28.7 | 7.4 | 6.0 | 5.4 |
| 45–64 years | 8.9 | 8.8 | 6.7 | 15.8 | 13.5 | 11.8 | *2.6 | *4.4 | *2.0 |
| 65 years and over | *5.0 | *6.1 | 7.4 | *10.6 | *11.1 | *12.6 | *0.7 | *2.3 | *3.6 |
| Hispanic ⁴ | | | | | | | | | |
| 15–24 years | --- | 8.7 | 9.4 | --- | 14.1 | 15.0 | --- | 2.5 | 2.9 |
| 25–44 years | --- | 8.6 | 9.8 | --- | 14.7 | 16.0 | --- | 2.2 | 3.2 |
| 45–64 years | --- | 7.5 | 9.1 | --- | 12.7 | 15.8 | --- | 2.8 | 2.9 |
| 65 years and over | --- | 9.2 | 11.8 | --- | 18.9 | 25.2 | --- | 2.2 | 2.2 |
| Homicide and legal intervention | | | | | | | | | |
| All races | | | | | | | | | |
| 15–24 years | 14.7 | 13.2 | 17.2 | 22.9 | 20.5 | 27.9 | 6.2 | 5.7 | 6.0 |
| 25–44 years | 16.7 | 13.6 | 14.3 | 27.5 | 21.4 | 22.6 | 6.1 | 5.9 | 6.0 |
| 45–64 years | 8.9 | 6.9 | 6.4 | 14.9 | 11.0 | 10.2 | 3.5 | 3.1 | 2.8 |
| White | | | | | | | | | |
| 15–24 years | 9.5 | 7.7 | 8.6 | 14.3 | 11.4 | 13.0 | 4.5 | 3.9 | 3.9 |
| 25–44 years | 10.2 | 8.4 | 8.3 | 16.4 | 12.8 | 12.6 | 4.1 | 4.1 | 3.9 |
| 45–64 years | 6.0 | 4.8 | 4.6 | 9.7 | 7.4 | 7.1 | 2.6 | 2.4 | 2.2 |
| Black | | | | | | | | | |
| 15–24 years | 47.2 | 46.0 | 67.6 | 78.7 | 76.7 | 117.9 | 16.9 | 16.1 | 17.9 |
| 25–44 years | 67.5 | 52.7 | 57.9 | 122.3 | 91.7 | 100.6 | 20.6 | 18.7 | 20.5 |
| 45–64 years | 36.1 | 24.9 | 22.4 | 67.4 | 45.4 | 40.8 | 10.8 | 8.4 | 7.5 |
| Asian or Pacific Islander ² | | | | | | | | | |
| 15–24 years | 6.7 | 6.1 | 7.4 | 9.5 | 8.8 | 12.3 | 3.7 | 3.2 | 2.3 |
| 25–44 years | 6.9 | 5.8 | 6.8 | 10.2 | 8.5 | 9.8 | 3.9 | 3.4 | 4.1 |
| 45–64 years | 6.1 | 5.0 | 4.8 | 9.8 | 7.3 | 7.3 | 3.0 | 3.0 | 2.6 |
| American Indian or Alaskan Native ³ | | | | | | | | | |
| 15–24 years | 20.7 | 19.4 | 19.0 | 31.6 | 29.1 | 27.7 | 9.5 | 9.2 | 9.8 |
| 25–44 years | 22.2 | 19.4 | 18.1 | 32.7 | 31.4 | 29.0 | 12.1 | 7.9 | 7.6 |
| 45–64 years | 15.8 | 11.0 | 8.4 | 24.2 | 17.7 | 12.5 | 8.1 | *4.7 | 4.5 |
| Hispanic ⁴ | | | | | | | | | |
| 15–24 years | --- | 25.2 | 27.5 | --- | 42.5 | 45.7 | --- | 5.6 | 6.2 |
| 25–44 years | --- | 26.1 | 24.4 | --- | 44.1 | 41.5 | --- | 7.2 | 6.0 |
| 45–64 years | --- | 11.1 | 11.2 | --- | 19.8 | 20.0 | --- | 3.1 | 3.1 |

See footnotes at end of table.

Table 31 (page 7 of 7). Death rates for selected causes of death, according to detailed race, Hispanic origin, age, and sex: United States, 1980–82, 1985–87, and 1988–90

[Data are based on the National Vital Statistics System]

| Cause of death, race, and age | Both sexes | | | Male | | | Female | | |
|---|------------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1980–82 | 1985–87 | 1988–90 | 1980–82 | 1985–87 | 1988–90 | 1980–82 | 1985–87 | 1988–90 |
| Human immunodeficiency virus infection | | | | | | | | | |
| All races | | | | | | | | | |
| 25–44 years | --- | --- | 19.8 | --- | --- | 35.6 | --- | --- | 4.2 |
| 45–64 years | --- | --- | 9.3 | --- | --- | 18.0 | --- | --- | 1.2 |
| White | | | | | | | | | |
| 25–44 years | --- | --- | 15.9 | --- | --- | 29.6 | --- | --- | 1.9 |
| 45–64 years | --- | --- | 7.9 | --- | --- | 15.6 | --- | --- | 0.7 |
| Black | | | | | | | | | |
| 25–44 years | --- | --- | 52.8 | --- | --- | 90.4 | --- | --- | 19.8 |
| 45–64 years | --- | --- | 23.1 | --- | --- | 44.6 | --- | --- | 5.7 |
| Asian or Pacific Islander | | | | | | | | | |
| 25–44 years | --- | --- | 3.8 | --- | --- | 7.3 | --- | --- | 0.6 |
| 45–64 years | --- | --- | 2.9 | --- | --- | 5.6 | --- | --- | *0.6 |
| American Indian or Alaskan Native | | | | | | | | | |
| 25–44 years | --- | --- | 4.0 | --- | --- | 7.2 | --- | --- | *0.8 |
| 45–64 years | --- | --- | *1.8 | --- | --- | *3.2 | --- | --- | *0.5 |
| Hispanic ⁴ | | | | | | | | | |
| 25–44 years | --- | --- | 28.7 | --- | --- | 48.9 | --- | --- | 6.9 |
| 45–64 years | --- | --- | 16.3 | --- | --- | 31.3 | --- | --- | 2.5 |

¹Age adjusted by the direct method based on 11 age groups for all ages and 5 age groups for 45 years and over. See Appendix II.

²Interpretation of trends should take into account that the Asian population in the United States more than doubled between 1980 and 1990, primarily due to immigration.

³Interpretation of trends should take into account that population estimates for American Indians increased by 45 percent between 1980 and 1990, partly due to better enumeration techniques in the 1990 decennial census and to the increased tendency for people to identify themselves as American Indian in 1990.

⁴Data shown only for States with an Hispanic-origin item on their death certificates. See Appendix I.

*Based on fewer than 20 deaths.

NOTES: The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaskan Native, include persons of both Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race. Consistency of race identification between the death certificate (source of data for numerator of death rates) and data from the Census Bureau (denominator) is high for individual white, black, and Hispanic persons; however, persons identified as American Indian or Asian in data from the Census Bureau are sometimes misreported as white on the death certificate, causing death rates to be underestimated by 22–30 percent for American Indians and by about 12 percent for Asians. (Sorlie, P.D., Rogot, E., and Johnson, N.J.: Validity of demographic characteristics on the death certificate, *Epidemiology* 3(2):181–184, 1992.)

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics; Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics and from intercensal national population estimates from table 1 and intercensal State population estimates for Hispanics provided by the Census Bureau.

Table 32 (page 1 of 2). Age-adjusted death rates, according to race, sex, region, and urbanization: United States, average annual 1980–82, 1984–86, and 1988–90

[Data are based on the National Vital Statistics System]

| Sex, region, and urbanization ¹ | All races | | | White | | | Black | | |
|--|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1980–82 | 1984–86 | 1988–90 | 1980–82 | 1984–86 | 1988–90 | 1980–82 | 1984–86 | 1988–90 |
| Both sexes | | | | | | | | | |
| All regions | | | | | | | | | |
| Deaths per 100,000 resident population | | | | | | | | | |
| Large core metropolitan | 599.5 | 577.7 | 568.7 | 561.1 | 539.7 | 522.8 | 827.0 | 809.6 | 838.5 |
| Large fringe metropolitan | 530.1 | 508.4 | 479.1 | 523.0 | 501.8 | 471.0 | 723.6 | 697.4 | 681.1 |
| Medium/small metropolitan | 563.2 | 539.3 | 517.2 | 541.5 | 517.8 | 493.5 | 812.9 | 790.4 | 785.1 |
| Urban nonmetropolitan | 570.7 | 549.1 | 532.5 | 551.3 | 529.9 | 512.1 | 806.8 | 792.6 | 792.5 |
| Rural | 571.9 | 549.8 | 537.0 | 550.6 | 529.3 | 513.5 | 768.1 | 751.8 | 765.1 |
| Northeast | | | | | | | | | |
| Large core metropolitan | 620.4 | 608.1 | 608.8 | 578.1 | 564.6 | 554.2 | 810.3 | 803.4 | 836.4 |
| Large fringe metropolitan | 538.6 | 515.1 | 483.2 | 531.8 | 508.5 | 475.5 | 713.1 | 690.7 | 664.2 |
| Medium/small metropolitan | 550.0 | 527.0 | 499.4 | 542.1 | 517.7 | 488.2 | 761.6 | 764.3 | 751.7 |
| Urban nonmetropolitan | 552.4 | 538.1 | 506.4 | 551.8 | 537.6 | 505.8 | 715.6 | 733.7 | 667.0 |
| Rural | 548.1 | 538.6 | 503.4 | 548.5 | 540.0 | 503.1 | * | * | * |
| South | | | | | | | | | |
| Large core metropolitan | 609.1 | 583.3 | 582.3 | 546.2 | 521.7 | 507.3 | 861.4 | 832.3 | 870.7 |
| Large fringe metropolitan | 534.1 | 512.5 | 488.1 | 520.5 | 500.1 | 472.5 | 714.8 | 682.6 | 681.3 |
| Medium/small metropolitan | 590.5 | 563.2 | 543.8 | 549.8 | 524.0 | 502.0 | 828.6 | 803.7 | 798.9 |
| Urban nonmetropolitan | 612.8 | 591.7 | 579.1 | 577.6 | 556.5 | 542.1 | 812.4 | 800.6 | 802.8 |
| Rural | 608.0 | 592.0 | 583.0 | 578.3 | 562.4 | 550.9 | 768.6 | 754.6 | 765.7 |
| Midwest | | | | | | | | | |
| Large core metropolitan | 626.7 | 600.9 | 588.4 | 572.8 | 544.9 | 520.2 | 845.2 | 824.4 | 843.8 |
| Large fringe metropolitan | 538.7 | 518.3 | 484.3 | 529.6 | 509.3 | 474.0 | 767.4 | 752.3 | 726.4 |
| Medium/small metropolitan | 544.2 | 522.8 | 497.1 | 531.7 | 510.3 | 482.4 | 777.8 | 753.6 | 750.4 |
| Urban nonmetropolitan | 527.8 | 504.8 | 488.6 | 525.0 | 502.3 | 485.4 | 754.0 | 715.6 | 714.9 |
| Rural | 534.1 | 507.2 | 493.1 | 522.9 | 497.9 | 481.0 | 742.6 | 689.8 | 792.5 |
| West | | | | | | | | | |
| Large core metropolitan | 548.8 | 528.5 | 513.9 | 543.6 | 524.6 | 509.4 | 763.9 | 756.1 | 779.4 |
| Large fringe metropolitan | 488.7 | 470.4 | 449.3 | 493.1 | 475.1 | 453.8 | 688.7 | 658.7 | 651.4 |
| Medium/small metropolitan | 525.4 | 505.3 | 488.7 | 528.2 | 507.5 | 490.7 | 731.0 | 707.7 | 717.9 |
| Urban nonmetropolitan | 544.1 | 516.2 | 498.9 | 536.6 | 509.5 | 491.9 | 760.5 | 689.5 | 639.7 |
| Rural | 541.4 | 497.5 | 478.5 | 536.7 | 496.3 | 473.3 | * | *448.0 | *929.3 |
| Male | | | | | | | | | |
| All regions | | | | | | | | | |
| Large core metropolitan | 794.6 | 762.3 | 750.2 | 746.3 | 712.6 | 688.5 | 1,104.4 | 1,091.3 | 1,146.2 |
| Large fringe metropolitan | 691.2 | 657.9 | 613.3 | 683.2 | 650.1 | 603.0 | 928.0 | 901.4 | 885.2 |
| Medium/small metropolitan | 748.4 | 710.9 | 674.4 | 722.7 | 685.2 | 644.6 | 1,071.0 | 1,037.9 | 1,039.0 |
| Urban nonmetropolitan | 763.6 | 727.8 | 699.0 | 740.4 | 704.9 | 673.5 | 1,074.0 | 1,046.3 | 1,056.8 |
| Rural | 764.5 | 729.5 | 708.2 | 738.5 | 704.3 | 678.3 | 1,017.1 | 995.3 | 1,019.4 |
| Northeast | | | | | | | | | |
| Large core metropolitan | 828.1 | 811.5 | 816.9 | 772.8 | 752.9 | 740.0 | 1,099.9 | 1,103.3 | 1,173.0 |
| Large fringe metropolitan | 701.6 | 666.2 | 619.4 | 693.4 | 657.9 | 609.6 | 930.8 | 904.9 | 873.6 |
| Medium/small metropolitan | 731.7 | 696.0 | 652.2 | 721.9 | 684.3 | 638.0 | 1,003.1 | 1,007.5 | 989.6 |
| Urban nonmetropolitan | 730.7 | 704.9 | 659.1 | 730.6 | 704.9 | 658.8 | 857.7 | 885.9 | 835.4 |
| Rural | 715.7 | 706.8 | 656.1 | 715.8 | 709.5 | 656.6 | * | * | * |
| South | | | | | | | | | |
| Large core metropolitan | 812.5 | 773.7 | 778.0 | 732.0 | 692.9 | 677.1 | 1,152.7 | 1,121.6 | 1,196.7 |
| Large fringe metropolitan | 701.7 | 667.9 | 631.4 | 686.5 | 653.3 | 611.4 | 912.8 | 882.4 | 887.7 |
| Medium/small metropolitan | 790.4 | 746.5 | 714.1 | 740.9 | 698.6 | 659.8 | 1,101.0 | 1,063.0 | 1,068.8 |
| Urban nonmetropolitan | 831.5 | 795.7 | 771.7 | 789.8 | 753.8 | 724.5 | 1,091.8 | 1,068.4 | 1,085.4 |
| Rural | 822.1 | 793.0 | 778.3 | 787.7 | 757.7 | 738.2 | 1,019.4 | 1,002.1 | 1,025.5 |

See footnotes at end of table.

Table 32 (page 2 of 2). Age-adjusted death rates, according to race, sex, region, and urbanization: United States, average annual 1980–82, 1984–86, and 1988–90

[Data are based on the National Vital Statistics System]

| Sex, region, and urbanization ¹ | All races | | | White | | | Black | | |
|--|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1980–82 | 1984–86 | 1988–90 | 1980–82 | 1984–86 | 1988–90 | 1980–82 | 1984–86 | 1988–90 |
| Male—Con. | | | | | | | | | |
| Midwest | | | | | | | | | |
| Deaths per 100,000 resident population | | | | | | | | | |
| Large core metropolitan | 837.6 | 798.3 | 777.3 | 770.4 | 725.7 | 686.3 | 1,124.3 | 1,107.1 | 1,145.3 |
| Large fringe metropolitan | 705.2 | 673.4 | 619.7 | 694.7 | 663.0 | 606.9 | 984.7 | 960.9 | 938.0 |
| Medium/small metropolitan | 723.6 | 690.8 | 648.0 | 709.5 | 676.1 | 630.2 | 995.7 | 975.8 | 971.5 |
| Urban nonmetropolitan | 704.4 | 667.9 | 640.9 | 701.6 | 665.6 | 637.7 | 924.5 | 871.4 | 879.2 |
| Rural | 708.9 | 671.1 | 646.7 | 695.3 | 659.4 | 631.2 | 930.0 | 882.6 | 998.6 |
| West | | | | | | | | | |
| Large core metropolitan | 716.4 | 685.7 | 663.5 | 711.7 | 681.3 | 658.3 | 994.6 | 992.1 | 1,016.4 |
| Large fringe metropolitan | 629.2 | 600.5 | 565.8 | 636.4 | 607.2 | 571.9 | 824.6 | 831.5 | 803.3 |
| Medium/small metropolitan | 683.1 | 652.8 | 624.1 | 689.1 | 658.1 | 629.2 | 923.1 | 864.5 | 873.0 |
| Urban nonmetropolitan | 705.8 | 662.2 | 630.2 | 697.5 | 654.1 | 622.5 | 932.8 | 820.3 | 718.7 |
| Rural | 704.2 | 637.7 | 605.7 | 699.0 | 637.2 | 599.4 | * | * | *767.6 |
| Female | | | | | | | | | |
| All regions | | | | | | | | | |
| Large core metropolitan | 448.0 | 433.2 | 422.3 | 418.2 | 404.3 | 388.7 | 616.3 | 598.3 | 606.8 |
| Large fringe metropolitan | 403.7 | 391.2 | 372.4 | 397.5 | 385.6 | 366.2 | 559.1 | 536.6 | 521.1 |
| Medium/small metropolitan | 417.0 | 404.3 | 392.0 | 399.0 | 386.3 | 373.2 | 611.9 | 601.1 | 591.5 |
| Urban nonmetropolitan | 410.8 | 402.5 | 395.3 | 394.5 | 386.1 | 378.9 | 596.3 | 596.6 | 590.4 |
| Rural | 401.3 | 393.1 | 387.7 | 383.6 | 376.2 | 369.2 | 558.1 | 551.2 | 558.6 |
| Northeast | | | | | | | | | |
| Large core metropolitan | 465.0 | 454.1 | 446.6 | 432.0 | 421.3 | 408.0 | 604.6 | 591.6 | 595.9 |
| Large fringe metropolitan | 413.3 | 399.1 | 376.6 | 407.6 | 393.9 | 370.7 | 548.4 | 528.5 | 506.2 |
| Medium/small metropolitan | 411.6 | 398.7 | 381.8 | 405.5 | 391.7 | 373.4 | 569.7 | 571.9 | 562.3 |
| Urban nonmetropolitan | 410.8 | 405.2 | 384.2 | 410.1 | 404.5 | 383.7 | 582.6 | 592.8 | 515.1 |
| Rural | 405.7 | 394.3 | 372.2 | 406.4 | 394.7 | 371.4 | * | * | * |
| South | | | | | | | | | |
| Large core metropolitan | 447.4 | 431.7 | 423.5 | 398.0 | 384.5 | 368.2 | 638.5 | 614.1 | 624.4 |
| Large fringe metropolitan | 399.3 | 387.6 | 371.8 | 387.1 | 376.9 | 359.7 | 552.5 | 523.8 | 520.2 |
| Medium/small metropolitan | 432.1 | 418.5 | 407.7 | 397.9 | 385.4 | 374.8 | 620.8 | 609.8 | 597.7 |
| Urban nonmetropolitan | 433.5 | 426.6 | 422.9 | 402.4 | 395.2 | 392.5 | 596.3 | 598.2 | 592.4 |
| Rural | 422.6 | 421.0 | 416.7 | 396.2 | 395.7 | 390.1 | 558.0 | 552.1 | 557.2 |
| Midwest | | | | | | | | | |
| Large core metropolitan | 466.8 | 451.7 | 443.2 | 425.9 | 410.7 | 394.4 | 628.5 | 609.8 | 617.7 |
| Large fringe metropolitan | 407.8 | 398.1 | 378.8 | 400.3 | 390.6 | 370.8 | 588.3 | 585.3 | 557.0 |
| Medium/small metropolitan | 406.7 | 394.6 | 380.8 | 395.8 | 384.1 | 368.8 | 602.3 | 579.0 | 578.6 |
| Urban nonmetropolitan | 383.3 | 373.2 | 365.3 | 380.6 | 370.7 | 362.4 | 603.1 | 577.6 | 569.8 |
| Rural | 377.4 | 363.0 | 358.2 | 368.8 | 356.1 | 349.6 | 596.6 | 507.3 | 629.2 |
| West | | | | | | | | | |
| Large core metropolitan | 414.2 | 399.4 | 386.2 | 409.5 | 396.0 | 381.8 | 575.0 | 563.7 | 581.5 |
| Large fringe metropolitan | 378.1 | 365.9 | 353.7 | 380.6 | 369.4 | 357.0 | 565.6 | 506.5 | 513.5 |
| Medium/small metropolitan | 391.0 | 379.9 | 372.7 | 392.9 | 380.8 | 373.0 | 541.1 | 555.4 | 568.6 |
| Urban nonmetropolitan | 397.0 | 384.6 | 379.1 | 391.5 | 380.0 | 373.9 | 576.3 | 551.9 | 568.3 |
| Rural | 383.1 | 362.0 | 355.6 | 379.2 | 360.6 | 352.3 | * | * | * |

¹Urbanization categories for county of residence of decedent are based on classification of counties by the Department of Agriculture. See Appendix II.

*Data for groups with population under 4,000 in the middle year of a 3-year period are considered unreliable. Data for groups with population under 2,000 are considered highly unreliable and are not shown.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics: Data computed by the Division of Analysis using the Compressed Mortality File. See Appendix I, National Vital Statistics System.

Table 33. Death rates for persons 25–64 years of age, for all races and the white population, according to sex, age, and educational attainment: Selected States, 1989–90

[Data are based on the National Vital Statistics System]

| Age, race, and educational attainment | Both sexes | | | Male | | | Female | | |
|--|------------|-------|---------|---------|---------|---------|--------|-------|---------|
| | 1989 | 1990 | 1989–90 | 1989 | 1990 | 1989–90 | 1989 | 1990 | 1989–90 |
| All races | | | | | | | | | |
| 25–64 years¹ | | | | | | | | | |
| Deaths per 100,000 resident population | | | | | | | | | |
| 0–8 years | 474.6 | 471.0 | 472.5 | 617.8 | 613.7 | 615.3 | 314.1 | 312.2 | 312.9 |
| 9–11 years | 502.4 | 519.5 | 512.8 | 728.6 | 747.1 | 739.8 | 308.1 | 325.0 | 318.3 |
| 12 years | 417.9 | 434.3 | 427.7 | 583.3 | 614.5 | 602.1 | 288.9 | 294.7 | 292.5 |
| 13–15 years. | 395.3 | 383.3 | 388.0 | 513.3 | 493.8 | 501.5 | 283.4 | 278.9 | 280.7 |
| 16 years or more | 273.5 | 264.1 | 267.8 | 324.3 | 315.3 | 318.9 | 200.1 | 190.7 | 194.4 |
| 25–44 years of age | | | | | | | | | |
| 0–8 years | 250.5 | 250.2 | 250.3 | 339.9 | 343.3 | 341.9 | 147.0 | 143.6 | 145.0 |
| 9–11 years | 300.9 | 304.5 | 303.1 | 435.1 | 437.5 | 436.5 | 162.7 | 168.8 | 166.4 |
| 12 years | 181.0 | 189.2 | 185.9 | 269.4 | 285.8 | 279.2 | 102.2 | 103.6 | 103.0 |
| 13–15 years. | 158.2 | 156.0 | 156.9 | 220.3 | 217.5 | 218.6 | 97.0 | 95.8 | 96.3 |
| 16 years or more | 94.3 | 94.4 | 94.4 | 124.8 | 126.1 | 125.6 | 57.9 | 57.0 | 57.4 |
| 45–64 years of age | | | | | | | | | |
| 0–8 years | 954.4 | 942.0 | 946.9 | 1,213.9 | 1,192.7 | 1,201.1 | 668.4 | 667.5 | 667.8 |
| 9–11 years | 873.3 | 912.9 | 897.2 | 1,246.7 | 1,293.2 | 1,274.7 | 579.9 | 615.7 | 601.5 |
| 12 years | 809.1 | 840.3 | 827.9 | 1,080.2 | 1,136.2 | 1,113.9 | 606.2 | 620.3 | 614.7 |
| 13–15 years. | 761.7 | 736.4 | 746.5 | 959.8 | 918.0 | 934.7 | 574.8 | 566.3 | 569.7 |
| 16 years or more | 536.1 | 515.0 | 523.4 | 630.1 | 608.5 | 617.1 | 394.8 | 375.8 | 383.3 |
| White | | | | | | | | | |
| 25–64 years¹ | | | | | | | | | |
| 0–8 years | 454.7 | 464.6 | 460.6 | 588.0 | 598.6 | 594.4 | 299.6 | 309.7 | 305.7 |
| 9–11 years | 462.8 | 471.7 | 468.2 | 665.7 | 672.1 | 669.6 | 282.4 | 294.9 | 289.9 |
| 12 years | 384.5 | 394.0 | 390.2 | 539.5 | 562.2 | 553.2 | 265.0 | 265.3 | 265.2 |
| 13–15 years. | 374.6 | 358.0 | 364.6 | 488.1 | 463.1 | 473.0 | 265.0 | 257.1 | 260.2 |
| 16 years or more | 264.0 | 254.8 | 258.4 | 313.6 | 304.7 | 308.2 | 190.0 | 181.1 | 184.6 |
| 25–44 years of age | | | | | | | | | |
| 0–8 years | 235.8 | 244.0 | 240.7 | 321.0 | 332.8 | 328.1 | 132.6 | 137.3 | 135.4 |
| 9–11 years | 260.7 | 258.2 | 259.2 | 376.9 | 370.4 | 373.0 | 136.7 | 139.6 | 138.4 |
| 12 years | 161.1 | 165.1 | 163.5 | 239.9 | 250.4 | 246.2 | 90.2 | 89.0 | 89.5 |
| 13–15 years. | 146.4 | 142.1 | 143.8 | 206.9 | 200.5 | 203.1 | 86.0 | 84.3 | 85.0 |
| 16 years or more | 90.9 | 90.9 | 90.9 | 120.7 | 121.9 | 121.4 | 54.6 | 53.5 | 53.9 |
| 45–64 years of age | | | | | | | | | |
| 0–8 years | 925.5 | 936.6 | 932.2 | 1,170.8 | 1,174.3 | 1,172.9 | 648.5 | 669.7 | 661.3 |
| 9–11 years | 843.3 | 870.6 | 859.8 | 1,195.8 | 1,219.9 | 1,210.3 | 556.4 | 587.6 | 575.3 |
| 12 years | 760.1 | 779.2 | 771.7 | 1,016.9 | 1,059.8 | 1,042.8 | 568.9 | 571.9 | 570.7 |
| 13–15 years. | 730.4 | 696.3 | 709.8 | 921.7 | 870.7 | 890.9 | 546.5 | 529.7 | 536.4 |
| 16 years or more | 524.4 | 503.4 | 511.7 | 617.4 | 595.4 | 604.1 | 380.3 | 362.2 | 369.3 |

¹Age adjusted.

NOTES: Based on data from 21 States in 1989 and 29 States in 1990 whose data on educational attainment from the death certificate were at least 90 percent complete. See Appendix I. Data for the black population are not shown because the rates are unstable due to small numbers of deaths in the subgroups. These data will be shown in future editions of Health, United States as the number of States in the reporting area increases.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics: Rates computed by the Division of Analysis from vital statistics data compiled by and population data developed by the Division of Vital Statistics.

Table 34 (page 1 of 2). Death rates for all causes, according to sex, race, and age: United States, selected years 1950–90

[Data are based on the National Vital Statistics System]

| Sex, race, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|----------------------------------|--|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| All races | Deaths per 100,000 resident population | | | | | | | | | |
| All ages, age adjusted | 840.5 | 760.9 | 714.3 | 585.8 | 548.9 | 544.8 | 539.2 | 539.9 | 528.0 | 520.2 |
| All ages, crude | 963.8 | 954.7 | 945.3 | 878.3 | 876.9 | 876.7 | 876.4 | 886.7 | 871.3 | 863.8 |
| Under 1 year | 3,299.2 | 2,696.4 | 2,142.4 | 1,288.3 | 1,088.1 | 1,051.1 | 1,037.2 | 1,035.7 | 1,027.9 | 971.9 |
| 1–4 years | 139.4 | 109.1 | 84.5 | 63.9 | 51.8 | 52.4 | 52.1 | 51.5 | 49.8 | 46.8 |
| 5–14 years | 60.1 | 46.6 | 41.3 | 30.6 | 26.5 | 26.2 | 25.9 | 26.1 | 25.7 | 24.0 |
| 15–24 years | 128.1 | 106.3 | 127.7 | 115.4 | 94.9 | 100.9 | 97.8 | 100.0 | 97.6 | 99.2 |
| 25–34 years | 178.7 | 146.4 | 157.4 | 135.5 | 124.4 | 133.4 | 134.7 | 137.1 | 140.0 | 139.2 |
| 35–44 years | 358.7 | 299.4 | 314.5 | 227.9 | 207.7 | 213.3 | 214.6 | 220.2 | 222.2 | 223.2 |
| 45–54 years | 853.9 | 756.0 | 730.0 | 584.0 | 519.3 | 508.2 | 501.9 | 490.5 | 480.1 | 473.4 |
| 55–64 years | 1,911.7 | 1,735.1 | 1,658.8 | 1,346.3 | 1,294.2 | 1,268.7 | 1,256.6 | 1,253.8 | 1,224.3 | 1,196.9 |
| 65–74 years | 4,067.7 | 3,822.1 | 3,582.7 | 2,994.9 | 2,862.8 | 2,833.3 | 2,789.4 | 2,771.7 | 2,693.8 | 2,648.6 |
| 75–84 years | 9,331.1 | 8,745.2 | 8,004.4 | 6,692.6 | 6,398.7 | 6,300.9 | 6,232.2 | 6,262.1 | 6,083.3 | 6,007.2 |
| 85 years and over | 20,196.9 | 19,857.5 | 16,344.9 | 15,980.3 | 15,712.4 | 15,589.8 | 15,559.6 | 15,934.5 | 15,409.6 | 15,327.4 |
| White male | | | | | | | | | | |
| All ages, age adjusted | 963.1 | 917.7 | 893.4 | 745.3 | 693.3 | 684.9 | 674.2 | 671.3 | 652.2 | 644.3 |
| All ages, crude | 1,089.5 | 1,098.5 | 1,086.7 | 983.3 | 963.6 | 958.6 | 952.7 | 957.9 | 936.5 | 930.9 |
| Under 1 year | 3,400.5 | 2,694.1 | 2,113.2 | 1,230.3 | 1,056.5 | 993.8 | 964.9 | 964.2 | 940.7 | 896.1 |
| 1–4 years | 135.5 | 104.9 | 83.6 | 66.1 | 52.8 | 52.4 | 51.5 | 48.3 | 45.9 | 45.9 |
| 5–14 years | 67.2 | 52.7 | 48.0 | 35.0 | 30.1 | 30.1 | 30.2 | 29.2 | 28.4 | 26.4 |
| 15–24 years | 152.4 | 143.7 | 170.8 | 167.0 | 134.2 | 143.1 | 134.2 | 135.8 | 128.6 | 131.3 |
| 25–34 years | 185.3 | 163.2 | 176.6 | 171.3 | 158.8 | 171.0 | 170.3 | 172.6 | 177.0 | 176.1 |
| 35–44 years | 380.9 | 332.6 | 343.5 | 257.4 | 243.1 | 250.1 | 251.6 | 259.5 | 263.4 | 268.2 |
| 45–54 years | 984.5 | 932.2 | 882.9 | 698.9 | 611.7 | 595.4 | 586.4 | 568.6 | 556.0 | 548.7 |
| 55–64 years | 2,304.4 | 2,225.2 | 2,202.6 | 1,728.5 | 1,625.8 | 1,586.3 | 1,567.0 | 1,546.7 | 1,504.1 | 1,467.2 |
| 65–74 years | 4,864.9 | 4,848.4 | 4,810.1 | 4,035.7 | 3,770.7 | 3,702.1 | 3,626.3 | 3,588.1 | 3,455.1 | 3,397.7 |
| 75–84 years | 10,526.3 | 10,299.6 | 10,098.8 | 8,829.8 | 8,486.1 | 8,333.5 | 8,212.2 | 8,196.7 | 7,913.4 | 7,844.9 |
| 85 years and over | 22,116.3 | 21,750.0 | 18,551.7 | 19,097.3 | 18,980.1 | 18,628.8 | 18,486.0 | 19,020.8 | 18,241.7 | 18,268.3 |
| Black male | | | | | | | | | | |
| All ages, age adjusted | 1,373.1 | 1,246.1 | 1,318.6 | 1,112.8 | 1,053.4 | 1,061.9 | 1,063.6 | 1,083.0 | 1,082.8 | 1,061.3 |
| All ages, crude | 1,260.3 | 1,181.7 | 1,186.6 | 1,034.1 | 989.3 | 1,002.6 | 1,006.2 | 1,026.1 | 1,026.7 | 1,008.0 |
| Under 1 year | — | 5,306.8 | 4,298.9 | 2,586.7 | 2,219.9 | 2,251.8 | 2,226.8 | 2,189.6 | 2,172.1 | 2,112.4 |
| 1–4 years | — | 208.5 | 150.5 | 110.5 | 90.1 | 92.2 | 92.0 | 92.1 | 90.0 | 85.8 |
| 5–14 years | 95.1 | 75.1 | 67.1 | 47.4 | 42.3 | 43.1 | 43.9 | 43.7 | 43.5 | 41.2 |
| 15–24 years | 289.7 | 212.0 | 320.6 | 209.1 | 173.6 | 189.8 | 203.2 | 222.4 | 234.5 | 252.2 |
| 25–34 years | 503.5 | 402.5 | 559.5 | 407.3 | 351.9 | 391.3 | 396.3 | 417.4 | 425.6 | 430.8 |
| 35–44 years | 878.1 | 762.0 | 956.6 | 689.8 | 630.2 | 661.0 | 683.4 | 706.7 | 718.1 | 699.6 |
| 45–54 years | 1,905.0 | 1,624.8 | 1,777.5 | 1,479.9 | 1,292.9 | 1,278.2 | 1,277.3 | 1,296.9 | 1,311.5 | 1,261.0 |
| 55–64 years | 3,773.2 | 3,316.4 | 3,256.9 | 2,873.0 | 2,779.8 | 2,723.1 | 2,667.3 | 2,712.7 | 2,699.9 | 2,618.4 |
| 65–74 years | 5,310.3 | 5,798.7 | 5,803.2 | 5,131.1 | 5,172.4 | 5,130.3 | 5,143.0 | 5,147.7 | 5,129.7 | 4,946.1 |
| 75–84 years | — | 8,605.1 | 9,454.9 | 9,231.6 | 9,262.3 | 9,290.8 | 9,275.3 | 9,454.6 | 9,163.3 | 9,129.5 |
| 85 years and over | — | 14,844.8 | 12,222.3 | 16,098.8 | 15,774.2 | 16,471.4 | 16,415.6 | 16,643.1 | 16,751.5 | 16,954.9 |
| White female | | | | | | | | | | |
| All ages, age adjusted | 645.0 | 555.0 | 501.7 | 411.1 | 391.0 | 388.1 | 384.8 | 385.3 | 376.0 | 369.9 |
| All ages, crude | 803.3 | 800.9 | 812.6 | 806.1 | 840.1 | 844.3 | 849.8 | 865.3 | 851.8 | 846.9 |
| Under 1 year | 2,566.8 | 2,007.7 | 1,614.6 | 962.5 | 799.3 | 772.6 | 760.3 | 754.1 | 739.5 | 690.0 |
| 1–4 years | 112.2 | 85.2 | 66.1 | 49.3 | 40.0 | 41.0 | 40.9 | 40.7 | 38.8 | 36.1 |
| 5–14 years | 45.1 | 34.7 | 29.9 | 22.9 | 19.5 | 18.7 | 18.0 | 18.7 | 19.0 | 17.9 |
| 15–24 years | 71.5 | 54.9 | 61.6 | 55.5 | 48.1 | 50.1 | 48.7 | 48.8 | 48.4 | 45.9 |
| 25–34 years | 112.8 | 85.0 | 84.1 | 65.4 | 59.4 | 61.0 | 63.4 | 62.7 | 63.1 | 61.5 |
| 35–44 years | 235.8 | 191.1 | 193.3 | 138.2 | 121.9 | 122.1 | 120.2 | 120.1 | 118.5 | 117.4 |
| 45–54 years | 546.4 | 458.8 | 462.9 | 372.7 | 341.7 | 332.8 | 328.5 | 320.4 | 310.8 | 309.3 |
| 55–64 years | 1,293.8 | 1,078.9 | 1,014.9 | 876.2 | 869.1 | 859.3 | 855.3 | 858.7 | 837.5 | 822.7 |
| 65–74 years | 3,242.8 | 2,779.3 | 2,470.7 | 2,066.6 | 2,027.1 | 2,031.8 | 2,002.5 | 1,995.9 | 1,948.5 | 1,923.5 |
| 75–84 years | 8,481.5 | 7,696.6 | 6,698.7 | 5,401.7 | 5,111.6 | 5,044.2 | 5,000.5 | 5,040.4 | 4,910.6 | 4,839.1 |
| 85 years and over | 19,679.5 | 19,477.7 | 15,980.2 | 14,979.6 | 14,745.4 | 14,647.4 | 14,681.4 | 15,019.1 | 14,526.1 | 14,400.6 |

See footnotes at end of table.

Table 34 (page 2 of 2). Death rates for all causes, according to sex, race, and age: United States, selected years 1950–90

[Data are based on the National Vital Statistics System]

| Sex, race, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | | | |
|----------------------------------|-------------------|-------------------|----------|--|----------|----------|----------|----------|----------|----------|--|--|--|
| Black female | | | | Deaths per 100,000 resident population | | | | | | | | | |
| All ages, age adjusted | 1,106.7 | 916.9 | 814.4 | 631.1 | 594.8 | 594.1 | 592.4 | 601.0 | 594.3 | 581.6 | | | |
| All ages, crude | 1,002.0 | 905.0 | 829.2 | 733.3 | 734.2 | 741.5 | 745.7 | 764.6 | 763.2 | 747.9 | | | |
| Under 1 year | --- | 4,162.2 | 3,368.8 | 2,123.7 | 1,821.4 | 1,781.5 | 1,804.3 | 1,834.0 | 1,839.8 | 1,735.5 | | | |
| 1–4 years | --- | 173.3 | 129.4 | 84.4 | 71.1 | 76.8 | 74.1 | 71.2 | 72.9 | 67.6 | | | |
| 5–14 years | 72.8 | 53.8 | 43.8 | 30.5 | 28.6 | 27.5 | 25.6 | 30.6 | 29.0 | 27.5 | | | |
| 15–24 years | 213.1 | 107.5 | 111.9 | 70.5 | 59.6 | 64.5 | 68.1 | 69.3 | 68.0 | 68.7 | | | |
| 25–34 years | 393.3 | 273.2 | 231.0 | 150.0 | 137.6 | 148.1 | 151.8 | 157.8 | 161.0 | 159.5 | | | |
| 35–44 years | 758.1 | 568.5 | 533.0 | 323.9 | 276.5 | 288.0 | 293.4 | 304.8 | 298.6 | 298.6 | | | |
| 45–54 years | 1,576.4 | 1,177.0 | 1,043.9 | 768.2 | 667.6 | 671.6 | 665.2 | 655.3 | 640.6 | 639.4 | | | |
| 55–64 years | 3,089.4 | 2,510.9 | 1,986.2 | 1,561.0 | 1,532.5 | 1,505.0 | 1,484.6 | 1,513.3 | 1,478.3 | 1,452.6 | | | |
| 65–74 years | 4,000.2 | 4,064.2 | 3,860.9 | 3,057.4 | 2,967.8 | 2,940.3 | 2,931.7 | 2,948.1 | 2,936.0 | 2,865.7 | | | |
| 75–84 years | --- | 6,730.0 | 6,691.5 | 6,212.1 | 6,078.0 | 5,928.3 | 5,905.2 | 5,991.4 | 5,930.2 | 5,688.3 | | | |
| 85 years and over | --- | 13,052.6 | 10,706.6 | 12,367.2 | 12,703.0 | 13,144.9 | 12,997.2 | 13,461.1 | 13,509.2 | 13,309.5 | | | |

¹Includes deaths of nonresidents of the United States.

NOTES: Data for the 1980's have been revised based on intercensal population estimates and differ from previous editions of Health, United States. See Appendix I, Department of Commerce.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Vital Statistics of the United States, Vol. II, Mortality, Part A, for data years 1950–90. Public Health Service. Washington. U.S. Government Printing Office; Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics and from table 1.

Table 35 (page 1 of 2). Death rates for diseases of heart, according to sex, race, and age: United States, selected years 1950–90

[Data are based on the National Vital Statistics System]

| Sex, race, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|--|-------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Deaths per 100,000 resident population | | | | | | | | | | |
| All races | | | | | | | | | | |
| All ages, age adjusted..... | 307.2 | 286.2 | 253.6 | 202.0 | 181.4 | 176.0 | 170.8 | 167.7 | 157.5 | 152.0 |
| All ages, crude | 355.5 | 369.0 | 362.0 | 336.0 | 324.1 | 318.8 | 313.8 | 312.9 | 297.3 | 289.5 |
| Under 1 year | 3.5 | 6.6 | 13.1 | 22.8 | 25.0 | 26.5 | 25.7 | 23.2 | 20.1 | 20.1 |
| 1–4 years | 1.3 | 1.3 | 1.7 | 2.6 | 2.2 | 2.6 | 2.2 | 2.4 | 1.9 | 1.9 |
| 5–14 years | 2.1 | 1.3 | 0.8 | 0.9 | 1.0 | 0.9 | 1.0 | 0.9 | 0.8 | 0.9 |
| 15–24 years | 6.8 | 4.0 | 3.0 | 2.9 | 2.8 | 2.8 | 2.7 | 2.9 | 2.5 | 2.5 |
| 25–34 years | 19.4 | 15.6 | 11.4 | 8.3 | 8.3 | 8.7 | 8.5 | 8.3 | 8.0 | 7.6 |
| 35–44 years | 86.4 | 74.6 | 66.7 | 44.6 | 38.1 | 37.6 | 35.7 | 34.3 | 32.4 | 31.4 |
| 45–54 years | 308.6 | 271.8 | 238.4 | 180.2 | 153.8 | 145.6 | 141.6 | 132.6 | 125.5 | 120.5 |
| 55–64 years | 808.1 | 737.9 | 652.3 | 494.1 | 443.0 | 428.8 | 413.9 | 406.8 | 383.0 | 367.3 |
| 65–74 years | 1,839.8 | 1,740.5 | 1,558.2 | 1,218.6 | 1,089.8 | 1,054.9 | 1,021.8 | 999.2 | 928.1 | 894.3 |
| 75–84 years | 4,310.1 | 4,089.4 | 3,683.8 | 2,993.1 | 2,693.1 | 2,617.8 | 2,539.5 | 2,518.9 | 2,378.9 | 2,295.7 |
| 85 years and over..... | 9,150.6 | 9,317.8 | 7,891.3 | 7,777.1 | 7,384.1 | 7,267.7 | 7,184.4 | 7,253.1 | 6,868.7 | 6,739.9 |
| White male | | | | | | | | | | |
| All ages, age adjusted..... | 381.1 | 375.4 | 347.6 | 277.5 | 246.2 | 236.7 | 228.1 | 223.0 | 208.7 | 202.0 |
| All ages, crude | 433.0 | 454.6 | 438.3 | 384.0 | 360.3 | 350.2 | 341.8 | 338.9 | 320.5 | 312.7 |
| Under 1 year | 4.1 | 6.9 | 12.0 | 22.5 | 24.2 | 26.5 | 25.4 | 22.0 | 19.0 | 17.5 |
| 1–4 years | 1.1 | 1.0 | 1.5 | 2.1 | 1.7 | 2.1 | 1.8 | 2.0 | 1.7 | 1.5 |
| 5–14 years | 1.7 | 1.1 | 0.8 | 0.9 | 0.8 | 0.9 | 0.9 | 1.0 | 0.8 | 0.9 |
| 15–24 years | 5.8 | 3.6 | 3.0 | 2.9 | 2.9 | 3.0 | 2.9 | 3.0 | 2.6 | 2.6 |
| 25–34 years | 20.1 | 17.6 | 12.3 | 9.1 | 9.3 | 9.6 | 9.5 | 9.3 | 9.1 | 8.4 |
| 35–44 years | 110.6 | 107.5 | 94.6 | 61.8 | 52.7 | 52.1 | 49.1 | 46.6 | 43.5 | 42.6 |
| 45–54 years | 423.6 | 413.2 | 365.7 | 269.8 | 225.5 | 209.9 | 202.9 | 187.7 | 176.4 | 170.6 |
| 55–64 years | 1,081.7 | 1,056.0 | 979.3 | 730.6 | 640.1 | 615.4 | 588.0 | 571.2 | 537.9 | 516.7 |
| 65–74 years | 2,308.3 | 2,297.9 | 2,177.2 | 1,729.7 | 1,522.7 | 1,467.6 | 1,408.3 | 1,381.1 | 1,278.0 | 1,230.5 |
| 75–84 years | 4,907.3 | 4,839.9 | 4,617.6 | 3,883.2 | 3,527.0 | 3,401.9 | 3,291.0 | 3,255.6 | 3,067.0 | 2,983.4 |
| 85 years and over..... | 9,950.5 | 10,135.8 | 8,818.0 | 8,958.0 | 8,481.7 | 8,161.5 | 8,052.8 | 8,160.9 | 7,660.7 | 7,558.7 |
| Black male | | | | | | | | | | |
| All ages, age adjusted..... | 415.5 | 381.2 | 375.9 | 327.3 | 310.8 | 306.1 | 301.0 | 301.7 | 289.7 | 275.9 |
| All ages, crude | 348.4 | 330.6 | 330.3 | 301.0 | 288.6 | 285.5 | 280.7 | 281.6 | 268.8 | 256.8 |
| Under 1 year | --- | 13.9 | 33.5 | 42.8 | 48.6 | 51.4 | 46.0 | 43.4 | 34.3 | 43.7 |
| 1–4 years | --- | 3.8 | 3.9 | 6.3 | 4.5 | 5.4 | 5.2 | 4.6 | 4.7 | 4.0 |
| 5–14 years | 6.4 | 3.0 | 1.4 | 1.3 | 1.6 | 1.4 | 1.7 | 1.8 | 1.4 | 1.3 |
| 15–24 years | 18.0 | 8.7 | 8.3 | 8.3 | 7.2 | 6.7 | 6.9 | 7.9 | 6.3 | 6.4 |
| 25–34 years | 51.9 | 43.1 | 41.6 | 30.3 | 29.5 | 29.7 | 27.3 | 28.1 | 25.8 | 24.5 |
| 35–44 years | 198.1 | 168.1 | 189.2 | 136.6 | 119.8 | 120.9 | 115.8 | 109.6 | 104.5 | 100.0 |
| 45–54 years | 624.1 | 514.0 | 512.8 | 433.4 | 385.2 | 368.5 | 366.7 | 357.0 | 363.4 | 328.9 |
| 55–64 years | 1,434.0 | 1,236.8 | 1,135.4 | 987.2 | 935.3 | 925.2 | 881.6 | 912.1 | 880.7 | 824.0 |
| 65–74 years | 2,140.1 | 2,281.4 | 2,237.8 | 1,847.2 | 1,839.2 | 1,792.0 | 1,801.7 | 1,772.4 | 1,700.0 | 1,632.9 |
| 75–84 years | --- | 3,533.6 | 3,783.4 | 3,578.8 | 3,436.6 | 3,407.3 | 3,384.3 | 3,448.3 | 3,191.6 | 3,107.1 |
| 85 years and over..... | --- | 6,037.9 | 5,367.6 | 6,819.5 | 6,393.5 | 6,666.7 | 6,523.4 | 6,640.0 | 6,368.2 | 6,479.6 |
| White female | | | | | | | | | | |
| All ages, age adjusted..... | 223.6 | 197.1 | 167.8 | 134.6 | 121.7 | 118.9 | 116.2 | 114.1 | 106.6 | 103.1 |
| All ages, crude | 289.4 | 306.5 | 313.8 | 319.2 | 321.8 | 320.4 | 318.7 | 319.9 | 305.1 | 298.4 |
| Under 1 year | 2.7 | 4.3 | 7.0 | 15.7 | 18.6 | 19.5 | 19.8 | 17.4 | 14.7 | 14.5 |
| 1–4 years | 1.1 | 0.9 | 1.2 | 2.1 | 1.6 | 2.1 | 1.7 | 2.2 | 1.3 | 1.6 |
| 5–14 years | 1.9 | 0.9 | 0.7 | 0.8 | 0.9 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 15–24 years | 5.3 | 2.8 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.7 | 1.5 | 1.4 |
| 25–34 years | 12.2 | 8.2 | 5.5 | 3.9 | 3.9 | 4.1 | 4.2 | 3.9 | 3.9 | 3.7 |
| 35–44 years | 40.5 | 28.6 | 23.9 | 16.4 | 14.4 | 13.9 | 13.2 | 12.6 | 12.1 | 11.4 |
| 45–54 years | 141.9 | 103.4 | 91.4 | 71.2 | 62.5 | 60.2 | 59.3 | 55.0 | 51.0 | 50.2 |
| 55–64 years | 460.2 | 383.0 | 317.7 | 248.1 | 227.1 | 223.0 | 218.9 | 215.3 | 198.3 | 192.4 |
| 65–74 years | 1,400.9 | 1,229.8 | 1,044.0 | 796.7 | 713.3 | 693.9 | 675.3 | 656.2 | 604.7 | 583.6 |
| 75–84 years | 3,925.2 | 3,629.7 | 3,143.5 | 2,493.6 | 2,207.5 | 2,152.7 | 2,089.5 | 2,065.1 | 1,954.5 | 1,874.3 |
| 85 years and over..... | 9,084.7 | 9,280.8 | 7,839.9 | 7,501.6 | 7,170.0 | 7,091.3 | 7,017.6 | 7,081.4 | 6,711.3 | 6,563.4 |

See footnotes at end of table.

Table 35 (page 2 of 2). Death rates for diseases of heart, according to sex, race, and age: United States, selected years 1950–90

[Data are based on the National Vital Statistics System]

| Sex, race, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|-----------------------------|--|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Black female | Deaths per 100,000 resident population | | | | | | | | | |
| All ages, age adjusted..... | 349.5 | 292.6 | 251.7 | 201.1 | 188.3 | 186.6 | 182.6 | 183.3 | 175.6 | 168.1 |
| All ages, crude | 289.9 | 268.5 | 261.0 | 249.7 | 250.3 | 253.4 | 251.1 | 254.6 | 246.2 | 237.0 |
| Under 1 year | --- | 12.0 | 31.3 | 43.6 | 41.0 | 44.0 | 36.7 | 40.2 | 39.2 | 35.8 |
| 1–4 years..... | --- | 2.8 | 4.2 | 4.4 | 5.3 | 4.8 | 4.4 | 4.2 | 3.2 | 3.8 |
| 5–14 years..... | 8.8 | 3.0 | 1.8 | 1.7 | 1.8 | 1.5 | 1.4 | 1.0 | 1.7 | 1.4 |
| 15–24 years..... | 19.8 | 10.0 | 6.0 | 4.6 | 4.6 | 4.6 | 4.4 | 4.4 | 4.2 | 4.4 |
| 25–34 years..... | 52.0 | 35.9 | 24.7 | 15.7 | 13.2 | 15.4 | 15.0 | 13.4 | 13.3 | 13.4 |
| 35–44 years..... | 185.0 | 125.3 | 99.8 | 61.7 | 50.1 | 49.7 | 46.1 | 50.3 | 46.6 | 43.6 |
| 45–54 years..... | 526.8 | 360.7 | 290.9 | 202.4 | 176.2 | 177.0 | 170.5 | 173.4 | 159.6 | 155.3 |
| 55–64 years..... | 1,210.7 | 952.3 | 710.5 | 530.1 | 510.7 | 490.5 | 482.8 | 486.8 | 470.3 | 442.0 |
| 65–74 years..... | 1,659.4 | 1,680.5 | 1,553.2 | 1,210.3 | 1,149.9 | 1,126.7 | 1,111.9 | 1,087.0 | 1,054.1 | 1,017.5 |
| 75–84 years | --- | 2,926.9 | 2,964.1 | 2,707.2 | 2,533.4 | 2,529.4 | 2,465.9 | 2,514.8 | 2,380.0 | 2,250.9 |
| 85 years and over..... | --- | 5,650.0 | 5,003.8 | 5,796.5 | 5,686.5 | 5,987.7 | 5,940.3 | 5,989.3 | 5,898.7 | 5,766.1 |

¹Includes deaths of nonresidents of the United States.

NOTES: For data years shown, the code numbers for cause of death are based on the then current International Classification of Diseases, which are described in Appendix II, tables IV and V. Data for the 1980's have been revised based on intercensal population estimates and differ from previous editions of Health, United States. See Appendix I, Department of Commerce.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Vital Statistics of the United States, Vol. II, Mortality, Part A, for data years 1950–90. Public Health Service. Washington. U.S. Government Printing Office; Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics and from table 1.

**Table 36 (page 1 of 2). Death rates for cerebrovascular diseases, according to sex, race, and age:
United States, selected years 1950–90**

[Data are based on the National Vital Statistics System]

| Sex, race, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|-----------------------------|--|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| All races | Deaths per 100,000 resident population | | | | | | | | | |
| All ages, age adjusted..... | 88.6 | 79.7 | 66.3 | 40.8 | 32.5 | 31.1 | 30.4 | 29.9 | 28.3 | 27.7 |
| All ages, crude..... | 104.0 | 108.0 | 101.9 | 75.1 | 64.3 | 62.3 | 61.8 | 61.6 | 59.0 | 57.9 |
| Under 1 year | 5.1 | 4.1 | 5.0 | 4.4 | 3.7 | 2.9 | 3.4 | 4.0 | 3.3 | 3.8 |
| 1–4 years..... | 0.9 | 0.8 | 1.0 | 0.5 | 0.3 | 0.3 | 0.4 | 0.4 | 0.3 | 0.3 |
| 5–14 years..... | 0.5 | 0.7 | 0.7 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 15–24 years..... | 1.6 | 1.8 | 1.6 | 1.0 | 0.8 | 0.7 | 0.6 | 0.7 | 0.6 | 0.6 |
| 25–34 years..... | 4.2 | 4.7 | 4.5 | 2.6 | 2.2 | 2.3 | 2.3 | 2.2 | 2.1 | 2.2 |
| 35–44 years..... | 18.7 | 14.7 | 15.6 | 8.5 | 7.2 | 7.1 | 7.0 | 6.9 | 6.5 | 6.5 |
| 45–54 years..... | 70.4 | 49.2 | 41.6 | 25.2 | 21.3 | 20.5 | 20.2 | 19.3 | 18.6 | 18.7 |
| 55–64 years..... | 195.3 | 147.3 | 115.8 | 65.2 | 54.8 | 53.6 | 52.8 | 52.0 | 49.6 | 48.0 |
| 65–74 years..... | 549.7 | 469.2 | 384.1 | 219.5 | 172.8 | 166.0 | 159.3 | 157.1 | 147.3 | 144.4 |
| 75–84 years..... | 1,499.6 | 1,491.3 | 1,254.2 | 788.6 | 601.5 | 569.5 | 558.1 | 548.4 | 515.1 | 499.3 |
| 85 years and over..... | 2,990.1 | 3,680.5 | 3,014.3 | 2,288.9 | 1,865.1 | 1,784.5 | 1,760.1 | 1,744.7 | 1,671.6 | 1,633.9 |
| White male | | | | | | | | | | |
| All ages, age adjusted..... | 87.0 | 80.3 | 68.8 | 41.9 | 33.0 | 31.2 | 30.6 | 30.3 | 28.4 | 27.7 |
| All ages, crude..... | 100.5 | 102.7 | 93.5 | 63.3 | 52.7 | 50.7 | 50.2 | 50.3 | 47.8 | 47.0 |
| Under 1 year | 5.9 | 4.3 | 4.5 | 3.8 | 3.7 | 2.5 | 3.7 | 3.2 | 2.9 | 3.1 |
| 1–4 years..... | 1.1 | 0.8 | 1.2 | 0.4 | *0.3 | *0.2 | 0.5 | 0.3 | *0.2 | *0.2 |
| 5–14 years..... | 0.5 | 0.7 | 0.8 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 |
| 15–24 years..... | 1.6 | 1.7 | 1.6 | 1.0 | 0.7 | 0.6 | 0.6 | 0.7 | 0.5 | 0.6 |
| 25–34 years..... | 3.4 | 3.5 | 3.2 | 2.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.7 | 1.8 |
| 35–44 years..... | 13.1 | 11.3 | 11.8 | 6.5 | 5.5 | 5.7 | 5.4 | 5.5 | 5.0 | 4.9 |
| 45–54 years..... | 53.7 | 40.9 | 35.6 | 21.7 | 18.1 | 16.6 | 16.8 | 16.2 | 15.0 | 15.4 |
| 55–64 years..... | 182.2 | 139.0 | 119.9 | 64.2 | 54.6 | 51.8 | 51.1 | 50.9 | 48.0 | 45.8 |
| 65–74 years..... | 569.7 | 501.0 | 420.0 | 240.4 | 186.4 | 174.6 | 169.0 | 167.4 | 156.3 | 153.2 |
| 75–84 years..... | 1,556.3 | 1,564.8 | 1,361.6 | 854.8 | 650.0 | 616.7 | 601.2 | 590.4 | 554.8 | 540.7 |
| 85 years and over..... | 3,127.1 | 3,734.8 | 3,018.1 | 2,236.9 | 1,765.6 | 1,701.8 | 1,667.7 | 1,685.4 | 1,591.3 | 1,549.8 |
| Black male | | | | | | | | | | |
| All ages, age adjusted..... | 146.2 | 141.2 | 122.5 | 77.5 | 62.7 | 61.1 | 59.7 | 60.8 | 57.3 | 56.1 |
| All ages, crude..... | 122.0 | 122.9 | 108.8 | 73.1 | 59.2 | 58.0 | 56.6 | 57.6 | 54.3 | 53.1 |
| Under 1 year | --- | 8.5 | 12.3 | 11.2 | 10.1 | 8.2 | *5.9 | 9.4 | 7.6 | 10.2 |
| 1–4 years..... | --- | 1.9 | *1.4 | *0.6 | *0.8 | *0.6 | *0.5 | *0.5 | *0.4 | *0.8 |
| 5–14 years..... | *0.7 | *0.9 | 0.8 | *0.5 | *0.1 | *0.2 | *0.3 | *0.2 | *0.4 | *0.2 |
| 15–24 years..... | 3.3 | 3.7 | 3.0 | 2.1 | 1.3 | 1.1 | 0.9 | 0.9 | 1.0 | 0.9 |
| 25–34 years..... | 12.0 | 12.8 | 14.6 | 7.7 | 5.8 | 6.2 | 5.5 | 6.9 | 4.9 | 4.6 |
| 35–44 years..... | 59.3 | 47.4 | 52.7 | 29.2 | 25.4 | 26.6 | 26.4 | 25.1 | 24.0 | 22.7 |
| 45–54 years..... | 211.9 | 166.1 | 136.1 | 82.1 | 71.1 | 68.9 | 68.2 | 67.4 | 67.6 | 68.4 |
| 55–64 years..... | 522.8 | 439.9 | 343.4 | 189.8 | 160.7 | 154.3 | 155.7 | 160.3 | 150.1 | 141.8 |
| 65–74 years..... | 783.6 | 899.2 | 780.1 | 472.8 | 379.7 | 361.8 | 345.8 | 357.1 | 335.0 | 327.2 |
| 75–84 years..... | --- | 1,475.2 | 1,445.7 | 1,067.6 | 814.4 | 809.9 | 780.5 | 799.3 | 723.3 | 723.7 |
| 85 years and over..... | --- | 2,700.0 | 1,963.1 | 1,873.2 | 1,429.0 | 1,436.5 | 1,443.8 | 1,403.1 | 1,454.5 | 1,430.5 |
| White female | | | | | | | | | | |
| All ages, age adjusted..... | 79.7 | 68.7 | 56.2 | 35.2 | 27.9 | 27.0 | 26.3 | 25.5 | 24.2 | 23.8 |
| All ages, crude..... | 103.3 | 110.1 | 109.8 | 88.8 | 78.4 | 76.5 | 76.2 | 75.4 | 72.6 | 71.8 |
| Under 1 year | 2.9 | 2.6 | 3.2 | 3.3 | 2.3 | 1.8 | 2.1 | 2.9 | 2.6 | 2.6 |
| 1–4 years..... | 0.6 | 0.5 | 0.6 | 0.4 | *0.3 | *0.2 | *0.3 | *0.3 | *0.3 | 0.3 |
| 5–14 years..... | 0.4 | 0.6 | 0.6 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 15–24 years..... | 1.2 | 1.4 | 1.1 | 0.7 | 0.7 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 |
| 25–34 years..... | 2.9 | 3.4 | 3.4 | 2.0 | 1.6 | 1.7 | 1.7 | 1.6 | 1.6 | 1.7 |
| 35–44 years..... | 13.6 | 10.1 | 11.5 | 6.7 | 5.3 | 5.0 | 5.2 | 4.6 | 4.4 | 4.4 |
| 45–54 years..... | 55.0 | 33.8 | 30.5 | 18.7 | 15.5 | 15.6 | 14.6 | 14.0 | 13.3 | 13.5 |
| 55–64 years..... | 156.9 | 103.0 | 78.1 | 48.7 | 40.0 | 40.4 | 39.0 | 37.3 | 35.9 | 35.8 |
| 65–74 years..... | 498.1 | 383.3 | 303.2 | 172.8 | 137.9 | 136.3 | 129.3 | 125.3 | 117.8 | 116.3 |
| 75–84 years..... | 1,471.3 | 1,444.7 | 1,176.8 | 730.3 | 552.9 | 524.0 | 516.3 | 503.8 | 471.0 | 457.6 |
| 85 years and over..... | 3,017.9 | 3,795.7 | 3,167.6 | 2,367.8 | 1,944.9 | 1,855.6 | 1,832.1 | 1,798.5 | 1,729.6 | 1,691.4 |

See footnotes at end of table.

**Table 36 (page 2 of 2). Death rates for cerebrovascular diseases, according to sex, race, and age:
United States, selected years 1950–90**

[Data are based on the National Vital Statistics System]

| Sex, race, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | | | |
|-----------------------------|-------------------|-------------------|---------|--|---------|---------|---------|---------|---------|---------|--|--|--|
| Black female | | | | Deaths per 100,000 resident population | | | | | | | | | |
| All ages, age adjusted..... | 155.6 | 139.5 | 107.9 | 61.7 | 50.6 | 47.9 | 47.1 | 47.1 | 45.5 | 42.7 | | | |
| All ages, crude | 128.3 | 127.7 | 112.2 | 77.9 | 68.6 | 65.6 | 65.1 | 66.3 | 64.5 | 60.7 | | | |
| Under 1 year | --- | *6.7 | 9.1 | *6.4 | *5.5 | *5.5 | 7.8 | 8.2 | *4.5 | *6.0 | | | |
| 1–4 years | --- | *1.3 | *1.4 | *0.5 | *0.5 | *0.4 | *0.6 | *0.7 | *0.5 | *0.1 | | | |
| 5–14 years | *0.6 | 1.0 | 0.8 | *0.3 | *0.3 | *0.3 | *0.2 | *0.4 | *0.3 | *0.3 | | | |
| 15–24 years | 4.2 | 3.4 | 3.0 | 1.7 | 1.5 | 1.0 | 1.1 | 1.1 | 1.3 | 1.1 | | | |
| 25–34 years | 15.9 | 17.4 | 14.3 | 7.0 | 5.7 | 6.1 | 5.9 | 5.4 | 5.8 | 5.5 | | | |
| 35–44 years | 75.0 | 57.4 | 49.1 | 21.6 | 19.1 | 18.3 | 17.4 | 18.3 | 16.7 | 18.6 | | | |
| 45–54 years | 248.9 | 166.2 | 119.4 | 61.9 | 50.8 | 47.6 | 48.6 | 44.4 | 45.7 | 44.1 | | | |
| 55–64 years | 567.7 | 452.0 | 272.4 | 138.7 | 113.6 | 112.0 | 111.7 | 109.2 | 103.3 | 97.0 | | | |
| 65–74 years | 754.4 | 830.5 | 673.5 | 362.2 | 285.6 | 273.0 | 266.4 | 271.4 | 255.1 | 236.8 | | | |
| 75–84 years | --- | 1,413.1 | 1,338.3 | 918.6 | 753.8 | 685.2 | 658.9 | 671.1 | 669.3 | 596.0 | | | |
| 85 years and over..... | --- | 2,578.9 | 2,210.5 | 1,896.3 | 1,657.1 | 1,580.4 | 1,563.2 | 1,609.4 | 1,530.7 | 1,496.5 | | | |

¹Includes deaths of nonresidents of the United States.

*Based on fewer than 20 deaths.

NOTES: For data years shown, the code numbers for cause of death are based on the then current International Classification of Diseases, which are described in Appendix II, tables IV and V. Data for the 1980's have been revised based on intercensal population estimates and differ from previous editions of Health, United States. See Appendix I, Department of Commerce.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Vital Statistics of the United States, Vol. II, Mortality, Part A, for data years 1950–90. Public Health Service. Washington. U.S. Government Printing Office; Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics and from table 1.

Table 37 (page 1 of 2). Death rates for malignant neoplasms, according to sex, race, and age: United States, selected years 1950–90

[Data are based on the National Vital Statistics System]

| Sex, race, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|----------------------------------|--|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| All races | Deaths per 100,000 resident population | | | | | | | | | |
| All ages, age adjusted | 125.3 | 125.8 | 129.8 | 132.8 | 134.4 | 134.1 | 134.0 | 134.0 | 134.5 | 135.0 |
| All ages, crude | 139.8 | 149.2 | 162.8 | 183.9 | 194.0 | 195.5 | 196.8 | 198.4 | 201.0 | 203.2 |
| Under 1 year | 8.7 | 7.2 | 4.7 | 3.2 | 3.1 | 2.6 | 2.7 | 2.4 | 2.8 | 2.3 |
| 1–4 years | 11.7 | 10.9 | 7.5 | 4.5 | 3.8 | 4.0 | 3.8 | 3.8 | 3.5 | 3.5 |
| 5–14 years | 6.7 | 6.8 | 6.0 | 4.3 | 3.5 | 3.5 | 3.4 | 3.2 | 3.3 | 3.1 |
| 15–24 years | 8.6 | 8.3 | 8.3 | 6.3 | 5.4 | 5.3 | 5.0 | 5.0 | 5.0 | 4.9 |
| 25–34 years | 20.0 | 19.5 | 16.5 | 13.7 | 13.2 | 13.2 | 12.5 | 12.1 | 12.3 | 12.6 |
| 35–44 years | 62.7 | 59.7 | 59.5 | 48.6 | 45.9 | 45.4 | 43.6 | 44.3 | 43.3 | 43.3 |
| 45–54 years | 175.1 | 177.0 | 182.5 | 180.0 | 170.1 | 166.8 | 165.6 | 161.9 | 158.9 | 158.9 |
| 55–64 years | 392.9 | 396.8 | 423.0 | 436.1 | 454.6 | 449.2 | 452.5 | 453.9 | 452.5 | 449.6 |
| 65–74 years | 692.5 | 713.9 | 751.2 | 817.9 | 845.5 | 856.6 | 855.3 | 855.7 | 867.8 | 872.3 |
| 75–84 years | 1,153.3 | 1,127.4 | 1,169.2 | 1,232.3 | 1,271.8 | 1,277.7 | 1,288.0 | 1,301.0 | 1,326.0 | 1,348.5 |
| 85 years and over | 1,451.0 | 1,450.0 | 1,320.7 | 1,594.6 | 1,615.4 | 1,632.0 | 1,643.2 | 1,674.7 | 1,703.7 | 1,752.9 |
| White male | | | | | | | | | | |
| All ages, age adjusted | 130.9 | 141.6 | 154.3 | 160.5 | 160.4 | 160.2 | 160.1 | 159.6 | 159.4 | 160.3 |
| All ages, crude | 147.2 | 166.1 | 185.1 | 208.7 | 218.1 | 219.8 | 221.6 | 222.8 | 224.9 | 227.7 |
| Under 1 year | 9.6 | 7.9 | 4.3 | 3.5 | 3.1 | 3.1 | 2.8 | 2.4 | 2.9 | 2.2 |
| 1–4 years | 13.1 | 13.1 | 8.5 | 5.4 | 4.4 | 4.7 | 4.1 | 4.0 | 3.9 | 3.7 |
| 5–14 years | 7.6 | 8.0 | 7.0 | 5.2 | 4.0 | 3.9 | 4.1 | 3.8 | 3.7 | 3.5 |
| 15–24 years | 9.9 | 10.3 | 10.6 | 7.8 | 6.4 | 6.6 | 5.8 | 5.8 | 5.5 | 5.7 |
| 25–34 years | 17.7 | 18.8 | 16.2 | 13.6 | 13.1 | 13.7 | 12.1 | 11.7 | 11.6 | 12.3 |
| 35–44 years | 44.5 | 46.3 | 50.1 | 41.1 | 39.8 | 37.9 | 37.0 | 37.2 | 35.9 | 35.8 |
| 45–54 years | 150.8 | 164.1 | 172.0 | 175.4 | 162.0 | 159.4 | 158.1 | 154.6 | 151.0 | 149.9 |
| 55–64 years | 409.4 | 450.9 | 498.1 | 497.4 | 512.0 | 508.5 | 514.5 | 514.1 | 511.8 | 508.2 |
| 65–74 years | 798.7 | 887.3 | 997.0 | 1,070.7 | 1,076.5 | 1,083.0 | 1,084.4 | 1,075.5 | 1,083.3 | 1,090.7 |
| 75–84 years | 1,367.6 | 1,413.7 | 1,592.7 | 1,779.7 | 1,817.1 | 1,825.2 | 1,826.6 | 1,838.6 | 1,853.6 | 1,883.2 |
| 85 years and over | 1,732.7 | 1,791.4 | 1,772.2 | 2,375.6 | 2,449.1 | 2,469.3 | 2,482.4 | 2,560.7 | 2,603.7 | 2,715.1 |
| Black male | | | | | | | | | | |
| All ages, age adjusted | 126.1 | 158.5 | 198.0 | 229.9 | 239.9 | 239.0 | 240.0 | 240.4 | 246.2 | 248.1 |
| All ages, crude | 106.6 | 136.7 | 171.6 | 205.5 | 214.9 | 214.5 | 215.8 | 215.7 | 220.6 | 221.9 |
| Under 1 year | --- | *6.8 | *5.3 | *4.5 | *2.5 | *1.8 | *2.1 | *2.7 | *1.6 | *3.4 |
| 1–4 years | --- | 7.9 | 7.6 | 5.1 | 3.4 | 3.2 | 4.3 | 3.4 | 3.0 | 3.6 |
| 5–14 years | 5.8 | 4.4 | 4.8 | 3.7 | 3.7 | 3.9 | 2.8 | 3.2 | 3.4 | 3.4 |
| 15–24 years | 7.9 | 9.7 | 9.4 | 8.1 | 6.4 | 6.3 | 6.5 | 6.2 | 6.9 | 6.1 |
| 25–34 years | 18.0 | 18.4 | 18.8 | 14.1 | 14.9 | 14.4 | 14.5 | 14.2 | 15.2 | 15.7 |
| 35–44 years | 55.7 | 72.9 | 81.3 | 73.8 | 69.9 | 69.8 | 63.3 | 66.0 | 63.0 | 64.3 |
| 45–54 years | 211.7 | 244.7 | 311.2 | 333.0 | 315.9 | 306.4 | 299.9 | 305.7 | 308.0 | 302.6 |
| 55–64 years | 490.8 | 579.7 | 689.2 | 812.5 | 851.3 | 830.1 | 830.4 | 821.0 | 840.5 | 859.2 |
| 65–74 years | 636.4 | 938.5 | 1,168.9 | 1,417.2 | 1,532.8 | 1,558.5 | 1,578.0 | 1,572.8 | 1,621.3 | 1,613.9 |
| 75–84 years | --- | 1,053.3 | 1,624.8 | 2,029.6 | 2,229.6 | 2,249.2 | 2,338.2 | 2,353.1 | 2,436.7 | 2,478.3 |
| 85 years and over | --- | 1,155.2 | 1,387.0 | 2,393.9 | 2,629.0 | 2,787.3 | 2,867.2 | 2,929.2 | 3,040.9 | 3,238.3 |
| White female | | | | | | | | | | |
| All ages, age adjusted | 119.4 | 109.5 | 107.6 | 107.7 | 110.5 | 110.3 | 110.0 | 110.4 | 111.1 | 111.2 |
| All ages, crude | 139.9 | 139.8 | 149.4 | 170.3 | 184.4 | 186.4 | 187.9 | 190.5 | 194.2 | 196.1 |
| Under 1 year | 7.8 | 6.8 | 5.4 | 2.7 | 3.1 | 2.4 | 3.0 | 2.3 | 3.2 | 2.2 |
| 1–4 years | 11.3 | 9.7 | 6.9 | 3.6 | 3.5 | 3.4 | 3.6 | 3.7 | 3.0 | 3.2 |
| 5–14 years | 6.3 | 6.2 | 5.4 | 3.7 | 3.1 | 3.1 | 2.9 | 2.7 | 3.0 | 2.9 |
| 15–24 years | 7.5 | 6.5 | 6.2 | 4.7 | 4.3 | 4.2 | 3.9 | 4.1 | 4.2 | 4.0 |
| 25–34 years | 20.9 | 18.8 | 16.3 | 13.5 | 12.7 | 12.2 | 12.4 | 11.7 | 12.2 | 11.9 |
| 35–44 years | 74.5 | 66.6 | 62.4 | 50.9 | 47.3 | 47.7 | 45.4 | 46.6 | 46.0 | 46.2 |
| 45–54 years | 185.8 | 175.7 | 177.3 | 166.4 | 161.6 | 156.8 | 156.3 | 152.8 | 149.9 | 150.9 |
| 55–64 years | 362.5 | 329.0 | 338.6 | 355.5 | 376.3 | 372.0 | 373.1 | 376.1 | 375.0 | 368.5 |
| 65–74 years | 616.5 | 562.1 | 554.7 | 605.2 | 644.9 | 658.7 | 654.2 | 660.0 | 671.2 | 675.1 |
| 75–84 years | 1,026.6 | 939.3 | 903.5 | 905.4 | 938.2 | 944.3 | 954.4 | 967.4 | 995.5 | 1,011.8 |
| 85 years and over | 1,348.3 | 1,304.9 | 1,126.6 | 1,266.8 | 1,285.4 | 1,296.4 | 1,308.3 | 1,323.2 | 1,348.3 | 1,372.3 |

See footnotes at end of table.

Table 37 (page 2 of 2). Death rates for malignant neoplasms, according to sex, race, and age: United States, selected years 1950–90

[Data are based on the National Vital Statistics System]

| Sex, race, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|----------------------------------|-------------------|-------------------|-------|---------|---------|---------|---------|---------|---------|---------|
| Black female | | | | | | | | | | |
| All ages, age adjusted | 131.9 | 127.8 | 123.5 | 129.7 | 131.8 | 133.7 | 133.9 | 133.5 | 133.5 | 137.2 |
| All ages, crude | 111.8 | 113.8 | 117.3 | 136.5 | 145.2 | 148.3 | 149.5 | 150.9 | 151.8 | 156.1 |
| Under 1 year | --- | *6.7 | *3.3 | *3.0 | *4.4 | *2.9 | *1.8 | *3.4 | *3.2 | *1.9 |
| 1–4 years | --- | 6.9 | 5.7 | 3.9 | 2.5 | 4.4 | 2.6 | 3.8 | 3.7 | 3.4 |
| 5–14 years | 3.9 | 4.8 | 4.0 | 3.4 | 3.0 | 3.0 | 3.1 | 2.9 | 2.9 | 2.4 |
| 15–24 years | 8.8 | 6.9 | 6.4 | 5.7 | 4.4 | 4.7 | 5.4 | 4.9 | 4.9 | 4.8 |
| 25–34 years | 34.3 | 31.0 | 20.9 | 18.3 | 17.2 | 18.0 | 16.0 | 17.8 | 16.1 | 18.7 |
| 35–44 years | 119.8 | 102.4 | 94.6 | 73.5 | 69.0 | 71.7 | 72.3 | 70.5 | 66.7 | 67.4 |
| 45–54 years | 277.0 | 254.8 | 228.6 | 230.2 | 212.4 | 220.9 | 220.8 | 202.9 | 205.3 | 209.9 |
| 55–64 years | 484.6 | 442.7 | 404.8 | 450.4 | 474.9 | 462.4 | 469.8 | 468.9 | 459.1 | 482.4 |
| 65–74 years | 477.3 | 541.6 | 615.8 | 662.4 | 704.2 | 729.4 | 717.4 | 746.9 | 769.4 | 773.2 |
| 75–84 years | --- | 696.3 | 763.3 | 923.9 | 986.3 | 981.4 | 1,004.6 | 1,017.7 | 1,029.8 | 1,059.9 |
| 85 years and over | --- | 728.9 | 791.5 | 1,159.9 | 1,284.2 | 1,318.1 | 1,326.4 | 1,365.8 | 1,383.0 | 1,431.3 |

¹Includes deaths of nonresidents of the United States.

*Based on fewer than 20 deaths.

NOTES: For data years shown, the code numbers for cause of death are based on the then current International Classification of Diseases, which are described in Appendix II, tables IV and V. Data for the 1980's have been revised based on intercensal population estimates and differ from previous editions of Health, United States. See Appendix I, Department of Commerce.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Vital Statistics of the United States, Vol. II, Mortality, Part A, for data years 1950–90. Public Health Service. Washington. U.S. Government Printing Office; Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics and from table 1.

**Table 38. Death rates for malignant neoplasms of respiratory system, according to sex, race, and age:
United States, selected years 1950–90**

[Data are based on the National Vital Statistics System]

| Sex, race, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|----------------------------------|--|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| All races | Deaths per 100,000 resident population | | | | | | | | | |
| All ages, age adjusted | 12.8 | 19.2 | 28.4 | 36.4 | 39.1 | 39.3 | 40.0 | 40.3 | 40.8 | 41.4 |
| All ages, crude | 14.1 | 22.2 | 34.2 | 47.9 | 53.5 | 54.3 | 55.7 | 56.5 | 57.6 | 58.9 |
| Under 25 years | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 25–34 years | 0.9 | 1.1 | 1.0 | 0.8 | 0.8 | 0.7 | 0.8 | 0.7 | 0.7 | 0.8 |
| 35–44 years | 5.1 | 7.3 | 11.6 | 9.6 | 8.2 | 7.9 | 7.7 | 7.6 | 7.3 | 7.2 |
| 45–54 years | 22.9 | 32.0 | 46.2 | 56.5 | 53.1 | 52.1 | 52.0 | 50.4 | 49.3 | 48.8 |
| 55–64 years | 55.2 | 81.5 | 116.2 | 144.3 | 159.8 | 159.5 | 162.3 | 164.6 | 165.0 | 166.5 |
| 65–74 years | 69.3 | 117.2 | 174.6 | 243.1 | 270.3 | 274.8 | 281.9 | 284.4 | 292.1 | 298.1 |
| 75–84 years | 69.3 | 102.9 | 175.1 | 251.4 | 292.4 | 301.6 | 310.8 | 321.2 | 333.5 | 344.1 |
| 85 years and over | 64.0 | 79.1 | 113.5 | 184.5 | 205.0 | 217.6 | 225.2 | 233.4 | 238.0 | 252.9 |
| White male | | | | | | | | | | |
| All ages, age adjusted | 21.6 | 34.6 | 49.9 | 58.0 | 58.7 | 58.6 | 59.2 | 58.8 | 58.3 | 59.0 |
| All ages, crude | 24.1 | 39.6 | 58.3 | 73.4 | 77.6 | 78.1 | 79.5 | 79.5 | 79.6 | 81.0 |
| Under 25 years | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | *0.1 | 0.1 | 0.1 | 0.1 |
| 25–34 years | 1.2 | 1.6 | 1.4 | 0.9 | 0.7 | 0.9 | 0.9 | 0.8 | 0.7 | 0.9 |
| 35–44 years | 7.9 | 10.4 | 15.4 | 11.2 | 9.5 | 8.6 | 8.6 | 8.5 | 7.9 | 8.0 |
| 45–54 years | 39.1 | 53.0 | 67.6 | 74.3 | 65.5 | 64.1 | 63.9 | 61.1 | 59.0 | 57.9 |
| 55–64 years | 95.9 | 149.8 | 199.3 | 215.0 | 223.3 | 223.2 | 225.8 | 225.4 | 221.8 | 222.5 |
| 65–74 years | 119.4 | 225.1 | 344.8 | 418.4 | 425.2 | 424.7 | 432.2 | 428.8 | 430.1 | 438.2 |
| 75–84 years | 109.1 | 191.9 | 360.7 | 516.1 | 561.7 | 570.2 | 572.9 | 578.7 | 580.6 | 593.6 |
| 85 years and over | 102.7 | 133.9 | 221.8 | 391.5 | 463.8 | 478.8 | 496.8 | 499.3 | 517.7 | 540.4 |
| Black male | | | | | | | | | | |
| All ages, age adjusted | 16.9 | 36.6 | 60.8 | 82.0 | 87.7 | 87.9 | 88.9 | 88.7 | 90.8 | 91.0 |
| All ages, crude | 14.3 | 31.1 | 51.2 | 70.8 | 75.5 | 75.8 | 76.8 | 76.7 | 78.0 | 77.8 |
| Under 25 years | *0.0 | *0.1 | *0.2 | *0.2 | *0.1 | *0.1 | *0.1 | *0.1 | *0.2 | *0.2 |
| 25–34 years | 2.1 | 2.6 | 2.9 | 1.9 | 1.9 | 1.5 | 1.8 | 1.3 | 1.2 | 2.1 |
| 35–44 years | 9.4 | 20.7 | 32.6 | 26.9 | 22.4 | 21.9 | 19.1 | 20.3 | 19.4 | 20.0 |
| 45–54 years | 41.1 | 75.0 | 123.5 | 142.8 | 133.1 | 132.5 | 128.1 | 124.2 | 128.0 | 125.0 |
| 55–64 years | 78.8 | 161.8 | 250.3 | 340.3 | 373.2 | 360.9 | 360.7 | 352.9 | 364.9 | 377.5 |
| 65–74 years | 65.2 | 184.6 | 322.2 | 499.4 | 565.9 | 580.9 | 610.9 | 610.1 | 622.8 | 613.4 |
| 75–84 years | --- | 126.3 | 290.6 | 499.6 | 579.0 | 606.5 | 632.2 | 666.8 | 684.7 | 669.9 |
| 85 years and over | --- | 110.3 | 154.4 | 337.7 | 409.7 | 485.7 | 495.3 | 569.2 | 507.6 | 535.7 |
| White female | | | | | | | | | | |
| All ages, age adjusted | 4.6 | 5.1 | 10.1 | 18.2 | 22.7 | 23.1 | 23.9 | 24.9 | 25.9 | 26.5 |
| All ages, crude | 5.4 | 6.4 | 13.1 | 26.5 | 34.8 | 36.1 | 37.7 | 39.7 | 41.9 | 43.4 |
| Under 25 years | *0.0 | 0.1 | 0.1 | 0.1 | *0.0 | 0.1 | *0.1 | *0.0 | *0.0 | *0.0 |
| 25–34 years | 0.5 | 0.6 | 0.6 | 0.5 | 0.6 | 0.5 | 0.6 | 0.5 | 0.5 | 0.6 |
| 35–44 years | 2.2 | 3.4 | 6.0 | 6.8 | 5.7 | 5.8 | 5.7 | 5.7 | 5.3 | 5.2 |
| 45–54 years | 6.5 | 9.8 | 22.1 | 33.9 | 36.2 | 35.2 | 35.3 | 35.3 | 34.4 | 35.2 |
| 55–64 years | 15.5 | 16.7 | 39.3 | 74.2 | 94.7 | 95.5 | 98.9 | 104.2 | 107.4 | 108.0 |
| 65–74 years | 27.2 | 26.5 | 45.4 | 108.1 | 149.0 | 156.0 | 161.1 | 168.1 | 180.3 | 185.3 |
| 75–84 years | 40.0 | 36.5 | 56.8 | 99.3 | 138.7 | 147.1 | 159.3 | 170.4 | 188.2 | 199.0 |
| 85 years and over | 44.0 | 45.2 | 57.4 | 96.8 | 103.2 | 114.9 | 119.2 | 129.3 | 131.5 | 143.2 |
| Black female | | | | | | | | | | |
| All ages, age adjusted | 4.1 | 5.5 | 10.9 | 19.5 | 22.8 | 23.7 | 24.7 | 25.2 | 26.0 | 27.5 |
| All ages, crude | 3.4 | 4.9 | 10.1 | 19.3 | 23.5 | 24.5 | 25.7 | 26.5 | 27.8 | 29.2 |
| Under 25 years | *0.1 | *0.1 | *0.1 | *0.1 | *0.1 | *0.0 | *0.1 | *0.1 | *0.1 | *0.1 |
| 25–34 years | *1.2 | 0.8 | *0.5 | *0.8 | 1.0 | *0.6 | *0.4 | *0.6 | 1.0 | 0.8 |
| 35–44 years | 2.7 | 3.4 | 10.5 | 7.9 | 7.6 | 8.5 | 8.9 | 6.5 | 7.8 | 7.9 |
| 45–54 years | 8.8 | 12.8 | 25.3 | 46.4 | 41.5 | 43.9 | 45.2 | 42.4 | 42.7 | 43.4 |
| 55–64 years | 15.3 | 20.7 | 36.4 | 83.8 | 107.8 | 104.9 | 110.0 | 113.9 | 111.2 | 122.8 |
| 65–74 years | 16.4 | 20.7 | 49.3 | 91.7 | 120.6 | 133.1 | 139.2 | 149.5 | 161.3 | 169.9 |
| 75–84 years | --- | 33.1 | 52.6 | 81.1 | 105.6 | 119.1 | 124.8 | 139.9 | 151.2 | 153.8 |
| 85 years and over | --- | 44.7 | 47.6 | 90.5 | 117.3 | 107.2 | 116.7 | 112.1 | 132.0 | 138.1 |

¹Includes deaths of nonresidents of the United States.

*Based on fewer than 20 deaths.

NOTES: For data years shown, the code numbers for cause of death are based on the then current International Classification of Diseases, which are described in Appendix II, tables IV and V. Data for the 1980's have been revised based on intercensal population estimates and differ from previous editions of Health, United States. See Appendix I, Department of Commerce.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Vital Statistics of the United States, Vol. II, Mortality, Part A, for data years 1950–90. Public Health Service. Washington. U.S. Government Printing Office; Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics and from table 1.

Table 39. Death rates for malignant neoplasm of breast for females, according to race and age: United States, selected years 1950–90

[Data are based on the National Vital Statistics System]

| Race and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|--|-------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Deaths per 100,000 resident population | | | | | | | | | | |
| All races | | | | | | | | | | |
| All ages, age adjusted | 22.2 | 22.3 | 23.1 | 22.7 | 23.3 | 23.2 | 23.0 | 23.3 | 23.1 | 23.1 |
| All ages, crude | 24.7 | 26.1 | 28.4 | 30.6 | 32.8 | 32.9 | 32.9 | 33.6 | 33.9 | 34.0 |
| Under 25 years | *0.1 | *0.1 | *0.0 | *0.0 | 0.0 | *0.0 | *0.0 | *0.0 | *0.0 | *0.0 |
| 25–34 years | 3.8 | 3.8 | 3.9 | 3.3 | 3.0 | 3.1 | 3.1 | 3.1 | 3.0 | 2.9 |
| 35–44 years | 20.8 | 20.2 | 20.4 | 17.9 | 17.5 | 18.3 | 17.6 | 17.6 | 17.8 | 17.8 |
| 45–54 years | 46.9 | 51.4 | 52.6 | 48.1 | 47.1 | 45.8 | 45.9 | 45.8 | 45.3 | 45.4 |
| 55–64 years | 70.4 | 70.8 | 77.6 | 80.5 | 84.2 | 81.6 | 81.5 | 82.8 | 79.7 | 78.6 |
| 65–74 years | 94.0 | 90.0 | 93.8 | 101.1 | 107.8 | 110.1 | 108.7 | 109.8 | 111.6 | 111.7 |
| 75–84 years | 139.8 | 129.9 | 127.4 | 126.4 | 136.2 | 134.5 | 135.9 | 140.8 | 145.1 | 146.3 |
| 85 years and over | 195.5 | 191.9 | 157.1 | 169.3 | 178.5 | 182.5 | 179.7 | 188.2 | 190.5 | 196.8 |
| White | | | | | | | | | | |
| All ages, age adjusted | 22.5 | 22.4 | 23.4 | 22.8 | 23.4 | 23.1 | 22.9 | 23.1 | 23.1 | 22.9 |
| All ages, crude | 25.7 | 27.2 | 29.9 | 32.3 | 34.7 | 34.8 | 34.7 | 35.4 | 35.8 | 35.9 |
| Under 25 years | *0.1 | *0.0 | *0.0 | *0.0 | *0.0 | *0.0 | *0.0 | *0.0 | *0.0 | *0.0 |
| 25–34 years | 3.7 | 3.6 | 3.7 | 3.0 | 2.8 | 2.8 | 2.9 | 2.8 | 2.8 | 2.6 |
| 35–44 years | 20.8 | 19.7 | 20.2 | 17.3 | 16.8 | 17.4 | 16.5 | 16.6 | 17.2 | 17.1 |
| 45–54 years | 47.1 | 51.2 | 53.0 | 48.1 | 46.8 | 44.8 | 44.7 | 44.8 | 44.1 | 44.3 |
| 55–64 years | 70.9 | 71.8 | 79.3 | 81.3 | 84.7 | 82.4 | 81.9 | 83.0 | 80.4 | 78.5 |
| 65–74 years | 96.3 | 91.6 | 95.9 | 103.7 | 109.9 | 112.4 | 110.6 | 111.8 | 113.2 | 113.3 |
| 75–84 years | 143.6 | 132.8 | 129.6 | 128.4 | 138.8 | 137.9 | 138.4 | 142.7 | 147.7 | 148.2 |
| 85 years and over | 204.2 | 199.7 | 161.9 | 171.7 | 180.9 | 184.6 | 181.6 | 189.9 | 192.7 | 198.0 |
| Black | | | | | | | | | | |
| All ages, age adjusted | 19.3 | 21.3 | 21.5 | 23.3 | 25.5 | 26.2 | 26.9 | 27.5 | 26.5 | 27.5 |
| All ages, crude | 16.4 | 18.7 | 19.7 | 22.9 | 25.9 | 26.5 | 27.5 | 28.5 | 27.7 | 29.0 |
| Under 25 years | *0.1 | *0.2 | *0.1 | *0.0 | *0.1 | *0.1 | *0.1 | *0.1 | *0.1 | *0.1 |
| 25–34 years | 4.9 | 6.1 | 5.9 | 5.3 | 4.5 | 5.7 | 4.8 | 5.4 | 5.2 | 5.3 |
| 35–44 years | 21.0 | 24.8 | 24.4 | 24.1 | 26.1 | 28.1 | 28.6 | 28.8 | 25.1 | 25.8 |
| 45–54 years | 46.5 | 54.4 | 52.0 | 52.7 | 55.5 | 60.6 | 61.9 | 60.5 | 61.4 | 60.5 |
| 55–64 years | 64.3 | 63.2 | 64.7 | 79.9 | 90.4 | 85.6 | 90.6 | 93.4 | 85.3 | 93.1 |
| 65–74 years | 67.0 | 72.3 | 77.3 | 84.3 | 100.7 | 102.1 | 103.0 | 105.1 | 109.9 | 112.2 |
| 75–84 years | --- | 87.5 | 101.8 | 114.1 | 117.6 | 108.1 | 120.4 | 133.1 | 129.2 | 140.5 |
| 85 years and over | --- | 92.1 | 112.1 | 149.9 | 159.4 | 170.3 | 171.5 | 187.2 | 184.3 | 201.5 |

¹Includes deaths of nonresidents of the United States.

*Based on fewer than 20 deaths.

NOTES: For data years shown, the code numbers for cause of death are based on the then current International Classification of Diseases, which are described in Appendix II, tables IV and V. Data for the 1980's have been revised based on intercensal population estimates and differ from previous editions of Health, United States. See Appendix I, Department of Commerce.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Vital Statistics of the United States, Vol. II, Mortality, Part A, for data years 1950–90. Public Health Service. Washington. U.S. Government Printing Office; Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics and from table 1.

Table 40. Death rates for human immunodeficiency virus (HIV) infection, according to sex, race, and age: United States, 1987–90

[Data are based on the National Vital Statistics System]

| Race and age | Both sexes | | | | Male | | | | Female | | | |
|------------------------------|--|------|------|------|------|------|-------|-------|--------|------|------|------|
| | 1987 | 1988 | 1989 | 1990 | 1987 | 1988 | 1989 | 1990 | 1987 | 1988 | 1989 | 1990 |
| All races | Deaths per 100,000 resident population | | | | | | | | | | | |
| All ages, age adjusted | 5.5 | 6.7 | 8.7 | 9.8 | 10.0 | 12.1 | 15.8 | 17.7 | 1.1 | 1.4 | 1.8 | 2.1 |
| All ages, crude | 5.6 | 6.8 | 8.9 | 10.1 | 10.2 | 12.4 | 16.4 | 18.5 | 1.1 | 1.4 | 1.8 | 2.2 |
| Under 1 year | 2.3 | 2.2 | 3.1 | 2.7 | 2.2 | 2.5 | 2.7 | 2.4 | 2.5 | 1.7 | 3.5 | 3.0 |
| 1–4 years | 0.7 | 0.8 | 0.8 | 0.8 | 0.7 | 0.8 | 0.7 | 0.8 | 0.7 | 0.7 | 0.8 | 0.8 |
| 5–14 years | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | *0.1 | 0.1 | 0.1 | 0.2 |
| 15–24 years | 1.3 | 1.4 | 1.6 | 1.5 | 2.2 | 2.3 | 2.6 | 2.2 | 0.3 | 0.5 | 0.6 | 0.7 |
| 25–34 years | 11.7 | 14.0 | 17.9 | 19.7 | 20.7 | 24.5 | 31.5 | 34.5 | 2.8 | 3.5 | 4.4 | 4.9 |
| 35–44 years | 14.0 | 17.6 | 23.5 | 27.4 | 26.3 | 32.6 | 43.6 | 50.2 | 2.1 | 3.0 | 3.9 | 5.2 |
| 45–54 years | 8.0 | 9.8 | 13.3 | 15.2 | 15.5 | 19.0 | 25.6 | 29.1 | 0.8 | 1.1 | 1.6 | 1.9 |
| 55–64 years | 3.5 | 4.0 | 5.4 | 6.2 | 6.8 | 7.8 | 10.5 | 12.0 | 0.5 | 0.7 | 0.8 | 1.1 |
| 65–74 years | 1.3 | 1.6 | 1.8 | 2.0 | 2.4 | 2.9 | 3.3 | 3.7 | 0.5 | 0.6 | 0.7 | 0.8 |
| 75–84 years | 0.8 | 0.8 | 0.7 | 0.7 | 1.2 | 1.5 | 1.2 | 1.1 | 0.5 | 0.4 | 0.4 | 0.4 |
| 85 years and over | *0.5 | *0.4 | *0.4 | *0.4 | *0.8 | *1.0 | *1.0 | *0.5 | *0.3 | *0.1 | *0.2 | *0.4 |
| White | | | | | | | | | | | | |
| All ages, age adjusted | 4.5 | 5.3 | 7.1 | 8.0 | 8.4 | 10.0 | 13.2 | 15.0 | 0.6 | 0.7 | 0.9 | 1.1 |
| All ages, crude | 4.6 | 5.5 | 7.3 | 8.3 | 8.7 | 10.4 | 13.9 | 15.8 | 0.6 | 0.7 | 0.9 | 1.1 |
| Under 1 year | 1.1 | 1.1 | 1.7 | 1.0 | 1.3 | 1.5 | 1.7 | *1.1 | *0.9 | *0.7 | 1.7 | *0.8 |
| 1–4 years | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | *0.2 | *0.3 | 0.4 | 0.4 | 0.5 | 0.5 |
| 5–14 years | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | *0.1 | *0.1 | *0.1 | *0.1 | *0.1 |
| 15–24 years | 1.0 | 1.0 | 1.2 | 1.0 | 1.7 | 1.8 | 2.0 | 1.7 | 0.1 | 0.3 | 0.4 | 0.4 |
| 25–34 years | 9.3 | 10.8 | 14.3 | 15.7 | 17.0 | 19.8 | 26.2 | 28.8 | 1.4 | 1.7 | 2.2 | 2.4 |
| 35–44 years | 11.4 | 14.1 | 18.9 | 22.4 | 21.8 | 26.9 | 36.1 | 42.5 | 1.0 | 1.4 | 1.6 | 2.3 |
| 45–54 years | 6.9 | 8.5 | 11.5 | 13.2 | 13.6 | 16.5 | 22.5 | 25.8 | 0.5 | 0.6 | 0.9 | 1.0 |
| 55–64 years | 3.1 | 3.4 | 4.6 | 5.1 | 6.0 | 6.6 | 9.1 | 10.0 | 0.4 | 0.5 | 0.5 | 0.7 |
| 65–74 years | 1.3 | 1.5 | 1.6 | 1.7 | 2.3 | 2.6 | 2.8 | 3.1 | 0.5 | 0.6 | 0.6 | 0.6 |
| 75–84 years | 0.8 | 0.8 | 0.7 | 0.6 | 1.2 | 1.4 | 1.2 | 1.0 | 0.6 | 0.4 | 0.4 | *0.3 |
| 85 years and over | *0.4 | *0.4 | *0.4 | *0.3 | *0.6 | *1.0 | *0.8 | *0.1 | *0.3 | *0.2 | *0.2 | *0.3 |
| Black | | | | | | | | | | | | |
| All ages, age adjusted | 14.3 | 17.9 | 23.0 | 25.7 | 25.4 | 31.6 | 40.3 | 44.2 | 4.7 | 6.2 | 8.1 | 9.9 |
| All ages, crude | 13.8 | 17.5 | 22.5 | 25.4 | 23.8 | 29.9 | 38.4 | 42.3 | 4.8 | 6.4 | 8.3 | 10.2 |
| Under 1 year | 9.5 | 8.2 | 10.9 | 11.9 | 7.3 | 8.8 | 8.6 | 9.3 | 11.7 | 7.6 | 13.3 | 14.6 |
| 1–4 years | 2.4 | 3.0 | 3.0 | 3.3 | 2.4 | 3.3 | 3.5 | 3.6 | 2.5 | 2.8 | 2.5 | 3.0 |
| 5–14 years | *0.3 | 0.4 | 0.4 | 1.0 | *0.3 | *0.4 | *0.4 | 1.1 | *0.3 | *0.5 | *0.4 | 0.9 |
| 15–24 years | 3.3 | 3.8 | 4.5 | 4.2 | 5.3 | 5.9 | 6.8 | 5.7 | 1.4 | 1.7 | 2.1 | 2.7 |
| 25–34 years | 31.4 | 38.4 | 46.8 | 51.0 | 52.9 | 64.0 | 77.4 | 84.1 | 12.2 | 15.6 | 19.4 | 21.4 |
| 35–44 years | 38.4 | 49.2 | 65.3 | 73.1 | 71.0 | 89.0 | 116.9 | 127.1 | 10.7 | 15.3 | 21.0 | 26.6 |
| 45–54 years | 18.0 | 23.5 | 31.7 | 35.9 | 35.7 | 45.7 | 60.6 | 67.1 | 3.4 | 5.1 | 7.7 | 10.0 |
| 55–64 years | 8.3 | 10.3 | 13.5 | 17.5 | 16.9 | 20.1 | 27.1 | 34.5 | *1.6 | 2.6 | 2.9 | 4.4 |
| 65–74 years | 1.7 | 3.5 | 5.1 | 6.0 | *2.5 | 7.0 | 10.2 | 10.6 | *1.1 | *1.2 | *1.6 | 2.8 |
| 75–84 years | *0.4 | *1.3 | *1.3 | *1.8 | *0.4 | *2.6 | *1.5 | *2.5 | *0.4 | *0.6 | *1.2 | *1.4 |
| 85 years and over | *1.4 | *0.5 | *0.5 | *1.8 | *3.1 | *1.5 | *1.5 | *4.5 | *0.7 | * | * | *0.6 |

*Based on fewer than 20 deaths.

NOTES: Categories for the coding and classification of human immunodeficiency virus infection were introduced in the United States beginning with mortality data for 1987. Data for the 1980's have been revised based on intercensal population estimates and differ from previous editions of Health, United States. See Appendix I, Department of Commerce.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics: Vital Statistics of the United States, Vol. II, Mortality, Part A, for data years 1987–90. Public Health Service. Washington. U.S. Government Printing Office.

Table 41. Maternal mortality rates for complications of pregnancy, childbirth, and the puerperium, according to race and age: United States, selected years 1950–90

[Data are based on the National Vital Statistics System]

| Race and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | | | |
|--------------------------------------|-------------------|-------------------|-------|--------------------------------|-------|-------|-------|-------|------|-------|--|--|--|
| All races | | | | Deaths per 100,000 live births | | | | | | | | | |
| All ages, age adjusted..... | 73.7 | 32.1 | 21.5 | 9.4 | 7.6 | 7.0 | 6.1 | 8.0 | 7.3 | 7.6 | | | |
| All ages, crude..... | 83.3 | 37.1 | 21.5 | 9.2 | 7.8 | 7.2 | 6.6 | 8.4 | 7.9 | 8.2 | | | |
| Under 20 years..... | 70.7 | 22.7 | 18.9 | 7.6 | 6.9 | 5.9 | 5.1 | 7.0 | 5.8 | 7.5 | | | |
| 20–24 years..... | 47.6 | 20.7 | 13.0 | 5.8 | 5.4 | 5.7 | 4.8 | 7.2 | 6.4 | 6.1 | | | |
| 25–29 years..... | 63.5 | 29.8 | 17.0 | 7.7 | 6.4 | 5.8 | 5.3 | 6.1 | 6.7 | 6.0 | | | |
| 30–34 years..... | 107.7 | 50.3 | 31.6 | 13.6 | 8.9 | 7.8 | 8.9 | 9.3 | 10.0 | 9.5 | | | |
| 35 years and over ² | 222.0 | 104.3 | 81.9 | 36.3 | 25.0 | 21.4 | 15.1 | 21.9 | 15.3 | 20.7 | | | |
| White | | | | | | | | | | | | | |
| All ages, age adjusted..... | 53.1 | 22.4 | 14.4 | 6.7 | 4.9 | 4.6 | 4.8 | 5.5 | 5.4 | 5.1 | | | |
| All ages, crude..... | 61.1 | 26.0 | 14.3 | 6.6 | 5.1 | 4.8 | 5.0 | 5.8 | 5.6 | 5.4 | | | |
| Under 20 years..... | 44.9 | 14.8 | 13.8 | 5.8 | *4.3 | *4.0 | *5.3 | *3.7 | *5.2 | *5.3 | | | |
| 20–24 years..... | 35.7 | 15.3 | 8.4 | 4.2 | 3.3 | 3.7 | 3.8 | 5.4 | 4.9 | 3.9 | | | |
| 25–29 years..... | 45.0 | 20.3 | 11.1 | 5.4 | 4.6 | 3.6 | 3.8 | 4.5 | 4.8 | 4.8 | | | |
| 30–34 years..... | 75.9 | 34.3 | 18.7 | 9.3 | 5.1 | 5.1 | 5.9 | 7.0 | 6.4 | 5.0 | | | |
| 35 years and over ² | 174.1 | 73.9 | 59.3 | 25.5 | 17.5 | 15.8 | 11.6 | 12.2 | 9.7 | 12.6 | | | |
| Black | | | | | | | | | | | | | |
| All ages, age adjusted..... | --- | 92.0 | 65.5 | 24.9 | 22.1 | 20.3 | 15.2 | 20.9 | 18.6 | 21.7 | | | |
| All ages, crude..... | --- | 103.6 | 60.9 | 22.4 | 21.3 | 19.7 | 14.9 | 20.5 | 18.4 | 22.4 | | | |
| Under 20 years..... | --- | 54.8 | 32.3 | 13.1 | *12.4 | *10.9 | *4.3 | *12.3 | *7.0 | *12.0 | | | |
| 20–24 years..... | --- | 56.9 | 41.9 | 13.9 | 14.6 | 14.5 | 9.8 | 15.2 | 13.5 | 14.7 | | | |
| 25–29 years..... | --- | 92.8 | 65.2 | 22.4 | 19.4 | 20.4 | 15.1 | 15.1 | 17.9 | 14.9 | | | |
| 30–34 years..... | --- | 150.6 | 117.8 | 44.0 | 38.0 | 30.9 | 32.8 | 28.4 | 33.8 | 44.2 | | | |
| 35 years and over ² | --- | 299.5 | 207.5 | 100.6 | 77.2 | *62.4 | *46.1 | 90.7 | 57.5 | 79.7 | | | |

¹Includes deaths of nonresidents of the United States.

²Rates computed by relating deaths of women 35 years and over to live births to women 35–49 years.

*Based on fewer than 20 deaths.

NOTE: For data years shown, the code numbers for cause of death are based on the then current International Classification of Diseases, which are described in Appendix II, tables IV and V.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Vital Statistics of the United States, Vol. II, Mortality, Part A, for data years 1950–90. Public Health Service. Washington. U.S. Government Printing Office; Vital Statistics of the United States, Vol. I, Natality, for data years 1950–90. Public Health Service. Washington. U.S. Government Printing Office; Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics.

**Table 42 (page 1 of 2). Death rates for motor vehicle crashes, according to sex, race, and age:
United States, selected years 1950–90**

[Data are based on the National Vital Statistics System]

| Sex, race, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|--|-------------------|-------------------|------|-------|------|------|------|------|------|------|
| Deaths per 100,000 resident population | | | | | | | | | | |
| All races | | | | | | | | | | |
| All ages, age adjusted | 23.3 | 22.5 | 27.4 | 22.9 | 18.8 | 19.4 | 19.4 | 19.7 | 18.9 | 18.5 |
| All ages, crude | 23.1 | 21.3 | 26.9 | 23.5 | 19.3 | 19.9 | 19.9 | 20.1 | 19.3 | 18.8 |
| Under 1 year | 8.4 | 8.1 | 9.8 | 7.0 | 4.9 | 4.9 | 5.4 | 5.7 | 5.6 | 4.9 |
| 1–4 years | 11.5 | 10.0 | 11.5 | 9.2 | 7.2 | 7.0 | 6.9 | 7.0 | 6.9 | 6.3 |
| 5–14 years | 8.8 | 7.9 | 10.2 | 7.9 | 6.9 | 7.0 | 7.1 | 7.1 | 6.5 | 5.9 |
| 15–24 years | 34.4 | 38.0 | 47.2 | 44.8 | 35.7 | 38.5 | 37.1 | 37.8 | 34.6 | 34.1 |
| 25–34 years | 24.6 | 24.3 | 30.9 | 29.1 | 23.0 | 24.4 | 24.4 | 24.2 | 23.8 | 23.6 |
| 35–44 years | 20.3 | 19.3 | 24.9 | 20.9 | 17.2 | 16.6 | 17.3 | 17.5 | 17.3 | 16.9 |
| 45–54 years | 22.2 | 21.4 | 25.5 | 18.6 | 15.2 | 15.2 | 15.5 | 16.0 | 15.7 | 15.6 |
| 55–64 years | 29.2 | 25.1 | 27.9 | 17.4 | 15.6 | 15.3 | 15.8 | 15.9 | 16.0 | 15.9 |
| 65–74 years | 38.8 | 31.4 | 32.8 | 19.2 | 17.9 | 18.1 | 18.8 | 19.5 | 19.4 | 18.6 |
| 75–84 years | 52.7 | 41.8 | 43.5 | 28.1 | 27.4 | 28.6 | 29.1 | 29.9 | 29.5 | 29.1 |
| 85 years and over | 45.1 | 37.9 | 34.2 | 27.6 | 26.5 | 25.6 | 27.6 | 29.7 | 29.5 | 31.2 |
| White male | | | | | | | | | | |
| All ages, age adjusted | 35.9 | 34.0 | 40.1 | 34.8 | 27.6 | 28.7 | 28.3 | 28.4 | 26.7 | 26.3 |
| All ages, crude | 35.1 | 31.5 | 39.1 | 35.9 | 28.3 | 29.3 | 29.0 | 28.9 | 27.2 | 26.7 |
| Under 1 year | 9.1 | 8.8 | 9.1 | 7.0 | 4.6 | 4.2 | 4.4 | 6.0 | 5.1 | 4.8 |
| 1–4 years | 13.2 | 11.3 | 12.2 | 9.5 | 7.7 | 7.1 | 7.2 | 7.0 | 6.9 | 6.1 |
| 5–14 years | 12.0 | 10.3 | 12.6 | 9.8 | 8.6 | 8.8 | 9.2 | 8.8 | 7.9 | 6.8 |
| 15–24 years | 58.3 | 62.7 | 75.2 | 73.8 | 56.5 | 61.4 | 57.8 | 58.6 | 52.5 | 52.5 |
| 25–34 years | 39.1 | 38.6 | 47.0 | 46.6 | 35.8 | 37.8 | 37.4 | 36.7 | 35.4 | 35.4 |
| 35–44 years | 30.9 | 28.4 | 35.2 | 30.7 | 24.3 | 23.9 | 24.6 | 24.8 | 23.9 | 23.7 |
| 45–54 years | 31.6 | 29.7 | 34.6 | 26.3 | 21.0 | 20.9 | 20.8 | 21.7 | 20.9 | 20.7 |
| 55–64 years | 41.9 | 34.4 | 39.0 | 23.9 | 20.7 | 20.1 | 21.0 | 20.7 | 21.2 | 20.6 |
| 65–74 years | 59.1 | 45.5 | 46.2 | 25.8 | 22.0 | 22.8 | 24.5 | 24.8 | 24.2 | 23.5 |
| 75–84 years | 86.4 | 66.8 | 69.2 | 43.6 | 41.2 | 42.9 | 43.4 | 43.4 | 43.1 | 41.1 |
| 85 years and over | 79.3 | 61.9 | 65.5 | 57.3 | 57.0 | 51.7 | 58.8 | 59.9 | 62.9 | 65.3 |
| Black male | | | | | | | | | | |
| All ages, age adjusted | 39.8 | 38.2 | 50.1 | 32.9 | 28.0 | 29.5 | 28.9 | 30.1 | 29.8 | 28.9 |
| All ages, crude | 37.2 | 33.1 | 44.3 | 31.1 | 27.1 | 29.0 | 28.2 | 29.4 | 28.9 | 28.1 |
| Under 1 year | --- | *6.8 | 10.6 | 7.8 | *6.2 | 8.2 | 8.4 | 7.7 | 7.6 | *5.6 |
| 1–4 years | --- | 12.7 | 16.9 | 13.7 | 10.9 | 10.9 | 10.0 | 9.3 | 9.0 | 10.1 |
| 5–14 years | 9.7 | 10.4 | 16.1 | 10.5 | 9.2 | 9.9 | 9.5 | 9.8 | 9.0 | 8.4 |
| 15–24 years | 41.6 | 46.4 | 58.1 | 34.9 | 32.0 | 35.2 | 36.1 | 37.8 | 36.4 | 36.1 |
| 25–34 years | 57.4 | 51.0 | 70.4 | 44.9 | 37.7 | 42.3 | 38.9 | 39.1 | 38.6 | 39.5 |
| 35–44 years | 45.9 | 43.6 | 59.5 | 41.2 | 34.7 | 34.3 | 34.3 | 36.2 | 36.4 | 33.5 |
| 45–54 years | 49.9 | 48.1 | 61.4 | 39.1 | 30.1 | 31.7 | 32.8 | 32.6 | 36.2 | 34.1 |
| 55–64 years | 58.8 | 47.3 | 62.1 | 40.3 | 36.3 | 34.1 | 32.5 | 33.1 | 35.4 | 32.5 |
| 65–74 years | 48.5 | 46.1 | 54.9 | 41.8 | 31.7 | 29.1 | 33.9 | 40.5 | 33.3 | 33.2 |
| 75–84 years | --- | 51.8 | 51.6 | 46.5 | 42.0 | 53.1 | 36.3 | 45.4 | 44.4 | 40.8 |
| 85 years and over | --- | *58.6 | 45.7 | *34.0 | 38.7 | 66.7 | 43.8 | 70.8 | 53.0 | 48.3 |
| White female | | | | | | | | | | |
| All ages, age adjusted | 10.6 | 11.1 | 14.4 | 12.3 | 10.8 | 11.0 | 11.4 | 11.6 | 11.6 | 11.0 |
| All ages, crude | 10.9 | 11.2 | 14.8 | 12.8 | 11.4 | 11.6 | 12.0 | 12.2 | 12.1 | 11.6 |
| Under 1 year | 7.8 | 7.5 | 10.2 | 7.1 | 3.9 | 4.7 | 5.9 | 5.5 | 4.9 | 4.7 |
| 1–4 years | 10.1 | 8.3 | 9.6 | 7.7 | 5.8 | 6.1 | 5.9 | 6.2 | 6.1 | 5.2 |
| 5–14 years | 5.6 | 5.3 | 6.9 | 5.7 | 5.2 | 4.9 | 5.0 | 5.2 | 5.1 | 4.7 |
| 15–24 years | 12.6 | 15.6 | 22.7 | 23.0 | 20.0 | 21.4 | 21.5 | 21.6 | 21.1 | 19.5 |
| 25–34 years | 9.0 | 9.0 | 12.7 | 12.2 | 10.1 | 10.9 | 11.7 | 11.8 | 12.1 | 11.6 |
| 35–44 years | 8.1 | 8.9 | 12.3 | 10.6 | 9.4 | 8.5 | 9.3 | 9.2 | 9.6 | 9.2 |
| 45–54 years | 10.8 | 11.4 | 14.3 | 10.2 | 9.0 | 8.6 | 9.3 | 9.6 | 9.6 | 9.4 |
| 55–64 years | 15.0 | 15.3 | 16.1 | 10.5 | 9.9 | 9.7 | 10.4 | 10.6 | 10.2 | 10.5 |
| 65–74 years | 20.9 | 19.3 | 22.1 | 13.4 | 14.3 | 14.4 | 13.8 | 14.5 | 15.3 | 14.0 |
| 75–84 years | 25.4 | 23.8 | 28.1 | 19.0 | 19.7 | 20.3 | 21.7 | 22.4 | 22.0 | 22.4 |
| 85 years and over | 22.3 | 22.2 | 18.1 | 15.3 | 15.3 | 14.9 | 16.1 | 18.0 | 17.7 | 19.1 |

See footnotes at end of table.

**Table 42 (page 2 of 2). Death rates for motor vehicle crashes, according to sex, race, and age:
United States, selected years 1950–90**

[Data are based on the National Vital Statistics System]

| Sex, race, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | | |
|-----------------------------|-------------------|-------------------|--|-------|------|-------|------|-------|------|------|--|--|
| Black female | | | Deaths per 100,000 resident population | | | | | | | | | |
| All ages, age adjusted..... | 10.3 | 10.0 | 13.8 | 8.4 | 8.2 | 8.5 | 8.8 | 9.4 | 9.3 | 9.3 | | |
| All ages, crude | 10.2 | 9.7 | 13.4 | 8.3 | 8.3 | 8.6 | 8.9 | 9.5 | 9.4 | 9.4 | | |
| Under 1 year | --- | 8.1 | 11.9 | *5.3 | 8.1 | *5.5 | *5.3 | *5.5 | 7.8 | 7.0 | | |
| 1–4 years..... | --- | 8.8 | 12.6 | 9.5 | 6.8 | 6.9 | 7.5 | 7.5 | 6.3 | 7.7 | | |
| 5–14 years..... | 6.2 | 5.9 | 9.3 | 5.2 | 4.4 | 4.9 | 4.8 | 5.7 | 4.7 | 4.3 | | |
| 15–24 years..... | 11.5 | 9.9 | 13.4 | 8.0 | 9.1 | 9.2 | 9.6 | 10.8 | 10.2 | 9.9 | | |
| 25–34 years..... | 10.7 | 9.8 | 13.3 | 10.6 | 9.3 | 10.4 | 11.2 | 11.3 | 12.1 | 11.1 | | |
| 35–44 years..... | 11.1 | 11.0 | 16.1 | 8.3 | 9.1 | 8.6 | 9.2 | 10.0 | 10.3 | 9.4 | | |
| 45–54 years..... | 10.6 | 11.8 | 16.4 | 9.1 | 8.3 | 8.9 | 9.3 | 9.2 | 8.7 | 9.6 | | |
| 55–64 years..... | 14.0 | 14.0 | 17.0 | 9.3 | 9.7 | 11.2 | 9.0 | 10.1 | 10.0 | 12.2 | | |
| 65–74 years..... | 12.7 | 14.2 | 16.3 | 8.5 | 9.7 | 9.8 | 12.1 | 9.8 | 12.9 | 13.7 | | |
| 75–84 years..... | --- | *8.8 | 14.4 | 11.1 | 14.6 | 9.6 | 10.4 | 13.5 | 13.0 | 15.0 | | |
| 85 years and over..... | --- | *21.1 | *15.4 | *12.3 | *9.8 | *11.6 | *7.6 | *11.4 | *6.5 | *9.0 | | |

¹Includes deaths of nonresidents of the United States.

*Based on fewer than 20 deaths.

NOTES: For data years shown, the code numbers for cause of death are based on the then current International Classification of Diseases, which are described in Appendix II, tables IV and V. Data for the 1980's have been revised based on intercensal population estimates and differ from previous editions of Health, United States. See Appendix I, Department of Commerce.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Vital Statistics of the United States, Vol. II, Mortality, Part A, for data years 1950–90. Public Health Service. Washington. U.S. Government Printing Office; Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics and from table 1.

Table 43 (page 1 of 2). Death rates for homicide and legal intervention, according to sex, race, and age: United States, selected years 1950–90

[Data are based on the National Vital Statistics System]

| Sex, race, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|-----------------------------|--|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| All races | Deaths per 100,000 resident population | | | | | | | | | |
| All ages, age adjusted..... | 5.4 | 5.2 | 9.1 | 10.8 | 8.3 | 9.0 | 8.6 | 9.0 | 9.4 | 10.2 |
| All ages, crude..... | 5.3 | 4.7 | 8.3 | 10.7 | 8.4 | 9.0 | 8.7 | 9.0 | 9.3 | 10.0 |
| Under 1 year..... | 4.4 | 4.8 | 4.3 | 5.9 | 5.4 | 7.5 | 7.4 | 8.4 | 8.7 | 8.4 |
| 1–4 years..... | 0.6 | 0.7 | 1.9 | 2.5 | 2.5 | 2.7 | 2.3 | 2.6 | 2.7 | 2.6 |
| 5–14 years..... | 0.5 | 0.5 | 0.9 | 1.2 | 1.2 | 1.1 | 1.2 | 1.3 | 1.5 | 1.5 |
| 15–24 years..... | 6.3 | 5.9 | 11.7 | 15.6 | 11.9 | 14.0 | 13.8 | 15.1 | 16.5 | 19.9 |
| 25–34 years..... | 9.9 | 9.7 | 16.6 | 19.6 | 14.8 | 16.3 | 15.3 | 16.2 | 16.5 | 17.7 |
| 35–44 years..... | 8.8 | 8.1 | 13.7 | 15.1 | 11.3 | 11.5 | 10.9 | 10.9 | 11.0 | 11.8 |
| 45–54 years..... | 6.1 | 6.2 | 10.1 | 11.1 | 8.1 | 8.4 | 7.8 | 7.2 | 7.7 | 7.6 |
| 55–64 years..... | 4.0 | 4.2 | 7.1 | 7.0 | 5.7 | 5.4 | 5.5 | 5.3 | 5.1 | 5.0 |
| 65–74 years..... | 3.2 | 2.8 | 5.0 | 5.7 | 4.3 | 4.4 | 4.4 | 4.3 | 4.1 | 3.8 |
| 75–84 years..... | 2.6 | 2.4 | 4.0 | 5.2 | 4.3 | 4.6 | 4.8 | 4.5 | 4.2 | 4.3 |
| 85 years and over..... | 2.3 | 2.4 | 4.2 | 5.3 | 4.2 | 4.7 | 5.2 | 4.8 | 4.4 | 4.6 |
| White male | | | | | | | | | | |
| All ages, age adjusted..... | 3.9 | 3.9 | 7.3 | 10.9 | 8.1 | 8.4 | 7.8 | 7.8 | 8.1 | 8.9 |
| All ages, crude..... | 3.9 | 3.6 | 6.8 | 10.9 | 8.2 | 8.6 | 8.0 | 7.9 | 8.2 | 9.0 |
| Under 1 year..... | 4.3 | 3.8 | 2.9 | 4.3 | 3.8 | 5.5 | 6.1 | 5.8 | 5.8 | 6.4 |
| 1–4 years..... | 0.4 | 0.6 | 1.4 | 2.0 | 1.9 | 1.9 | 1.8 | 2.2 | 1.9 | 1.8 |
| 5–14 years..... | 0.4 | 0.4 | 0.5 | 0.9 | 1.1 | 0.9 | 0.8 | 1.0 | 1.0 | 1.1 |
| 15–24 years..... | 3.7 | 4.4 | 7.9 | 15.5 | 11.0 | 12.2 | 11.0 | 11.2 | 12.3 | 15.4 |
| 25–34 years..... | 5.4 | 6.2 | 13.0 | 18.9 | 14.0 | 14.8 | 13.4 | 13.5 | 14.0 | 15.1 |
| 35–44 years..... | 6.4 | 5.5 | 11.0 | 15.5 | 11.5 | 11.7 | 10.3 | 10.5 | 10.6 | 11.4 |
| 45–54 years..... | 5.5 | 5.0 | 9.0 | 11.9 | 8.6 | 8.7 | 8.4 | 7.7 | 8.6 | 8.3 |
| 55–64 years..... | 4.4 | 4.3 | 7.7 | 7.8 | 6.3 | 6.0 | 6.4 | 6.1 | 5.7 | 5.5 |
| 65–74 years..... | 4.1 | 3.4 | 5.6 | 6.9 | 4.5 | 4.4 | 4.3 | 4.2 | 4.0 | 4.1 |
| 75–84 years..... | 3.5 | 2.7 | 5.1 | 6.3 | 4.5 | 4.6 | 4.9 | 4.3 | 3.9 | 3.9 |
| 85 years and over..... | 1.8 | 2.7 | 6.4 | 6.4 | 3.9 | 4.4 | 5.4 | 5.2 | 5.2 | 4.9 |
| Black male | | | | | | | | | | |
| All ages, age adjusted..... | 51.1 | 44.9 | 82.1 | 71.9 | 50.2 | 56.3 | 54.2 | 58.6 | 61.9 | 68.7 |
| All ages, crude..... | 47.3 | 36.6 | 67.6 | 66.6 | 49.0 | 55.8 | 54.2 | 59.1 | 62.3 | 69.2 |
| Under 1 year..... | --- | 10.3 | 14.3 | 18.6 | 16.7 | 23.2 | 19.5 | 19.5 | 21.9 | 21.4 |
| 1–4 years..... | --- | 1.7 | 5.1 | 7.2 | 6.6 | 9.5 | 4.9 | 7.6 | 8.0 | 7.6 |
| 5–14 years..... | 1.8 | 1.4 | 4.2 | 2.9 | 3.3 | 3.3 | 4.5 | 4.3 | 5.1 | 5.1 |
| 15–24 years..... | 58.9 | 46.4 | 102.5 | 84.3 | 65.9 | 78.9 | 85.3 | 101.4 | 114.2 | 138.3 |
| 25–34 years..... | 110.5 | 92.0 | 158.5 | 145.1 | 95.6 | 109.6 | 100.6 | 110.9 | 114.9 | 125.4 |
| 35–44 years..... | 83.7 | 77.5 | 126.2 | 110.3 | 74.9 | 77.7 | 76.3 | 76.9 | 75.9 | 82.3 |
| 45–54 years..... | 54.6 | 54.8 | 100.5 | 83.8 | 51.4 | 56.8 | 46.5 | 45.8 | 46.7 | 47.7 |
| 55–64 years..... | 35.7 | 31.8 | 59.8 | 55.6 | 40.0 | 37.9 | 35.5 | 31.9 | 33.4 | 34.0 |
| 65–74 years..... | 18.7 | 19.1 | 40.6 | 33.9 | 29.2 | 32.1 | 30.4 | 28.7 | 29.2 | 24.3 |
| 75–84 years..... | --- | 16.1 | 19.0 | 27.6 | 21.4 | 27.9 | 29.6 | 30.6 | 28.7 | 29.2 |
| 85 years and over..... | --- | *10.3 | *19.6 | *17.0 | *17.7 | *27.0 | 31.3 | 33.8 | 37.9 | *27.2 |
| White female | | | | | | | | | | |
| All ages, age adjusted..... | 1.4 | 1.5 | 2.2 | 3.2 | 2.9 | 2.9 | 2.9 | 2.9 | 2.8 | 2.8 |
| All ages, crude..... | 1.4 | 1.4 | 2.1 | 3.2 | 2.9 | 3.0 | 3.0 | 2.9 | 2.8 | 2.8 |
| Under 1 year..... | 3.9 | 3.5 | 2.9 | 4.3 | 4.3 | 5.2 | 4.3 | 6.2 | 5.8 | 5.1 |
| 1–4 years..... | 0.6 | 0.5 | 1.2 | 1.5 | 1.7 | 1.4 | 1.6 | 1.6 | 1.5 | 1.4 |
| 5–14 years..... | 0.4 | 0.3 | 0.5 | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.8 |
| 15–24 years..... | 1.3 | 1.5 | 2.7 | 4.7 | 3.6 | 4.3 | 3.8 | 3.9 | 3.8 | 4.0 |
| 25–34 years..... | 1.9 | 2.0 | 3.4 | 4.3 | 4.4 | 4.4 | 4.7 | 4.5 | 4.2 | 4.3 |
| 35–44 years..... | 2.2 | 2.2 | 3.2 | 4.1 | 3.6 | 3.5 | 3.6 | 3.3 | 3.3 | 3.2 |
| 45–54 years..... | 1.6 | 1.9 | 2.2 | 3.0 | 2.9 | 2.8 | 2.7 | 2.5 | 2.6 | 2.6 |
| 55–64 years..... | 1.3 | 1.5 | 2.0 | 2.1 | 2.3 | 2.0 | 1.9 | 2.0 | 1.7 | 1.8 |
| 65–74 years..... | 1.1 | 1.1 | 1.7 | 2.5 | 2.2 | 2.2 | 2.4 | 2.3 | 2.1 | 1.8 |
| 75–84 years..... | 1.2 | 1.2 | 2.5 | 3.3 | 3.1 | 3.0 | 3.1 | 2.9 | 2.6 | 2.8 |
| 85 years and over..... | 1.9 | 1.5 | 1.9 | 4.0 | 3.2 | 3.3 | 3.8 | 3.0 | 2.0 | 2.5 |

See footnotes at end of table.

**Table 43 (page 2 of 2). Death rates for homicide and legal intervention, according to sex, race, and age:
United States, selected years 1950–90**

[Data are based on the National Vital Statistics System]

| Sex, race, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | | |
|-----------------------------|-------------------|-------------------|--|------|-------|-------|-------|------|------|------|--|--|
| Black female | | | Deaths per 100,000 resident population | | | | | | | | | |
| All ages, age adjusted..... | 11.7 | 11.8 | 15.0 | 13.7 | 10.9 | 11.9 | 12.5 | 12.8 | 12.7 | 13.0 | | |
| All ages, crude | 11.5 | 10.4 | 13.3 | 13.5 | 11.1 | 12.2 | 12.7 | 13.3 | 13.1 | 13.5 | | |
| Under 1 year | --- | 13.8 | 10.7 | 12.8 | 10.7 | 17.5 | 18.9 | 23.7 | 23.6 | 22.8 | | |
| 1–4 years..... | --- | *1.7 | 6.3 | 6.4 | 6.3 | 6.8 | 7.3 | 6.3 | 7.3 | 7.2 | | |
| 5–14 years..... | 1.2 | 1.0 | 2.0 | 2.2 | 2.0 | 2.4 | 2.0 | 3.2 | 3.0 | 3.6 | | |
| 15–24 years | 16.5 | 11.9 | 17.7 | 18.4 | 14.2 | 16.3 | 17.8 | 17.5 | 17.4 | 18.9 | | |
| 25–34 years | 26.6 | 24.9 | 25.6 | 25.8 | 20.0 | 22.1 | 22.7 | 25.8 | 23.5 | 25.3 | | |
| 35–44 years..... | 17.8 | 20.5 | 25.1 | 17.7 | 14.7 | 14.7 | 14.3 | 14.4 | 14.6 | 15.6 | | |
| 45–54 years | 8.5 | 12.7 | 17.5 | 12.5 | 9.2 | 8.8 | 10.9 | 8.0 | 8.7 | 7.3 | | |
| 55–64 years | 3.6 | 6.8 | 8.1 | 8.9 | 6.5 | 6.9 | 7.9 | 7.1 | 8.4 | 5.6 | | |
| 65–74 years | 3.4 | 3.3 | 7.7 | 8.6 | 7.3 | 8.9 | 7.0 | 9.3 | 8.4 | 6.8 | | |
| 75–84 years | --- | *2.5 | *5.7 | 6.7 | 7.4 | 8.3 | 10.0 | 9.5 | 9.5 | 11.3 | | |
| 85 years and over..... | --- | *2.6 | *9.8 | *8.5 | *12.0 | *13.8 | *11.1 | 13.4 | 16.3 | 19.2 | | |

¹Includes deaths of nonresidents of the United States.

*Based on fewer than 20 deaths.

NOTES: For data years shown, the code numbers for cause of death are based on the then current International Classification of Diseases, which are described in Appendix II, tables IV and V. Data for the 1980's have been revised based on intercensal population estimates and differ from previous editions of Health, United States. See Appendix I, Department of Commerce.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics; Vital Statistics of the United States, Vol. II, Mortality, Part A, for data years 1950–90. Public Health Service. Washington. U.S. Government Printing Office; Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics and from table 1.

Table 44 (page 1 of 2). Death rates for suicide, according to sex, race, and age: United States, selected years 1950–90

[Data are based on the National Vital Statistics System]

| Sex, race, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|--|-------------------|-------------------|------|-------|------|-------|-------|-------|-------|-------|
| Deaths per 100,000 resident population | | | | | | | | | | |
| All races | | | | | | | | | | |
| All ages, age adjusted..... | 11.0 | 10.6 | 11.8 | 11.4 | 11.5 | 11.9 | 11.7 | 11.5 | 11.3 | 11.5 |
| All ages, crude..... | 11.4 | 10.6 | 11.6 | 11.9 | 12.4 | 12.9 | 12.7 | 12.4 | 12.2 | 12.4 |
| Under 1 year..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1–4 years..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 5–14 years..... | 0.2 | 0.3 | 0.3 | 0.4 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.8 |
| 15–24 years..... | 4.5 | 5.2 | 8.8 | 12.3 | 12.8 | 12.9 | 12.7 | 12.9 | 13.0 | 13.2 |
| 25–34 years..... | 9.1 | 10.0 | 14.1 | 16.0 | 15.3 | 15.8 | 15.5 | 15.6 | 15.2 | 15.2 |
| 35–44 years..... | 14.3 | 14.2 | 16.9 | 15.4 | 14.6 | 15.2 | 15.0 | 14.8 | 14.6 | 15.3 |
| 45–54 years..... | 20.9 | 20.7 | 20.0 | 15.9 | 15.7 | 16.5 | 16.1 | 14.7 | 14.8 | 14.8 |
| 55–64 years..... | 27.0 | 23.7 | 21.4 | 15.9 | 16.8 | 17.2 | 16.8 | 15.8 | 15.7 | 16.0 |
| 65–74 years..... | 29.3 | 23.0 | 20.8 | 16.9 | 18.7 | 19.9 | 19.7 | 18.7 | 18.3 | 17.9 |
| 75–84 years..... | 31.1 | 27.9 | 21.2 | 19.1 | 23.9 | 25.0 | 25.6 | 25.6 | 22.9 | 24.9 |
| 85 years and over..... | 28.8 | 26.0 | 19.0 | 19.2 | 19.4 | 21.1 | 22.5 | 21.0 | 23.4 | 22.2 |
| White male | | | | | | | | | | |
| All ages, age adjusted..... | 18.1 | 17.5 | 18.2 | 18.9 | 19.9 | 20.6 | 20.2 | 19.9 | 19.7 | 20.1 |
| All ages, crude..... | 19.0 | 17.6 | 18.0 | 19.9 | 21.6 | 22.4 | 22.2 | 21.8 | 21.5 | 22.0 |
| Under 1 year..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1–4 years..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 5–14 years..... | 0.3 | 0.5 | 0.5 | 0.7 | 1.3 | 1.2 | 1.2 | 1.1 | 1.1 | 1.1 |
| 15–24 years..... | 6.6 | 8.6 | 13.9 | 21.4 | 22.3 | 23.1 | 22.2 | 22.7 | 22.5 | 23.2 |
| 25–34 years..... | 13.8 | 14.9 | 19.9 | 25.6 | 25.6 | 26.8 | 26.0 | 26.1 | 25.5 | 25.6 |
| 35–44 years..... | 22.4 | 21.9 | 23.3 | 23.5 | 23.7 | 24.1 | 24.1 | 24.3 | 24.1 | 25.3 |
| 45–54 years..... | 34.1 | 33.7 | 29.5 | 24.2 | 25.2 | 26.4 | 25.6 | 23.4 | 24.4 | 24.8 |
| 55–64 years..... | 45.9 | 40.2 | 35.0 | 25.8 | 28.8 | 28.9 | 28.9 | 27.3 | 26.9 | 27.5 |
| 65–74 years..... | 53.2 | 42.0 | 38.7 | 32.5 | 35.8 | 38.2 | 37.6 | 36.2 | 36.0 | 34.2 |
| 75–84 years..... | 61.9 | 55.7 | 45.5 | 45.5 | 57.0 | 58.8 | 60.9 | 61.4 | 55.3 | 60.2 |
| 85 years and over..... | 61.9 | 61.3 | 45.8 | 52.8 | 60.9 | 66.5 | 72.1 | 66.5 | 72.9 | 70.3 |
| Black male | | | | | | | | | | |
| All ages, age adjusted..... | 7.0 | 7.8 | 9.9 | 11.1 | 11.5 | 11.6 | 12.1 | 11.9 | 12.6 | 12.4 |
| All ages, crude..... | 6.3 | 6.4 | 8.0 | 10.3 | 11.0 | 11.2 | 11.8 | 11.7 | 12.4 | 12.0 |
| Under 1 year..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1–4 years..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 5–14 years..... | *0.1 | *0.1 | *0.1 | *0.3 | *0.7 | 0.8 | 0.8 | *0.6 | 0.9 | 0.8 |
| 15–24 years..... | 4.9 | 4.1 | 10.5 | 12.3 | 13.3 | 11.4 | 12.9 | 14.5 | 16.6 | 15.1 |
| 25–34 years..... | 9.3 | 12.4 | 19.2 | 21.8 | 19.9 | 21.6 | 21.5 | 22.5 | 22.5 | 21.9 |
| 35–44 years..... | 10.4 | 12.8 | 12.6 | 15.6 | 14.6 | 17.1 | 17.4 | 15.9 | 17.4 | 16.9 |
| 45–54 years..... | 10.4 | 10.8 | 13.8 | 12.0 | 13.6 | 12.9 | 13.1 | 11.8 | 11.1 | 14.8 |
| 55–64 years..... | 16.5 | 16.2 | 10.6 | 11.7 | 12.2 | 10.6 | 11.1 | 11.6 | 11.5 | 10.8 |
| 65–74 years..... | 10.0 | 11.3 | 8.7 | 11.1 | 16.7 | 17.3 | 19.1 | 14.1 | 17.1 | 14.7 |
| 75–84 years..... | --- | 6.6 | 8.9 | 10.5 | 15.6 | 16.0 | 21.0 | 17.7 | 14.9 | 14.4 |
| 85 years and over..... | --- | 6.9 | *8.7 | *18.9 | *8.1 | *19.0 | *14.1 | *10.8 | *24.2 | *19.6 |
| White female | | | | | | | | | | |
| All ages, age adjusted..... | 5.3 | 5.3 | 7.2 | 5.7 | 5.3 | 5.5 | 5.3 | 5.1 | 4.8 | 4.8 |
| All ages, crude..... | 5.5 | 5.3 | 7.1 | 5.9 | 5.6 | 5.9 | 5.8 | 5.5 | 5.3 | 5.3 |
| Under 1 year..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1–4 years..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 5–14 years..... | *0.1 | *0.1 | 0.1 | 0.2 | 0.5 | 0.3 | 0.3 | 0.4 | 0.3 | 0.4 |
| 15–24 years..... | 2.7 | 2.3 | 4.2 | 4.6 | 4.7 | 4.7 | 4.6 | 4.5 | 4.3 | 4.2 |
| 25–34 years..... | 5.2 | 5.8 | 9.0 | 7.5 | 6.4 | 6.3 | 6.4 | 6.2 | 6.0 | 6.0 |
| 35–44 years..... | 8.2 | 8.1 | 13.0 | 9.1 | 7.7 | 8.4 | 7.9 | 7.5 | 7.2 | 7.4 |
| 45–54 years..... | 10.5 | 10.9 | 13.5 | 10.2 | 9.1 | 9.7 | 9.4 | 8.7 | 8.1 | 7.5 |
| 55–64 years..... | 10.7 | 10.9 | 12.3 | 9.1 | 8.4 | 9.1 | 8.4 | 8.0 | 8.0 | 8.0 |
| 65–74 years..... | 10.6 | 8.8 | 9.6 | 7.0 | 7.3 | 7.7 | 7.6 | 7.3 | 6.4 | 7.2 |
| 75–84 years..... | 8.4 | 9.2 | 7.2 | 5.7 | 7.0 | 7.9 | 7.4 | 7.2 | 6.1 | 6.7 |
| 85 years and over..... | 8.9 | 6.1 | 5.8 | 5.8 | 4.8 | 5.0 | 4.8 | 5.4 | 6.3 | 5.4 |

See footnotes at end of table.

Table 44 (page 2 of 2). Death rates for suicide, according to sex, race, and age: United States, selected years 1950–90

[Data are based on the National Vital Statistics System]

| Sex, race, and age | 1950 ¹ | 1960 ¹ | 1970 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|-----------------------------|--|-------------------|------|------------|------|------------|------------|------------|------|------|
| Black female | Deaths per 100,000 resident population | | | | | | | | | |
| All ages, age adjusted..... | 1.7 | 1.9 | 2.9 | 2.4 | 2.1 | 2.4 | 2.1 | 2.5 | 2.4 | 2.4 |
| All ages, crude | 1.5 | 1.6 | 2.6 | 2.2 | 2.1 | 2.3 | 2.1 | 2.4 | 2.4 | 2.3 |
| Under 1 year | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1–4 years..... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 5–14 years..... | * <u>—</u> | *0.0 | 0.2 | *0.1 | *0.2 | *0.2 | *0.2 | *0.5 | *0.3 | *0.3 |
| 15–24 years..... | *1.8 | *1.3 | 3.8 | 2.3 | 2.0 | 2.3 | 2.5 | 2.6 | 2.9 | 2.3 |
| 25–34 years..... | 2.6 | 3.0 | 5.7 | 4.1 | 3.0 | 3.8 | 4.0 | 3.9 | 3.8 | 3.7 |
| 35–44 years..... | 2.0 | 3.0 | 3.7 | 4.6 | 3.6 | 2.8 | 2.8 | 3.4 | 3.8 | 4.0 |
| 45–54 years..... | 3.5 | 3.1 | 3.7 | 2.8 | 3.3 | 3.3 | 2.2 | 4.0 | 3.2 | 3.2 |
| 55–64 years..... | *1.1 | 3.0 | *2.0 | 2.3 | 2.2 | 4.3 | 1.9 | 2.6 | 2.6 | 2.6 |
| 65–74 years..... | *1.9 | *2.3 | *2.9 | *1.7 | *2.0 | 2.8 | 2.6 | *2.1 | *2.2 | 2.6 |
| 75–84 years..... | --- | *1.3 | *1.7 | *1.4 | *4.4 | *2.5 | *2.2 | *1.3 | *1.6 | *0.6 |
| 85 years and over..... | --- | * <u>—</u> | *2.8 | * <u>—</u> | *1.5 | * <u>—</u> | * <u>—</u> | * <u>—</u> | *0.7 | *2.6 |

¹Includes deaths of nonresidents of the United States.

*Based on fewer than 20 deaths.

NOTES: For data years shown, the code numbers for cause of death are based on the then current International Classification of Diseases, which are described in Appendix II, tables IV and V. Data for the 1980's have been revised based on intercensal population estimates and differ from previous editions of Health, United States. See Appendix I, Department of Commerce.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Vital Statistics of the United States, Vol. II, Mortality, Part A, for data years 1950–90. Public Health Service. Washington. U.S. Government Printing Office; Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics and from table 1.

Table 45 (page 1 of 2). Death rates for firearm injuries, according to sex, race, and age: United States, selected years 1970–90

[Data are based on the National Vital Statistics System]

| Sex, race, and age | 1970 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|----------------------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| All races | Deaths per 100,000 resident population | | | | | | | | | | | |
| All ages, age adjusted | 14.0 | 14.8 | 14.6 | 13.9 | 12.9 | 12.8 | 13.3 | 13.3 | 13.0 | 13.4 | 13.7 | 14.6 |
| All ages, crude | 13.1 | 14.9 | 14.8 | 14.2 | 13.3 | 13.3 | 13.3 | 13.9 | 13.6 | 13.9 | 14.1 | 14.9 |
| Under 1 year. | *0.4 | *0.5 | *0.4 | *0.4 | *0.3 | *0.4 | *0.2 | *0.3 | *0.2 | *0.3 | *0.4 | *0.4 |
| 1-4 years | 1.0 | 0.7 | 0.7 | 0.7 | 0.5 | 0.6 | 0.7 | 0.6 | 0.5 | 0.6 | 0.7 | 0.6 |
| 5-14 years | 1.7 | 1.6 | 1.6 | 1.6 | 1.4 | 1.8 | 1.8 | 1.7 | 1.8 | 1.9 | 2.0 | 1.9 |
| 15-24 years | 15.5 | 20.6 | 19.9 | 18.4 | 16.9 | 16.9 | 17.2 | 18.9 | 18.7 | 20.6 | 22.6 | 25.8 |
| 25-34 years | 22.2 | 24.3 | 23.7 | 22.1 | 20.3 | 19.5 | 19.3 | 20.4 | 19.4 | 20.4 | 20.4 | 21.8 |
| 35-44 years | 19.6 | 20.0 | 19.7 | 18.8 | 16.8 | 16.4 | 16.0 | 16.2 | 15.6 | 15.8 | 15.5 | 16.3 |
| 45-54 years | 18.1 | 16.4 | 17.3 | 16.5 | 15.4 | 15.1 | 14.7 | 15.1 | 14.3 | 13.5 | 13.8 | 13.9 |
| 55-64 years | 17.0 | 13.9 | 14.8 | 14.3 | 14.0 | 14.2 | 13.9 | 13.8 | 13.8 | 13.3 | 13.1 | 13.3 |
| 65-74 years | 14.5 | 13.8 | 12.8 | 14.2 | 14.2 | 15.1 | 15.1 | 15.9 | 15.5 | 14.9 | 15.1 | 14.4 |
| 75-84 years | 13.4 | 13.4 | 13.4 | 15.1 | 15.7 | 16.2 | 17.7 | 18.5 | 19.2 | 19.3 | 17.5 | 19.4 |
| 85 years and over | 10.2 | 11.6 | 11.6 | 10.9 | 11.8 | 11.4 | 12.2 | 12.7 | 14.1 | 13.6 | 14.7 | 14.7 |
| White male | | | | | | | | | | | | |
| All ages, age adjusted | 18.2 | 21.1 | 21.0 | 20.5 | 19.4 | 19.6 | 19.4 | 20.0 | 19.2 | 19.3 | 19.5 | 20.5 |
| All ages, crude | 17.6 | 21.8 | 21.7 | 21.4 | 20.5 | 20.8 | 20.7 | 21.4 | 20.7 | 20.7 | 20.8 | 21.8 |
| Under 1 year. | *0.3 | *0.5 | *0.3 | *0.4 | *0.2 | *0.5 | *0.1 | *0.1 | *0.4 | *0.2 | *0.3 | *0.4 |
| 1-4 years | 0.8 | 0.7 | 0.7 | 0.8 | 0.6 | 0.8 | 0.6 | 0.5 | 0.5 | 0.6 | 0.7 | 0.6 |
| 5-14 years | 2.1 | 2.3 | 2.2 | 2.3 | 2.1 | 2.6 | 2.7 | 2.5 | 2.5 | 2.4 | 2.7 | 2.4 |
| 15-24 years | 16.9 | 28.4 | 27.2 | 25.7 | 23.4 | 23.8 | 24.1 | 25.6 | 23.9 | 25.3 | 26.5 | 29.5 |
| 25-34 years | 24.3 | 31.1 | 30.5 | 29.1 | 27.8 | 27.0 | 26.3 | 27.0 | 25.8 | 26.0 | 26.2 | 27.8 |
| 35-44 years | 24.1 | 27.1 | 27.2 | 26.5 | 24.3 | 23.5 | 23.3 | 23.2 | 22.1 | 22.5 | 22.2 | 23.3 |
| 45-54 years | 25.7 | 23.8 | 25.5 | 24.7 | 23.5 | 23.9 | 23.0 | 23.6 | 22.7 | 21.5 | 22.4 | 22.0 |
| 55-64 years | 29.5 | 22.7 | 24.3 | 24.2 | 23.6 | 24.7 | 24.2 | 24.5 | 24.6 | 23.6 | 22.7 | 23.7 |
| 65-74 years | 29.1 | 27.8 | 25.6 | 28.3 | 28.3 | 31.1 | 30.5 | 32.0 | 31.3 | 30.3 | 30.7 | 29.0 |
| 75-84 years | 32.0 | 34.0 | 33.4 | 38.8 | 40.4 | 41.7 | 45.0 | 47.6 | 48.8 | 49.3 | 44.7 | 49.8 |
| 85 years and over | 27.7 | 36.1 | 38.0 | 36.9 | 40.6 | 38.5 | 40.8 | 44.6 | 47.7 | 46.2 | 51.6 | 52.4 |
| Black male | | | | | | | | | | | | |
| All ages, age adjusted | 73.4 | 61.8 | 58.7 | 51.7 | 44.6 | 42.6 | 42.2 | 47.1 | 46.4 | 51.0 | 55.0 | 61.5 |
| All ages, crude | 60.8 | 57.7 | 55.4 | 49.3 | 42.9 | 41.2 | 41.3 | 46.9 | 46.5 | 51.7 | 55.4 | 61.9 |
| Under 1 year. | *2.0 | *0.7 | *1.1 | *1.5 | *0.7 | *1.1 | *0.4 | *1.1 | *— | *0.7 | *1.3 | *0.9 |
| 1-4 years | 3.3 | 2.1 | 2.3 | 2.1 | *0.9 | *0.8 | 2.2 | 1.9 | *1.6 | 1.8 | *1.7 | *1.2 |
| 5-14 years | 6.1 | 3.3 | 4.0 | 2.6 | 2.5 | 2.6 | 2.8 | 3.0 | 4.3 | 5.0 | 5.4 | 5.8 |
| 15-24 years | 97.3 | 77.9 | 72.0 | 64.1 | 59.1 | 55.8 | 61.3 | 72.1 | 81.3 | 99.0 | 115.3 | 138.0 |
| 25-34 years | 145.6 | 128.4 | 119.7 | 106.8 | 86.3 | 82.8 | 79.8 | 93.1 | 84.8 | 97.1 | 98.8 | 108.6 |
| 35-44 years | 104.2 | 92.3 | 86.7 | 74.7 | 65.7 | 64.0 | 59.2 | 62.5 | 62.1 | 60.7 | 60.9 | 66.1 |
| 45-54 years | 83.9 | 63.4 | 62.7 | 56.4 | 46.0 | 43.0 | 40.8 | 45.7 | 36.7 | 34.4 | 36.6 | 39.1 |
| 55-64 years | 54.3 | 46.5 | 47.6 | 39.1 | 37.3 | 34.4 | 32.1 | 27.1 | 27.0 | 25.9 | 27.9 | 28.4 |
| 65-74 years | 36.0 | 31.2 | 28.5 | 31.4 | 27.1 | 27.0 | 29.2 | 31.6 | 28.0 | 25.1 | 29.1 | 24.8 |
| 75-84 years | 20.2 | 26.8 | 35.3 | 23.7 | 26.7 | 26.3 | 23.0 | 25.2 | 27.7 | 26.9 | 24.7 | 22.4 |
| 85 years and over | *15.2 | *26.4 | *19.6 | *20.7 | *21.7 | *14.8 | *12.9 | *23.8 | *17.2 | *13.8 | 31.8 | *22.6 |
| White female | | | | | | | | | | | | |
| All ages, age adjusted | 4.0 | 4.2 | 4.4 | 4.3 | 4.0 | 3.9 | 3.9 | 3.9 | 3.8 | 3.7 | 3.6 | 3.7 |
| All ages, crude | 3.7 | 4.1 | 4.4 | 4.3 | 4.0 | 4.0 | 4.0 | 3.9 | 3.9 | 3.8 | 3.7 | 3.8 |
| Under 1 year. | *0.2 | *0.4 | *0.3 | *0.3 | *0.2 | *0.1 | *0.3 | *0.3 | *0.1 | *0.1 | *0.3 | *0.3 |
| 1-4 years | 0.6 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.5 | 0.4 | *0.3 | 0.4 | 0.4 | *0.3 |
| 5-14 years | 0.6 | 0.7 | 0.8 | 0.9 | 0.6 | 0.8 | 0.7 | 0.6 | 0.8 | 0.7 | 0.7 | 0.7 |
| 15-24 years | 3.4 | 5.1 | 5.4 | 5.1 | 4.7 | 5.0 | 4.4 | 4.7 | 4.3 | 4.1 | 4.3 | 4.8 |
| 25-34 years | 6.7 | 6.0 | 6.6 | 6.2 | 5.9 | 5.3 | 5.7 | 5.5 | 5.6 | 5.5 | 5.2 | 5.5 |
| 35-44 years | 7.1 | 6.6 | 6.5 | 6.6 | 5.7 | 5.7 | 5.5 | 5.4 | 5.3 | 5.2 | 4.9 | 5.0 |
| 45-54 years | 5.7 | 5.9 | 6.4 | 6.1 | 5.7 | 5.4 | 5.4 | 5.4 | 5.3 | 5.1 | 4.7 | 4.9 |
| 55-64 years | 4.0 | 4.4 | 4.7 | 4.7 | 4.9 | 4.5 | 4.7 | 4.5 | 4.4 | 4.3 | 4.4 | 4.1 |
| 65-74 years | 2.7 | 3.1 | 2.9 | 3.5 | 3.8 | 3.4 | 3.7 | 3.8 | 3.9 | 3.7 | 3.3 | 3.7 |
| 75-84 years | 1.7 | 1.7 | 1.7 | 2.0 | 2.2 | 2.5 | 2.7 | 2.7 | 3.1 | 3.1 | 2.7 | 3.0 |
| 85 years and over | *0.8 | *1.3 | *1.1 | *0.7 | *0.9 | 1.5 | 1.9 | *0.9 | 1.9 | 2.1 | 1.2 | 1.2 |

See footnotes at end of table.

Table 45 (page 2 of 2). Death rates for firearm injuries, according to sex, race, and age: United States, selected years 1970–90

[Data are based on the National Vital Statistics System]

| Sex, race, and age | 1970 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|----------------------------------|--|------|------|------|------|------|------|------|------|------|------|------|
| Black female | Deaths per 100,000 resident population | | | | | | | | | | | |
| All ages, age adjusted | 11.4 | 9.1 | 8.7 | 7.1 | 6.5 | 6.5 | 6.6 | 7.0 | 7.3 | 7.6 | 7.4 | 7.8 |
| All ages, crude | 10.0 | 8.8 | 8.5 | 6.9 | 6.4 | 6.4 | 6.5 | 7.1 | 7.3 | 7.7 | 7.4 | 7.8 |
| Under 1 year | *0.8 | *0.8 | *1.5 | *0.4 | *0.4 | *0.8 | *0.7 | *0.4 | *0.4 | *1.0 | *0.6 | *1.0 |
| 1–4 years | 2.5 | *0.9 | *1.1 | *0.5 | *0.8 | *0.8 | *0.9 | *0.9 | *0.8 | *0.9 | *1.2 | *1.1 |
| 5–14 years | 1.6 | 1.1 | 1.4 | 0.9 | 1.0 | 1.4 | 1.0 | 1.5 | 1.0 | 2.2 | 1.6 | 2.4 |
| 15–24 years | 15.2 | 12.3 | 12.2 | 9.1 | 9.2 | 8.8 | 8.3 | 10.0 | 11.6 | 11.2 | 12.6 | 13.3 |
| 25–34 years | 21.2 | 18.3 | 15.4 | 13.5 | 12.4 | 12.0 | 12.8 | 13.8 | 14.0 | 14.7 | 13.2 | 14.6 |
| 35–44 years | 17.4 | 12.8 | 12.2 | 11.6 | 10.0 | 9.7 | 9.4 | 9.6 | 9.1 | 10.9 | 9.5 | 9.7 |
| 45–54 years | 13.2 | 9.1 | 8.6 | 7.0 | 7.1 | 5.5 | 7.4 | 5.9 | 7.0 | 5.8 | 5.7 | 5.5 |
| 55–64 years | 6.2 | 7.1 | 8.3 | 5.0 | 3.2 | 5.2 | 3.9 | 4.8 | 4.4 | 4.4 | 5.2 | 3.9 |
| 65–74 years | 4.6 | 3.9 | 5.0 | 3.6 | 2.5 | 3.9 | 2.9 | 4.0 | 3.9 | 3.7 | 3.2 | 3.2 |
| 75–84 years | *2.6 | *1.9 | *2.1 | *2.8 | *1.7 | *1.7 | 6.0 | *3.4 | *3.5 | *1.3 | *2.7 | *3.2 |
| 85 years and over | *7.0 | *1.9 | *1.8 | *1.7 | *0.8 | *1.6 | *1.5 | *1.4 | *2.8 | *2.7 | *2.6 | *2.6 |

*Based on fewer than 20 deaths.

NOTES: International Classification of Diseases code numbers for causes of death included in firearm injuries are described in Appendix II, tables IV and V. Data for the 1980's are based on intercensal population estimates. See Appendix I, Department of Commerce.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics: Data computed by the Division of Analysis from data compiled by the Division of Vital Statistics and from table 1.

Table 46. Deaths for selected occupational diseases for males, according to age: United States, selected years 1970–90

[Data are based on the National Vital Statistics System]

| Age and cause of death | 1970 | 1975 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|--|-------------------------------|------|------|------|-------|------|------|------|------|------|------|------|------|------|
| 25 years and over | Number of deaths ¹ | | | | | | | | | | | | | |
| Malignant neoplasm of peritoneum and pleura (mesothelioma) | 602 | 591 | 559 | 552 | 556 | 576 | 584 | 584 | 571 | 564 | 575 | 556 | 565 | 629 |
| Coalworkers' pneumoconiosis. | 1,155 | 973 | 918 | 977 | 1,053 | 954 | 926 | 923 | 947 | 882 | 823 | 757 | 725 | 727 |
| Asbestosis | 25 | 43 | 86 | 96 | 98 | 99 | 128 | 131 | 130 | 180 | 195 | 206 | 261 | 282 |
| Silicosis | 351 | 243 | 220 | 202 | 165 | 176 | 149 | 160 | 138 | 135 | 153 | 128 | 130 | 146 |
| 25–64 years | Number of deaths ¹ | | | | | | | | | | | | | |
| Malignant neoplasm of peritoneum and pleura (mesothelioma) | 308 | 280 | 246 | 241 | 229 | 234 | 211 | 211 | 210 | 200 | 196 | 187 | 179 | 199 |
| Coalworkers' pneumoconiosis. | 294 | 188 | 130 | 136 | 116 | 116 | 88 | 97 | 89 | 71 | 71 | 56 | 50 | 49 |
| Asbestosis | 17 | 22 | 29 | 30 | 21 | 26 | 30 | 25 | 29 | 37 | 32 | 38 | 31 | 50 |
| Silicosis | 90 | 64 | 51 | 49 | 44 | 42 | 37 | 34 | 30 | 22 | 32 | 26 | 21 | 35 |
| 65 years and over | Number of deaths ¹ | | | | | | | | | | | | | |
| Malignant neoplasm of peritoneum and pleura (mesothelioma) | 294 | 311 | 313 | 311 | 327 | 342 | 373 | 373 | 361 | 364 | 379 | 369 | 386 | 430 |
| Coalworkers' pneumoconiosis. | 861 | 785 | 788 | 841 | 937 | 838 | 838 | 826 | 858 | 811 | 752 | 701 | 675 | 678 |
| Asbestosis | 8 | 21 | 57 | 66 | 77 | 73 | 98 | 106 | 101 | 143 | 163 | 168 | 230 | 232 |
| Silicosis | 261 | 179 | 169 | 153 | 121 | 134 | 112 | 126 | 108 | 113 | 121 | 102 | 109 | 111 |

¹This table classifies deaths according to underlying cause. Additional deaths for which occupational disease are classified as nonunderlying causes can be identified from multiple cause of death data from the National Vital Statistics System. The numbers of such deaths are shown below for men 25 years of age and over.

| Nonunderlying cause of death | 1980 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Malignant neoplasm of peritoneum and pleura (mesothelioma) | 135 | 115 | 124 | 102 | 106 | 111 | 104 | 83 | 105 |
| Coalworkers' pneumoconiosis | 1,587 | 1,758 | 1,742 | 1,652 | 1,536 | 1,419 | 1,445 | 1,402 | 1,248 |
| Asbestosis | 228 | 321 | 298 | 382 | 494 | 488 | 536 | 588 | 619 |
| Silicosis | 232 | 205 | 210 | 187 | 175 | 173 | 162 | 156 | 152 |

NOTES: Selection of occupational diseases based on definitions in D. Rutstein et al.: Sentinel health events (occupational): A basis for physician recognition and public health surveillance, Am. J. Public Health 73(9): 1054–1062, Sept. 1983. For data years shown, the code numbers for cause of death are based on the then current International Classification of Diseases, which are described in Appendix II, tables IV and V.

SOURCES: Data computed by the Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health from data compiled by National Center for Health Statistics, Division of Vital Statistics; Data computed by the Division of Epidemiology and Health Promotion from data compiled by the Division of Vital Statistics.

Table 47. Occupational injury deaths, according to industry: United States, 1980–89

[Data are based on the National Vital Statistics System]

| Industry | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Deaths per 100,000 workers ¹ | | | | | | | | | | |
| Total civilian work force | 8.9 | 8.6 | 7.8 | 7.2 | 7.1 | 7.0 | 6.1 | 6.2 | 5.9 | 5.6 |
| Agriculture, forestry, and fishing | 26.9 | 25.1 | 21.9 | 19.1 | 19.2 | 19.3 | 15.8 | 15.5 | 13.9 | 13.3 |
| Mining | 41.4 | 44.4 | 28.8 | 27.0 | 37.7 | 29.9 | 26.0 | 26.2 | 23.9 | 27.0 |
| Construction | 28.9 | 28.9 | 27.7 | 28.3 | 25.7 | 25.9 | 23.4 | 24.3 | 22.9 | 21.8 |
| Manufacturing | 4.8 | 4.6 | 4.5 | 4.3 | 4.5 | 4.3 | 4.2 | 4.4 | 4.2 | 4.1 |
| Transportation, communication, and public utilities | 29.3 | 27.8 | 25.0 | 22.6 | 24.7 | 24.6 | 21.1 | 19.8 | 20.3 | 19.3 |
| Wholesale trade | 3.2 | 3.0 | 2.5 | 2.7 | 2.2 | 2.2 | 2.0 | 2.1 | 2.3 | 1.7 |
| Retail trade | 4.0 | 3.8 | 3.6 | 3.2 | 2.6 | 2.9 | 2.3 | 2.4 | 2.4 | 2.2 |
| Finance, insurance, and real estate | 1.6 | 1.7 | 1.4 | 1.5 | 1.6 | 1.1 | 1.2 | 1.4 | 1.1 | 1.2 |
| Services | 3.9 | 3.3 | 3.4 | 3.1 | 2.8 | 2.8 | 2.4 | 2.3 | 2.6 | 2.2 |
| Public administration | 7.7 | 7.5 | 6.9 | 7.6 | 6.9 | 6.4 | 6.2 | 6.8 | 6.1 | 5.3 |
| Not classified | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Number of deaths | | | | | | | | | | |
| Total civilian work force | 7,405 | 7,136 | 6,459 | 5,856 | 6,162 | 6,250 | 5,672 | 5,884 | 5,751 | 5,714 |
| Agriculture, forestry, and fishing | 848 | 835 | 765 | 682 | 746 | 791 | 701 | 730 | 687 | 695 |
| Mining | 412 | 492 | 342 | 263 | 367 | 282 | 220 | 190 | 176 | 192 |
| Construction | 1,294 | 1,240 | 1,091 | 1,066 | 1,074 | 1,160 | 1,091 | 1,188 | 1,130 | 1,096 |
| Manufacturing | 1,014 | 940 | 882 | 780 | 878 | 834 | 802 | 831 | 810 | 791 |
| Transportation, communication, and public utilities | 1,355 | 1,281 | 1,159 | 1,027 | 1,155 | 1,184 | 1,032 | 1,013 | 1,068 | 1,046 |
| Wholesale trade | 167 | 159 | 131 | 140 | 118 | 122 | 113 | 120 | 135 | 107 |
| Retail trade | 595 | 576 | 544 | 481 | 423 | 489 | 407 | 449 | 443 | 429 |
| Finance, insurance, and real estate | 84 | 91 | 78 | 81 | 93 | 69 | 79 | 94 | 72 | 81 |
| Services | 663 | 593 | 629 | 588 | 561 | 603 | 554 | 563 | 642 | 607 |
| Public administration | 401 | 386 | 361 | 360 | 329 | 319 | 318 | 359 | 333 | 292 |
| Not classified | 572 | 543 | 477 | 388 | 418 | 397 | 355 | 347 | 255 | 378 |

¹Denominators for death rates are average annual employment (U.S. Bureau of Labor Statistics, Employment and Earnings, annual average supplements; Vol. 28-37:1, 1981-90).

NOTES: Includes deaths to United States residents, 16 years of age and over, that resulted from an "external" cause and the item "injury at work" was checked on the death certificate. Industry is coded based on Standard Industrial Classification Manual, 1987 Edition (see Appendix II, table VI). Some numbers in this table have been revised and differ from previous editions of Health, United States.

SOURCE: Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Safety Research: National Traumatic Occupational Fatalities (NTOF) surveillance system. Morgantown, WV. 1992.

Table 48. Provisional death rates for all causes, according to race, sex, and age: United States, 1989–91

[Data are based on a 10-percent sample of death certificates from the National Vital Statistics System]

| Sex and age | All races | | | White | | | Black | | |
|-----------------------------|--|----------|----------|----------|----------|----------|----------|----------|----------|
| | 1989 | 1990 | 1991 | 1989 | 1990 | 1991 | 1989 | 1990 | 1991 |
| Both sexes | Deaths per 100,000 resident population | | | | | | | | |
| All ages, age adjusted..... | 524.1 | 515.1 | 507.9 | 500.0 | 494.3 | 483.7 | 761.2 | 729.6 | 742.8 |
| All ages, crude..... | 868.1 | 861.9 | 853.9 | 893.3 | 891.6 | 880.1 | 848.1 | 820.4 | 835.4 |
| Under 1 year..... | 986.0 | 936.6 | 901.8 | 819.2 | 814.4 | 747.9 | 1,899.8 | 1,652.5 | 1,725.2 |
| 1–4 years..... | 43.8 | 44.2 | 46.7 | 39.0 | 40.0 | 40.3 | 69.6 | 66.9 | 81.1 |
| 5–14 years..... | 26.6 | 24.1 | 24.0 | 24.5 | 23.1 | 21.8 | 38.5 | 30.8 | 35.8 |
| 15–24 years..... | 103.5 | 104.1 | 107.1 | 95.8 | 95.1 | 96.1 | 150.1 | 161.8 | 176.2 |
| 25–34 years..... | 139.7 | 139.6 | 137.4 | 119.1 | 120.6 | 117.6 | 286.5 | 276.1 | 273.1 |
| 35–44 years..... | 221.0 | 221.1 | 222.7 | 191.1 | 192.4 | 191.7 | 485.4 | 471.4 | 484.9 |
| 45–54 years..... | 479.1 | 463.1 | 458.2 | 434.1 | 425.3 | 416.6 | 904.1 | 832.3 | 861.9 |
| 55–64 years..... | 1,210.0 | 1,175.6 | 1,162.4 | 1,153.3 | 1,125.2 | 1,105.1 | 1,825.2 | 1,767.5 | 1,779.5 |
| 65–74 years..... | 2,628.2 | 2,607.4 | 2,568.7 | 2,573.2 | 2,565.7 | 2,512.5 | 3,504.1 | 3,319.7 | 3,413.4 |
| 75–84 years..... | 6,167.5 | 6,084.5 | 5,932.3 | 6,155.4 | 6,081.0 | 5,929.6 | 6,970.4 | 6,873.2 | 6,736.1 |
| 85 years and over..... | 15,083.2 | 14,784.4 | 14,395.6 | 15,362.5 | 15,087.7 | 14,673.0 | 13,110.2 | 12,707.3 | 12,593.0 |
| Male | | | | | | | | | |
| All ages, age adjusted..... | 679.6 | 668.9 | 660.1 | 647.9 | 642.7 | 629.1 | 1,010.0 | 956.9 | 977.7 |
| All ages, crude..... | 922.0 | 917.2 | 909.1 | 934.6 | 937.2 | 924.3 | 984.5 | 941.5 | 961.5 |
| Under 1 year..... | 1,076.7 | 1,037.5 | 1,007.2 | 910.0 | 908.8 | 845.5 | 1,993.6 | 1,796.4 | 1,899.4 |
| 1–4 years..... | 46.6 | 48.7 | 48.9 | 42.0 | 43.9 | 43.1 | 73.6 | 71.7 | 82.1 |
| 5–14 years..... | 32.3 | 29.1 | 28.8 | 30.3 | 27.7 | 26.2 | 44.5 | 38.4 | 43.5 |
| 15–24 years..... | 152.0 | 156.1 | 160.8 | 139.0 | 140.7 | 142.7 | 235.7 | 258.6 | 277.1 |
| 25–34 years..... | 203.3 | 205.6 | 201.1 | 173.4 | 178.9 | 171.6 | 432.9 | 414.8 | 413.5 |
| 35–44 years..... | 301.7 | 306.1 | 311.3 | 260.4 | 265.6 | 268.7 | 701.2 | 688.0 | 706.7 |
| 45–54 years..... | 628.2 | 600.9 | 598.2 | 563.8 | 547.1 | 541.4 | 1,288.9 | 1,181.1 | 1,202.8 |
| 55–64 years..... | 1,569.8 | 1,507.5 | 1,503.6 | 1,497.5 | 1,454.8 | 1,431.0 | 2,371.3 | 2,180.2 | 2,323.2 |
| 65–74 years..... | 3,414.6 | 3,358.5 | 3,307.3 | 3,348.0 | 3,316.2 | 3,246.4 | 4,516.3 | 4,172.9 | 4,285.5 |
| 75–84 years..... | 7,950.4 | 7,950.2 | 7,663.1 | 7,943.6 | 7,976.4 | 7,688.8 | 8,902.9 | 8,731.4 | 8,358.6 |
| 85 years and over..... | 17,695.3 | 17,521.6 | 17,150.9 | 18,110.4 | 17,973.3 | 17,620.4 | 14,958.3 | 14,743.2 | 14,324.7 |
| Female | | | | | | | | | |
| All ages, age adjusted..... | 396.4 | 389.0 | 382.1 | 378.8 | 372.8 | 363.8 | 564.6 | 549.4 | 554.5 |
| All ages, crude..... | 816.9 | 809.3 | 801.6 | 853.8 | 847.9 | 837.6 | 725.0 | 711.0 | 721.3 |
| Under 1 year..... | 890.9 | 831.2 | 790.5 | 722.9 | 715.0 | 645.0 | 1,803.3 | 1,504.6 | 1,545.7 |
| 1–4 years..... | 40.8 | 39.4 | 44.5 | 35.9 | 35.9 | 37.4 | 65.4 | 62.0 | 80.0 |
| 5–14 years..... | 20.6 | 18.9 | 19.0 | 18.3 | 18.2 | 17.1 | 32.3 | 23.0 | 27.9 |
| 15–24 years..... | 53.9 | 50.8 | 52.2 | 51.4 | 48.2 | 48.2 | 66.5 | 67.0 | 77.3 |
| 25–34 years..... | 75.9 | 73.4 | 73.6 | 63.8 | 61.1 | 62.5 | 155.4 | 152.0 | 147.3 |
| 35–44 years..... | 142.2 | 138.1 | 135.8 | 122.0 | 119.2 | 114.5 | 304.6 | 289.5 | 297.9 |
| 45–54 years..... | 337.9 | 332.6 | 325.6 | 308.7 | 307.5 | 295.9 | 593.2 | 550.8 | 587.3 |
| 55–64 years..... | 887.8 | 877.5 | 854.7 | 841.2 | 825.1 | 807.1 | 1,373.6 | 1,424.2 | 1,327.5 |
| 65–74 years..... | 1,997.1 | 2,002.1 | 1,971.7 | 1,946.8 | 1,956.9 | 1,915.4 | 2,744.7 | 2,673.9 | 2,749.5 |
| 75–84 years..... | 5,083.4 | 4,941.7 | 4,862.2 | 5,072.3 | 4,921.1 | 4,841.9 | 5,812.5 | 5,763.7 | 5,761.9 |
| 85 years and over..... | 14,070.3 | 13,727.5 | 13,328.4 | 14,317.0 | 13,993.7 | 13,552.9 | 12,224.2 | 11,831.4 | 11,856.4 |

NOTES: Before 1991 data include deaths of nonresidents of the United States. Starting in 1991 data exclude deaths of nonresidents of the United States. Provisional data for 1989–91 were calculated using 1980's-based postcensal population estimates. See Appendix I, National Center for Health Statistics and Department of Commerce.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Annual summary of births, marriages, divorces, and deaths, United States, 1990 and 1991. Monthly Vital Statistics Report. Vols. 39 and 40, No. 13. DHHS Pub. Nos. (PHS) 91-1120 and 92-1120. 1991 and 1992. Public Health Service, Hyattsville, Md.

Table 49. Provisional death rates for selected causes of death: United States, 1989–91

[Data are based on a 10-percent sample of death certificates from the National Vital Statistics System]

| Cause of death | Age-adjusted death rate | | | Crude death rate | | | Rank | | |
|--|-------------------------|-------|-------|------------------|-------|-------|------|------|------|
| | 1989 | 1990 | 1991 | 1989 | 1990 | 1991 | 1989 | 1990 | 1991 |
| Deaths per 100,000 resident population | | | | | | | | | |
| All causes | 524.1 | 515.1 | 507.9 | 868.1 | 861.9 | 853.9 | ... | ... | ... |
| Diseases of heart | 155.9 | 150.3 | 146.1 | 296.3 | 289.0 | 283.3 | 1 | 1 | 1 |
| Ischemic heart disease | 104.9 | 101.0 | 97.0 | 200.6 | 195.1 | 188.8 | ... | ... | ... |
| Cerebrovascular diseases | 28.5 | 27.6 | 26.5 | 59.4 | 57.9 | 56.8 | 3 | 3 | 3 |
| Malignant neoplasms | 133.7 | 133.0 | 132.6 | 200.3 | 201.7 | 202.9 | 2 | 2 | 2 |
| Respiratory system | 40.1 | 39.9 | 40.3 | 57.0 | 57.3 | 58.7 | ... | ... | ... |
| Breast ¹ | 23.4 | 23.6 | 22.8 | 34.1 | 34.9 | 34.1 | ... | ... | ... |
| Chronic obstructive pulmonary diseases | 19.4 | 19.7 | 19.4 | 34.0 | 35.5 | 35.2 | 5 | 5 | 5 |
| Pneumonia and influenza | 13.3 | 13.5 | 12.6 | 30.3 | 31.3 | 29.6 | 6 | 6 | 6 |
| Chronic liver disease and cirrhosis | 8.7 | 8.3 | 8.0 | 10.6 | 10.2 | 9.8 | 9 | 10 | 11 |
| Diabetes mellitus | 11.3 | 11.7 | 12.0 | 18.8 | 19.5 | 19.7 | 7 | 7 | 7 |
| Nephritis, nephrotic syndrome, and nephrosis | 4.4 | 4.2 | 4.3 | 8.6 | 8.3 | 8.7 | 12 | 12 | 12 |
| Septicemia | 4.1 | 4.2 | 4.1 | 7.7 | 7.9 | 7.7 | 14 | 13 | 13 |
| Atherosclerosis | 3.0 | 2.4 | 2.5 | 7.7 | 6.6 | 6.7 | 13 | 15 | 14 |
| Human immunodeficiency virus infection | 8.3 | 9.1 | 11.2 | 8.6 | 9.6 | 11.8 | 11 | 11 | 9 |
| Unintentional injuries | 33.5 | 32.7 | 31.7 | 38.2 | 37.3 | 36.2 | 4 | 4 | 4 |
| Motor vehicle crashes | 19.4 | 18.9 | 17.7 | 19.7 | 19.1 | 17.8 | ... | ... | ... |
| Suicide | 11.7 | 11.3 | 11.0 | 12.6 | 12.3 | 11.9 | 8 | 8 | 8 |
| Homicide and legal intervention | 9.4 | 10.6 | 11.3 | 9.3 | 10.2 | 10.8 | 10 | 9 | 10 |

¹Female only.

NOTES: Before 1991 data include deaths of nonresidents of the United States. Starting in 1991 data exclude deaths of nonresidents of the United States. Code numbers for cause of death are based on the International Classification of Diseases, Ninth Revision, described in Appendix II, table V. Categories for the coding and classification of human immunodeficiency virus infection were introduced in the United States beginning with data year 1987. Provisional data for 1989–91 were calculated using 1980's-based postcensal population estimates. See Appendix I, National Center for Health Statistics and Department of Commerce.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Annual summary of births, marriages, divorces, and deaths, United States, 1990 and 1991. Monthly Vital Statistics Report. Vols. 39 and 40, No. 13. DHHS Pub. Nos. (PHS) 91-1120 and 92-1120. 1991 and 1992. Public Health Service. Hyattsville, Md.

Table 50. Provisional death rates for the three leading causes of death, according to age: United States, 1989–91

[Data are based on a 10-percent sample of death certificates from the National Vital Statistics System]

| Cause of death and age | 1989 | 1990 | 1991 |
|-----------------------------|--|---------|---------|
| Diseases of heart | Deaths per 100,000 resident population | | |
| All ages, age adjusted..... | 155.9 | 150.3 | 146.1 |
| All ages, crude..... | 296.3 | 289.0 | 283.3 |
| Under 1 year..... | 18.8 | 17.9 | 20.3 |
| 1–14 years..... | 1.1 | 1.1 | 1.1 |
| 15–24 years..... | 2.1 | 2.4 | 3.0 |
| 25–34 years..... | 7.5 | 7.6 | 7.3 |
| 35–44 years..... | 30.8 | 30.2 | 30.1 |
| 45–54 years..... | 124.6 | 117.9 | 118.7 |
| 55–64 years..... | 377.8 | 357.2 | 354.3 |
| 65–74 years..... | 910.1 | 885.8 | 850.5 |
| 75–84 years..... | 2,412.5 | 2,344.3 | 2,229.2 |
| 85 years and over..... | 6,742.6 | 6,451.4 | 6,306.5 |
| Malignant neoplasms | | | |
| All ages, age adjusted..... | 133.7 | 133.0 | 132.6 |
| All ages, crude..... | 200.3 | 201.7 | 202.9 |
| Under 1 year..... | * | * | * |
| 1–14 years..... | 3.2 | 3.0 | 3.3 |
| 15–24 years..... | 5.3 | 4.8 | 5.8 |
| 25–34 years..... | 13.3 | 12.7 | 12.3 |
| 35–44 years..... | 45.0 | 43.2 | 43.2 |
| 45–54 years..... | 158.5 | 155.7 | 154.2 |
| 55–64 years..... | 451.4 | 440.7 | 433.2 |
| 65–74 years..... | 843.5 | 857.3 | 855.0 |
| 75–84 years..... | 1,338.4 | 1,348.7 | 1,367.3 |
| 85 years and over..... | 1,655.2 | 1,702.1 | 1,716.6 |
| Cerebrovascular diseases | | | |
| All ages, age adjusted..... | 28.5 | 27.6 | 26.5 |
| All ages, crude..... | 59.4 | 57.9 | 56.8 |
| Under 1 year..... | 2.8 | * | * |
| 1–14 years..... | 0.3 | 0.3 | 0.3 |
| 15–24 years..... | 0.4 | 0.8 | 0.5 |
| 25–34 years..... | 1.9 | 1.9 | 1.8 |
| 35–44 years..... | 6.7 | 6.6 | 6.7 |
| 45–54 years..... | 18.1 | 19.7 | 16.7 |
| 55–64 years..... | 50.6 | 46.5 | 46.8 |
| 65–74 years..... | 147.6 | 144.5 | 139.0 |
| 75–84 years..... | 530.2 | 501.5 | 486.6 |
| 85 years and over..... | 1,632.8 | 1,573.9 | 1,525.9 |

*Rates based on 100 or fewer estimated deaths have relative standard errors of 30 percent or more and are not shown.

NOTES: Before 1991 data include deaths of nonresidents of the United States. Starting in 1991 data exclude deaths of nonresidents of the United States. Code numbers for cause of death are based on the International Classification of Diseases, Ninth Revision, described in Appendix II, table V. Provisional data for 1989–91 were calculated using 1980's-based postcensal population estimates. See Appendix I, National Center for Health Statistics and Department of Commerce.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Annual summary of births, marriages, divorces, and deaths, United States, 1990 and 1991. Monthly Vital Statistics Report. Vols. 39 and 40, No. 13. DHHS Pub. Nos. (PHS) 91-1120 and 92-1120. 1991 and 1992. Public Health Service. Hyattsville, Md.

Table 51. Vaccinations of children 1–4 years of age for selected diseases, according to race and residence in metropolitan statistical area (MSA): United States, 1970, 1976, 1983–85, and 1991

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Vaccination and year | Total | Race | | Inside MSA | | |
|---|-------|-----------------------|--------------|-----------------|--------------------|----------------|
| | | White | All other | Central city | Remaining areas | Outside MSA |
| All respondents | | Percent of population | | | | |
| DTP ^{1,2} : | | | | | | |
| 1970 | 76.1 | 79.7 | 58.8 | 68.9 | 80.7 | 77.1 |
| 1976 | 71.4 | 75.3 | 53.2 | 64.1 | 75.7 | 72.9 |
| 1983 | 65.7 | 70.1 | 47.7 | 55.4 | 69.4 | 69.4 |
| 1984 | 65.7 | 69.1 | 51.3 | 57.9 | 66.6 | 69.8 |
| 1985 | 64.9 | 68.7 | 48.7 | 55.5 | 68.4 | 67.9 |
| 1991 | 65.8 | 68.6 | 54.6 | 60.1 | 68.7 | 68.2 |
| Polio ² : | | | | | | |
| 1970 | 65.9 | 69.2 | 50.1 | 61.0 | 70.8 | 64.7 |
| 1976 | 61.6 | 66.2 | 39.9 | 53.8 | 65.3 | 63.9 |
| 1983 | 57.0 | 61.9 | 36.7 | 47.7 | 60.3 | 60.3 |
| 1984 | 54.8 | 58.4 | 39.9 | 48.7 | 55.2 | 58.5 |
| 1985 | 55.3 | 58.9 | 40.1 | 47.1 | 58.4 | 58.0 |
| 1991 | 50.6 | 52.7 | 42.1 | 47.3 | 52.2 | 52.1 |
| MMR ³ : | | | | | | |
| Measles: | | | | | | |
| 1970 | 57.2 | 60.4 | 41.9 | 55.2 | 61.7 | 54.3 |
| 1976 | 65.9 | 68.3 | 54.8 | 62.5 | 67.2 | 67.3 |
| 1983 | 64.9 | 66.8 | 57.2 | 60.4 | 66.3 | 66.7 |
| 1984 | 62.8 | 65.4 | 52.0 | 56.6 | 63.3 | 66.4 |
| 1985 | 60.8 | 63.6 | 48.8 | 55.5 | 63.3 | 61.9 |
| Mumps: | | | | | | |
| 1970 | --- | --- | --- | --- | --- | --- |
| 1976 | 48.3 | 50.3 | 38.7 | 45.6 | 50.7 | 47.9 |
| 1983 | 59.5 | 61.8 | 50.0 | 52.6 | 60.2 | 63.6 |
| 1984 | 58.7 | 61.3 | 47.7 | 51.8 | 58.3 | 63.6 |
| 1985 | 58.9 | 61.8 | 47.0 | 52.4 | 61.0 | 61.4 |
| Rubella: | | | | | | |
| 1970 | 37.2 | 38.3 | 31.8 | 38.3 | 39.2 | 34.3 |
| 1976 | 61.7 | 63.8 | 51.5 | 59.5 | 63.5 | 61.5 |
| 1983 | 64.0 | 66.3 | 54.7 | 59.5 | 65.2 | 66.0 |
| 1984 | 60.9 | 63.9 | 48.3 | 56.1 | 60.4 | 64.6 |
| 1985 | 58.9 | 61.6 | 47.7 | 53.9 | 61.0 | 60.3 |
| MMR ³ : | | | | | | |
| 1991 | 77.6 | 77.9 | 76.4 | 75.6 | 78.8 | 77.9 |
| Respondents consulting vaccination records, 1991 ⁴ | | | | | | |
| DTP ^{1,2} | 84.2 | 86.2 | 74.1 | 78.9 | 86.3 | 86.7 |
| Polio ² | 68.9 | 70.6 | 60.3 | 65.5 | 70.9 | 69.2 |
| MMR ³ | 79.5 | 80.2 | 75.7 | 76.6 | 80.9 | 80.3 |

¹Diphtheria-tetanus-pertussis.

²Three doses or more.

³Measles-mumps-rubella.

⁴The data in this panel are based only on 49.3 percent of white respondents and 40.7 percent of all other respondents who either consulted records for all of the vaccination questions or reported no vaccinations.

NOTES: Beginning in 1976, the category "don't know" was added to response categories. In 1970, the lack of this option resulted in some forced positive answers, particularly for vaccinations requiring multiple dose schedules, that is, polio and DTP. In 1991, refusals and unknowns (2 percent of sample) were coded as not vaccinated.

SOURCES: Centers for Disease Control and Prevention: Data computed by the Division of Immunization, Center for Prevention Services from data compiled by the Division of Health Interview Statistics, National Center for Health Statistics; Unpublished data from the United States Immunization Survey.

Table 52. Selected notifiable disease rates, according to disease: United States, selected years 1950–91

[Data are based on reporting by State health departments]

| Disease | 1950 | 1960 | 1970 | 1980 | 1985 | 1988 | 1989 | 1990 | 1991 |
|--|---------|---------|---------|-----------|---------|---------|---------|---------|---------|
| Cases per 100,000 population | | | | | | | | | |
| Diphtheria | 3.83 | 0.51 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hepatitis A | --- | --- | 27.87 | 12.84 | 10.03 | 11.60 | 14.43 | 12.64 | 9.67 |
| Hepatitis B | --- | --- | 4.08 | 8.39 | 11.50 | 9.43 | 9.43 | 8.48 | 7.14 |
| Mumps | --- | --- | 55.55 | 3.86 | 1.30 | 2.05 | 2.34 | 2.17 | 1.72 |
| Pertussis (whooping cough) | 79.82 | 8.23 | 2.08 | 0.76 | 1.50 | 1.40 | 1.67 | 1.84 | 1.08 |
| Poliomyelitis, total | 22.02 | 1.77 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paralytic ¹ | --- | 1.40 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Rubella (German measles) | --- | --- | 27.75 | 1.72 | 0.26 | 0.09 | 0.16 | 0.45 | 0.56 |
| Rubeola (measles) | 211.01 | 245.42 | 23.23 | 5.96 | 1.18 | 1.38 | 7.33 | 11.17 | 3.82 |
| Salmonellosis, excluding typhoid fever | --- | 3.85 | 10.84 | 14.88 | 27.37 | 19.91 | 19.26 | 19.54 | 19.10 |
| Shigellosis | 15.45 | 6.94 | 6.79 | 8.41 | 7.14 | 12.46 | 10.07 | 10.89 | 9.34 |
| Tuberculosis ² | 80.45 | 30.83 | 18.28 | 12.25 | 9.30 | 9.13 | 9.46 | 10.33 | 10.42 |
| Varicella (chickenpox) | --- | --- | --- | 96.69 | 123.23 | 122.43 | 121.77 | 120.06 | 135.82 |
| Sexually transmitted diseases ³ : | | | | | | | | | |
| Syphilis ⁴ | 146.02 | 68.78 | 45.26 | 30.51 | 28.50 | 42.53 | 46.37 | 53.80 | 51.69 |
| Primary and secondary | 16.73 | 9.06 | 10.89 | 12.06 | 11.45 | 16.47 | 18.47 | 20.10 | 17.26 |
| Early latent | 39.71 | 10.11 | 8.08 | 9.00 | 9.15 | 14.63 | 18.29 | 22.10 | 21.66 |
| Late and late latent | 70.22 | 45.91 | 24.94 | 9.30 | 7.77 | 11.13 | 8.88 | 10.30 | 11.05 |
| Congenital ⁵ | 8.97 | 2.48 | 0.97 | 0.12 | 0.14 | 0.30 | 0.73 | 1.30 | 1.74 |
| Gonorrhea | 192.45 | 145.33 | 297.22 | 444.99 | 384.28 | 300.30 | 295.70 | 276.60 | 249.48 |
| Chancroid | 3.34 | 0.94 | 0.70 | 0.35 | 0.87 | 2.04 | 1.90 | 1.70 | 1.40 |
| Granuloma inguinale | 1.19 | 0.17 | 0.06 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.01 |
| Lymphogranuloma venereum | 0.95 | 0.47 | 0.30 | 0.09 | 0.10 | 0.08 | 0.07 | 0.10 | 0.19 |
| Number of cases | | | | | | | | | |
| Diphtheria | 5,796 | 918 | 435 | 3 | 3 | 2 | 3 | 4 | 5 |
| Hepatitis A | --- | --- | 56,797 | 29,087 | 23,210 | 28,507 | 35,821 | 31,441 | 24,378 |
| Hepatitis B | --- | --- | 8,310 | 19,015 | 26,611 | 23,177 | 23,419 | 21,102 | 18,003 |
| Mumps | --- | --- | 104,953 | 8,576 | 2,982 | 4,866 | 5,712 | 5,292 | 4,264 |
| Pertussis (whooping cough) | 120,718 | 14,809 | 4,249 | 1,730 | 3,589 | 3,450 | 4,157 | 4,570 | 2,719 |
| Poliomyelitis, total | 33,300 | 3,190 | 33 | 9 | 7 | 9 | 5 | 7 | 6 |
| Paralytic ¹ | --- | 2,525 | 31 | 8 | 7 | 9 | 5 | 7 | 6 |
| Rubella (German measles) | --- | --- | 56,552 | 3,904 | 630 | 225 | 396 | 1,125 | 1,401 |
| Rubeola (measles) | 319,124 | 441,703 | 47,351 | 13,506 | 2,822 | 3,396 | 18,193 | 27,786 | 9,643 |
| Salmonellosis, excluding typhoid fever | --- | 6,929 | 22,096 | 33,715 | 65,347 | 48,948 | 47,812 | 48,603 | 48,154 |
| Shigellosis | 23,367 | 12,487 | 13,845 | 19,041 | 17,057 | 30,617 | 25,010 | 27,077 | 23,548 |
| Tuberculosis ² | 121,742 | 55,494 | 37,137 | 27,749 | 22,201 | 22,436 | 23,495 | 25,701 | 26,283 |
| Varicella (chickenpox) | --- | --- | --- | 190,894 | 178,162 | 192,857 | 185,441 | 173,099 | 147,076 |
| Sexually transmitted diseases ³ : | | | | | | | | | |
| Syphilis ⁴ | 217,558 | 122,538 | 91,382 | 68,832 | 67,563 | 104,546 | 115,113 | 134,255 | 128,569 |
| Primary and secondary | 23,939 | 16,145 | 21,982 | 27,204 | 27,131 | 40,474 | 45,854 | 50,233 | 42,935 |
| Early latent | 59,256 | 18,017 | 16,311 | 20,297 | 21,689 | 35,968 | 45,409 | 55,132 | 53,870 |
| Late and late latent | 113,569 | 81,798 | 50,348 | 20,979 | 18,414 | 27,363 | 22,035 | 25,612 | 27,500 |
| Congenital ⁵ | 13,377 | 4,416 | 1,953 | 277 | 329 | 741 | 1,809 | 3,288 | 4,352 |
| Gonorrhea | 286,746 | 258,933 | 600,072 | 1,004,029 | 911,419 | 738,160 | 734,127 | 690,169 | 620,478 |
| Chancroid | 4,977 | 1,680 | 1,416 | 788 | 2,067 | 4,891 | 4,697 | 4,212 | 3,476 |
| Granuloma inguinale | 1,783 | 296 | 124 | 51 | 44 | 11 | 7 | 97 | 29 |
| Lymphogranuloma venereum | 1,427 | 835 | 612 | 199 | 226 | 194 | 182 | 277 | 471 |

¹Data beginning in 1986 may be updated due to late reports.

²Data after 1974 are not comparable to prior years because of changes in reporting criteria effective in 1975.

³Newly reported civilian cases prior to 1991; includes military cases beginning in 1991.

⁴Includes stage of syphilis not stated.

⁵Data reported for 1990 and later years reflect change in case definition introduced in 1989.

NOTES: Rates greater than 0 but less than 0.005 are shown as 0.00. The total resident population was used to calculate all rates except sexually transmitted diseases, for which the civilian resident population was used prior to 1991. Population data from those States where diseases were not notifiable or not available were excluded from rate calculation. See Appendix I for information on underreporting of notifiable diseases.

SOURCES: Centers for Disease Control and Prevention: Final 1991 reports of notifiable diseases, Morbidity and Mortality Weekly Report 40(53). Public Health Service, Atlanta, Ga., Oct. 1992; Division of Sexually Transmitted Diseases, Center for Prevention Services, Centers for Disease Control and Prevention: Selected data.

Table 53. Acquired immunodeficiency syndrome (AIDS) cases, according to age at diagnosis, sex, detailed race, and Hispanic origin: United States, 1985–92

[Data are based on reporting by State health departments]

| Age at diagnosis, sex, race, and Hispanic origin | All years ¹ | All years ¹ | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1992 |
|--|------------------------|---------------------------|-------|--------|--------|--------|--------|--------|--------|--------|-------|
| | Percent distribution | Number, by year of report | | | | | | | | | |
| All races | ... | 244,939 | 8,210 | 13,147 | 21,088 | 30,719 | 33,595 | 41,653 | 43,701 | 45,472 | 18.1 |
| Male | | | | | | | | | | | |
| All males, 13 years and over . . . | 100.0 | 214,981 | 7,555 | 12,002 | 19,082 | 27,108 | 29,625 | 36,378 | 37,656 | 38,789 | 39.5 |
| White, not Hispanic | 58.0 | 124,778 | 4,798 | 7,527 | 12,332 | 16,060 | 17,509 | 20,935 | 20,686 | 20,740 | 27.5 |
| Black, not Hispanic | 27.5 | 59,083 | 1,712 | 2,760 | 4,321 | 7,159 | 8,055 | 10,292 | 11,105 | 12,031 | 115.3 |
| Hispanic | 13.4 | 28,809 | 987 | 1,608 | 2,242 | 3,648 | 3,729 | 4,749 | 5,431 | 5,498 | 63.0 |
| American Indian ³ | 0.2 | 374 | 7 | 19 | 24 | 33 | 57 | 68 | 68 | 94 | 14.1 |
| Asian or Pacific Islander ⁴ | 0.7 | 1,435 | 48 | 78 | 130 | 163 | 213 | 254 | 252 | 276 | 9.8 |
| 13–19 years | 0.3 | 635 | 31 | 44 | 68 | 85 | 89 | 100 | 99 | 95 | ... |
| 20–29 years | 18.6 | 39,959 | 1,470 | 2,490 | 3,798 | 5,464 | 5,719 | 6,845 | 6,478 | 6,292 | ... |
| 30–39 years | 46.5 | 99,956 | 3,620 | 5,654 | 8,868 | 12,612 | 13,904 | 16,844 | 17,414 | 17,795 | ... |
| 40–49 years | 24.1 | 51,837 | 1,663 | 2,576 | 4,290 | 6,112 | 6,823 | 8,914 | 9,642 | 10,317 | ... |
| 50–59 years | 7.6 | 16,367 | 605 | 917 | 1,471 | 1,995 | 2,241 | 2,657 | 2,904 | 3,059 | ... |
| 60 years and over | 2.9 | 6,227 | 166 | 321 | 587 | 840 | 849 | 1,018 | 1,119 | 1,231 | ... |
| Female | | | | | | | | | | | |
| All females, 13 years and over . . . | 100.0 | 25,928 | 526 | 962 | 1,684 | 3,040 | 3,374 | 4,552 | 5,378 | 5,940 | 5.6 |
| White, not Hispanic | 26.7 | 6,924 | 143 | 268 | 545 | 853 | 949 | 1,228 | 1,362 | 1,457 | 1.8 |
| Black, not Hispanic | 56.1 | 14,538 | 286 | 523 | 896 | 1,655 | 1,896 | 2,543 | 3,101 | 3,391 | 27.8 |
| Hispanic | 16.2 | 4,207 | 93 | 160 | 229 | 500 | 493 | 741 | 862 | 1,026 | 12.2 |
| American Indian ³ | 0.2 | 61 | 3 | 2 | 3 | 5 | 9 | 10 | 12 | 16 | 2.3 |
| Asian or Pacific Islander ⁴ | 0.5 | 141 | 1 | 8 | 11 | 22 | 17 | 19 | 25 | 36 | 1.2 |
| 13–19 years | 1.0 | 259 | 4 | 12 | 11 | 23 | 29 | 63 | 53 | 57 | ... |
| 20–29 years | 24.9 | 6,454 | 175 | 275 | 482 | 771 | 889 | 1,106 | 1,222 | 1,359 | ... |
| 30–39 years | 46.8 | 12,128 | 236 | 446 | 749 | 1,506 | 1,620 | 2,100 | 2,540 | 2,730 | ... |
| 40–49 years | 17.0 | 4,398 | 46 | 127 | 229 | 412 | 506 | 787 | 1,001 | 1,240 | ... |
| 50–59 years | 5.7 | 1,468 | 26 | 47 | 91 | 151 | 172 | 277 | 342 | 344 | ... |
| 60 years and over | 4.7 | 1,221 | 39 | 55 | 122 | 177 | 158 | 219 | 220 | 210 | ... |
| Children | | | | | | | | | | | |
| All children, under 13 years . . . | 100.0 | 4,030 | 129 | 183 | 322 | 571 | 596 | 723 | 667 | 743 | 1.6 |
| White, not Hispanic | 21.6 | 871 | 27 | 42 | 85 | 150 | 111 | 162 | 145 | 128 | 0.4 |
| Black, not Hispanic | 57.3 | 2,308 | 83 | 105 | 162 | 304 | 342 | 385 | 403 | 468 | 6.7 |
| Hispanic | 20.1 | 811 | 19 | 35 | 72 | 112 | 136 | 168 | 112 | 138 | 2.3 |
| American Indian ³ | 0.3 | 13 | — | 2 | — | 2 | 4 | 4 | 2 | 3 | 0.6 |
| Asian or Pacific Islander ⁴ | 0.5 | 19 | — | 1 | 1 | 4 | 3 | 4 | 4 | 2 | 0.1 |
| Under 1 year | 39.7 | 1,601 | 54 | 78 | 141 | 193 | 239 | 284 | 248 | 305 | ... |
| 1–12 years | 60.3 | 2,429 | 75 | 105 | 181 | 378 | 357 | 439 | 419 | 438 | ... |

¹Includes cases prior to 1985.

²Resident population estimates for 1991 based on extrapolation from 1990 census counts from the U.S. Bureau of the Census.

³Includes Aleut and Eskimo.

⁴Includes Chinese, Japanese, Filipino, Hawaiian and part Hawaiian, and other Asian or Pacific Islander.

NOTES: The AIDS case definition was changed in September 1987 to allow for the presumptive diagnosis of AIDS-associated diseases and conditions and to expand the spectrum of human immunodeficiency virus-associated diseases reportable as AIDS. Excludes residents of U.S. territories. Data are updated periodically because of reporting delays. Data for all years have been updated through December 31, 1992.

SOURCE: Centers for Disease Control and Prevention, National Center for Infectious Diseases, Division of HIV/AIDS.

Table 54. Deaths among acquired immunodeficiency syndrome (AIDS) cases, according to age at death, sex, detailed race, and Hispanic origin: United States, 1985–92

[Data are based on reporting by State health departments]

| Age at death, sex, race, and Hispanic origin | All years ¹ | All years ¹ | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
|--|---------------------------|---------------------------|-------|--------|--------|--------|--------|--------|--------|--------|
| | Percent distribution | Number, by year of death | | | | | | | | |
| All races | ... | 166,211 | 6,681 | 11,535 | 15,451 | 19,656 | 26,151 | 28,053 | 30,579 | 22,660 |
| Male | | | | | | | | | | |
| All males, 13 years and over at diagnosis | 100.0 | 147,497 | 6,117 | 10,479 | 13,768 | 17,393 | 23,224 | 24,749 | 26,870 | 19,962 |
| White, not Hispanic | 58.9 | 86,930 | 3,805 | 6,575 | 8,204 | 10,075 | 13,463 | 14,544 | 15,664 | 11,667 |
| Black, not Hispanic | 26.8 | 39,554 | 1,493 | 2,475 | 3,616 | 4,780 | 6,336 | 6,670 | 7,365 | 5,521 |
| Hispanic | 13.3 | 19,577 | 784 | 1,355 | 1,837 | 2,375 | 3,191 | 3,296 | 3,519 | 2,544 |
| American Indian ² | 0.2 | 232 | 4 | 12 | 24 | 22 | 31 | 37 | 63 | 36 |
| Asian or Pacific Islander ³ | 0.7 | 962 | 29 | 52 | 76 | 109 | 156 | 164 | 202 | 154 |
| Age at death: | | | | | | | | | | |
| 13–19 years | 0.2 | 339 | 21 | 37 | 41 | 37 | 53 | 48 | 54 | 30 |
| 20–29 years | 15.5 | 22,859 | 1,131 | 1,881 | 2,496 | 3,003 | 3,641 | 3,603 | 3,583 | 2,569 |
| 30–39 years | 45.4 | 67,001 | 2,800 | 4,860 | 6,301 | 7,827 | 10,577 | 11,229 | 12,170 | 8,973 |
| 40–49 years | 26.3 | 38,841 | 1,382 | 2,424 | 3,174 | 4,227 | 6,021 | 6,820 | 7,713 | 5,929 |
| 50–59 years | 8.9 | 13,168 | 577 | 898 | 1,193 | 1,600 | 2,119 | 2,199 | 2,362 | 1,776 |
| 60 years and over | 3.6 | 5,289 | 206 | 379 | 563 | 699 | 813 | 850 | 988 | 685 |
| Female | | | | | | | | | | |
| All females, 13 years and over at diagnosis | 100.0 | 16,545 | 458 | 905 | 1,410 | 1,971 | 2,592 | 2,946 | 3,387 | 2,470 |
| White, not Hispanic | 26.8 | 4,436 | 147 | 258 | 443 | 551 | 663 | 771 | 864 | 643 |
| Black, not Hispanic | 56.1 | 9,284 | 224 | 486 | 776 | 1,076 | 1,461 | 1,696 | 1,914 | 1,428 |
| Hispanic | 16.2 | 2,677 | 84 | 150 | 183 | 326 | 439 | 454 | 576 | 381 |
| American Indian ² | 0.2 | 31 | 3 | 1 | 2 | 1 | 5 | 5 | 10 | 3 |
| Asian or Pacific Islander ³ | 0.6 | 95 | — | 7 | 6 | 16 | 19 | 12 | 21 | 12 |
| Age at death: | | | | | | | | | | |
| 13–19 years | 0.7 | 113 | 5 | 10 | 10 | 12 | 13 | 24 | 22 | 12 |
| 20–29 years | 22.2 | 3,672 | 129 | 236 | 354 | 450 | 554 | 624 | 714 | 459 |
| 30–39 years | 46.7 | 7,732 | 208 | 423 | 627 | 941 | 1,286 | 1,402 | 1,513 | 1,167 |
| 40–49 years | 17.8 | 2,946 | 53 | 106 | 194 | 295 | 443 | 543 | 712 | 560 |
| 50–59 years | 6.3 | 1,048 | 22 | 43 | 93 | 114 | 152 | 188 | 261 | 155 |
| 60 years and over | 6.2 | 1,034 | 41 | 87 | 132 | 159 | 144 | 165 | 165 | 117 |
| Children | | | | | | | | | | |
| All children, under 13 years at diagnosis | 100.0 | 2,169 | 106 | 151 | 273 | 292 | 335 | 358 | 322 | 228 |
| White, not Hispanic | 23.0 | 498 | 28 | 37 | 70 | 68 | 90 | 63 | 74 | 47 |
| Black, not Hispanic | 55.3 | 1,200 | 60 | 82 | 133 | 159 | 169 | 217 | 184 | 136 |
| Hispanic | 20.7 | 448 | 16 | 30 | 67 | 62 | 73 | 73 | 60 | 44 |
| American Indian ² | 0.4 | 8 | — | — | 2 | — | 1 | 2 | 3 | — |
| Asian or Pacific Islander ³ | 0.6 | 13 | 2 | 2 | 1 | 3 | 1 | 2 | 1 | 1 |
| Age at death: | | | | | | | | | | |
| Under 1 year | 30.9 | 670 | 35 | 51 | 84 | 93 | 110 | 108 | 75 | 55 |
| 1 year and over | 69.1 | 1,499 | 71 | 100 | 189 | 199 | 225 | 250 | 247 | 173 |

¹Includes cases prior to 1985.

²Includes Aleut and Eskimo.

³Includes Chinese, Japanese, Filipino, Hawaiian and part Hawaiian, and other Asian or Pacific Islander.

NOTES: The AIDS case definition was changed in September 1987 to allow for the presumptive diagnosis of AIDS-associated diseases and conditions and to expand the spectrum of human immunodeficiency virus-associated diseases reportable as AIDS. The number of deaths among AIDS cases reported to the CDC AIDS Surveillance System differs from the number of HIV infection deaths based on the National Vital Statistics System. See Appendix I. Excludes residents of U.S. territories. Data are updated periodically because of reporting delays. Data for all years have been updated through December 31, 1992.

SOURCE: Centers for Disease Control and Prevention, National Center for Infectious Diseases, Division of HIV/AIDS.

Table 55 (page 1 of 2). Acquired immunodeficiency syndrome (AIDS) cases, according to race, Hispanic origin, sex, and transmission category for persons 13 years of age and over at diagnosis: United States, 1985–92

[Data are based on reporting by State health departments]

| Race, Hispanic origin, sex, and transmission category | All years ¹ | All years ¹ | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | |
|--|---------------------------|---------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--|
| | Percent distribution | Number, by year of report | | | | | | | | | |
| All races | 100.0 | 240,909 | 8,081 | 12,964 | 20,766 | 30,148 | 32,999 | 40,930 | 43,034 | 44,729 | |
| Men who have sex with men. | 58.6 | 141,137 | 5,429 | 8,542 | 13,550 | 17,860 | 19,688 | 23,890 | 23,872 | 23,653 | |
| Injecting drug use | 21.9 | 52,790 | 1,395 | 2,244 | 3,548 | 6,926 | 7,212 | 9,252 | 10,347 | 10,580 | |
| Men who have sex with men and injecting drug use. | 6.3 | 15,244 | 592 | 989 | 1,551 | 2,037 | 2,189 | 2,389 | 2,454 | 2,355 | |
| Hemophilia/coagulation disorder | 0.8 | 2,001 | 74 | 122 | 206 | 297 | 285 | 337 | 311 | 313 | |
| Born in Caribbean/African countries | 1.2 | 2,960 | 140 | 216 | 261 | 370 | 366 | 415 | 492 | 453 | |
| Heterosexual contact ² | 5.1 | 12,178 | 144 | 341 | 647 | 1,187 | 1,507 | 2,220 | 2,707 | 3,335 | |
| Sex with injecting drug user. | 3.2 | 7,787 | 107 | 237 | 444 | 862 | 1,063 | 1,481 | 1,681 | 1,846 | |
| Transfusion ³ | 2.0 | 4,800 | 171 | 298 | 616 | 810 | 722 | 791 | 663 | 650 | |
| Undetermined ⁴ | 4.1 | 9,799 | 136 | 212 | 387 | 661 | 1,030 | 1,636 | 2,188 | 3,390 | |
| Race and Hispanic origin | | | | | | | | | | | |
| White, not Hispanic | 100.0 | 131,702 | 4,941 | 7,795 | 12,877 | 16,913 | 18,458 | 22,163 | 22,048 | 22,197 | |
| Men who have sex with men. | 75.2 | 98,979 | 4,038 | 6,223 | 10,018 | 12,783 | 13,858 | 16,691 | 16,184 | 15,728 | |
| Injecting drug use | 9.0 | 11,790 | 252 | 406 | 820 | 1,485 | 1,694 | 2,061 | 2,333 | 2,494 | |
| Men who have sex with men and injecting drug use. | 6.9 | 9,040 | 377 | 647 | 1,007 | 1,180 | 1,303 | 1,358 | 1,423 | 1,322 | |
| Hemophilia/coagulation disorder | 1.3 | 1,651 | 63 | 113 | 180 | 242 | 236 | 277 | 253 | 242 | |
| Born in Caribbean/African countries | 0.0 | 10 | — | 1 | 1 | 1 | — | 1 | 4 | 1 | |
| Heterosexual contact ² | 2.6 | 3,384 | 33 | 97 | 209 | 368 | 448 | 653 | 723 | 833 | |
| Sex with injecting drug user. | 1.3 | 1,754 | 18 | 48 | 103 | 211 | 262 | 348 | 367 | 386 | |
| Transfusion ³ | 2.6 | 3,370 | 133 | 229 | 471 | 603 | 531 | 520 | 418 | 403 | |
| Undetermined ⁴ | 2.6 | 3,478 | 45 | 79 | 171 | 251 | 388 | 602 | 710 | 1,174 | |
| Black, not Hispanic. | 100.0 | 73,621 | 1,998 | 3,283 | 5,217 | 8,814 | 9,951 | 12,835 | 14,206 | 15,422 | |
| Men who have sex with men. | 34.7 | 25,523 | 795 | 1,327 | 2,124 | 3,088 | 3,598 | 4,464 | 4,604 | 4,831 | |
| Injecting drug use | 39.3 | 28,950 | 748 | 1,207 | 1,891 | 3,757 | 4,014 | 5,144 | 5,722 | 5,805 | |
| Men who have sex with men and injecting drug use. | 6.0 | 4,405 | 143 | 239 | 386 | 607 | 657 | 766 | 726 | 713 | |
| Hemophilia/coagulation disorder | 0.2 | 167 | 4 | 3 | 11 | 28 | 18 | 28 | 35 | 35 | |
| Born in Caribbean/African countries | 4.0 | 2,925 | 140 | 215 | 258 | 365 | 361 | 410 | 483 | 447 | |
| Heterosexual contact ² | 9.0 | 6,652 | 82 | 164 | 325 | 575 | 799 | 1,182 | 1,548 | 1,938 | |
| Sex with injecting drug user. | 6.1 | 4,498 | 64 | 121 | 252 | 456 | 600 | 841 | 1,014 | 1,122 | |
| Transfusion ³ | 1.2 | 907 | 26 | 43 | 93 | 135 | 126 | 168 | 148 | 157 | |
| Undetermined ⁴ | 5.6 | 4,092 | 60 | 85 | 129 | 259 | 378 | 673 | 940 | 1,496 | |
| Hispanic | 100.0 | 33,016 | 1,080 | 1,768 | 2,471 | 4,148 | 4,222 | 5,490 | 6,293 | 6,524 | |
| Men who have sex with men. | 45.2 | 14,920 | 551 | 907 | 1,258 | 1,797 | 1,992 | 2,434 | 2,763 | 2,735 | |
| Injecting drug use | 35.7 | 11,793 | 387 | 619 | 828 | 1,658 | 1,459 | 2,006 | 2,236 | 2,224 | |
| Men who have sex with men and injecting drug use. | 5.1 | 1,686 | 70 | 99 | 146 | 242 | 212 | 244 | 290 | 288 | |
| Hemophilia/coagulation disorder | 0.4 | 145 | 7 | 5 | 10 | 22 | 22 | 27 | 18 | 29 | |
| Born in Caribbean/African countries | 0.0 | 16 | — | — | 2 | 2 | 2 | 4 | 3 | 3 | |
| Heterosexual contact ² | 6.2 | 2,039 | 29 | 77 | 110 | 231 | 241 | 371 | 414 | 535 | |
| Sex with injecting drug user. | 4.5 | 1,483 | 25 | 68 | 88 | 187 | 189 | 283 | 287 | 329 | |
| Transfusion ³ | 1.2 | 403 | 7 | 20 | 38 | 54 | 54 | 79 | 75 | 72 | |
| Undetermined ⁴ | 6.1 | 2,014 | 29 | 41 | 79 | 142 | 240 | 325 | 494 | 638 | |

See footnotes at end of table.

Table 55 (page 2 of 2). Acquired immunodeficiency syndrome (AIDS) cases, according to race, Hispanic origin, sex, and transmission category for persons 13 years of age and over at diagnosis: United States, 1985–92

[Data are based on reporting by State health departments]

| Race, Hispanic origin, sex, and transmission category | All years ¹ | All years ¹ | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
|---|---------------------------|---------------------------|-------|--------|--------|--------|--------|--------|--------|--------|
| Sex | Percent distribution | Number, by year of report | | | | | | | | |
| Male | 100.0 | 214,981 | 7,555 | 12,002 | 19,082 | 27,108 | 29,625 | 36,378 | 37,656 | 38,789 |
| Men who have sex with men | 65.7 | 141,137 | 5,429 | 8,542 | 13,550 | 17,860 | 19,688 | 23,890 | 23,872 | 23,653 |
| Injecting drug use | 18.5 | 39,865 | 1,111 | 1,767 | 2,708 | 5,296 | 5,441 | 6,992 | 7,664 | 7,879 |
| Men who have sex with men and injecting drug use | 7.1 | 15,244 | 592 | 989 | 1,551 | 2,037 | 2,189 | 2,389 | 2,454 | 2,355 |
| Hemophilia/coagulation disorder . . . | 0.9 | 1,958 | 73 | 118 | 202 | 293 | 279 | 328 | 303 | 310 |
| Born in Caribbean/African countries | 1.0 | 2,075 | 109 | 160 | 187 | 262 | 236 | 304 | 325 | 283 |
| Heterosexual contact ² | 1.8 | 3,942 | 28 | 65 | 161 | 326 | 504 | 721 | 881 | 1,243 |
| Sex with injecting drug user | 1.1 | 2,413 | 25 | 44 | 114 | 228 | 369 | 462 | 521 | 639 |
| Transfusion ³ | 1.4 | 2,952 | 111 | 193 | 399 | 488 | 438 | 467 | 424 | 387 |
| Undetermined ⁴ | 3.6 | 7,808 | 102 | 168 | 324 | 546 | 850 | 1,287 | 1,733 | 2,679 |
| Female | 100.0 | 25,928 | 526 | 962 | 1,684 | 3,040 | 3,374 | 4,552 | 5,378 | 5,940 |
| Injecting drug use | 49.8 | 12,925 | 284 | 477 | 840 | 1,630 | 1,771 | 2,260 | 2,683 | 2,701 |
| Hemophilia/coagulation disorder . . . | 0.2 | 43 | 1 | 4 | 4 | 4 | 6 | 9 | 8 | 3 |
| Born in Caribbean/African countries | 3.4 | 885 | 31 | 56 | 74 | 108 | 130 | 111 | 167 | 170 |
| Heterosexual contact ² | 31.8 | 8,236 | 116 | 276 | 486 | 861 | 1,003 | 1,499 | 1,826 | 2,092 |
| Sex with injecting drug user | 20.7 | 5,374 | 82 | 193 | 330 | 634 | 694 | 1,019 | 1,160 | 1,207 |
| Transfusion ³ | 7.1 | 1,848 | 60 | 105 | 217 | 322 | 284 | 324 | 239 | 263 |
| Undetermined ⁴ | 7.7 | 1,991 | 34 | 44 | 63 | 115 | 180 | 349 | 455 | 711 |

¹Includes cases prior to 1985.

²Includes persons who have had heterosexual contact with a person with human immunodeficiency virus (HIV) infection or at risk of HIV infection.

³Receipt of blood transfusion, blood components, or tissue.

⁴Includes persons for whom risk information is incomplete (because of death, refusal to be interviewed, or loss to followup), persons still under investigation, men reported only to have had heterosexual contact with prostitutes, and interviewed persons for whom no specific risk is identified.

NOTES: The AIDS case definition was changed in September 1987 to allow for the presumptive diagnosis of AIDS-associated diseases and conditions and to expand the spectrum of HIV-associated diseases reportable as AIDS. Excludes residents of U.S. territories. Data are updated periodically because of reporting delays. Data for all years have been updated through December 31, 1992.

SOURCE: Centers for Disease Control and Prevention, National Center for Infectious Diseases, Division of HIV/AIDS.

Table 56 (page 1 of 2). Deaths among acquired immunodeficiency syndrome (AIDS) cases, according to race, Hispanic origin, sex, and transmission category for persons 13 years of age and over at diagnosis: United States, 1985–92

[Data are based on reporting by State health departments]

| Race, Hispanic origin, sex, and transmission category | All years ¹ | All years ¹ | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | |
|--|------------------------|--------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--|
| | Percent distribution | Number, by year of death | | | | | | | | | |
| All races | 100.0 | 164,042 | 6,575 | 11,384 | 15,178 | 19,364 | 25,816 | 27,695 | 30,257 | 22,432 | |
| Men who have sex with men | 60.0 | 98,432 | 4,227 | 7,314 | 9,131 | 11,476 | 15,388 | 16,394 | 17,858 | 13,390 | |
| Injecting drug use | 21.4 | 35,152 | 1,214 | 2,051 | 3,172 | 4,366 | 5,827 | 6,162 | 6,752 | 4,571 | |
| Men who have sex with men and injecting drug use | 6.4 | 10,474 | 496 | 857 | 1,136 | 1,265 | 1,564 | 1,655 | 1,715 | 1,275 | |
| Hemophilia/coagulation disorder | 0.9 | 1,441 | 76 | 108 | 159 | 193 | 216 | 248 | 231 | 168 | |
| Born in Caribbean/African countries | 1.1 | 1,724 | 114 | 155 | 196 | 194 | 249 | 202 | 220 | 193 | |
| Heterosexual contact ² | 4.4 | 7,239 | 128 | 275 | 463 | 730 | 1,074 | 1,420 | 1,688 | 1,394 | |
| Sex with injecting drug user | 2.9 | 4,763 | 89 | 189 | 325 | 518 | 772 | 940 | 1,062 | 816 | |
| Transfusion ³ | 2.3 | 3,828 | 196 | 369 | 535 | 608 | 616 | 546 | 523 | 344 | |
| Undetermined ⁴ | 3.5 | 5,752 | 124 | 255 | 386 | 532 | 882 | 1,068 | 1,270 | 1,097 | |
| Race and Hispanic origin | | | | | | | | | | | |
| White, not Hispanic | 100.0 | 91,366 | 3,952 | 6,833 | 8,647 | 10,626 | 14,126 | 15,315 | 16,528 | 12,310 | |
| Men who have sex with men | 76.2 | 69,627 | 3,125 | 5,361 | 6,480 | 7,985 | 10,811 | 11,632 | 12,571 | 9,308 | |
| Injecting drug use | 8.2 | 7,483 | 222 | 364 | 646 | 876 | 1,232 | 1,337 | 1,482 | 1,125 | |
| Men who have sex with men and injecting drug use | 6.7 | 6,134 | 310 | 546 | 685 | 719 | 869 | 954 | 1,012 | 743 | |
| Hemophilia/coagulation disorder | 1.3 | 1,212 | 62 | 97 | 137 | 170 | 172 | 207 | 195 | 134 | |
| Born in Caribbean/African countries | 0.0 | 2 | — | — | — | — | — | — | — | 2 | |
| Heterosexual contact ² | 2.2 | 2,037 | 32 | 83 | 127 | 211 | 305 | 399 | 468 | 401 | |
| Sex with injecting drug user | 1.2 | 1,056 | 12 | 40 | 69 | 108 | 178 | 201 | 241 | 201 | |
| Transfusion ³ | 3.0 | 2,771 | 152 | 288 | 415 | 463 | 424 | 395 | 354 | 206 | |
| Undetermined ⁴ | 2.3 | 2,100 | 49 | 94 | 157 | 202 | 313 | 391 | 446 | 391 | |
| Black, not Hispanic | 100.0 | 48,838 | 1,717 | 2,961 | 4,392 | 5,856 | 7,797 | 8,366 | 9,279 | 6,949 | |
| Men who have sex with men | 35.7 | 17,454 | 656 | 1,161 | 1,626 | 2,174 | 2,798 | 2,865 | 3,156 | 2,487 | |
| Injecting drug use | 39.9 | 19,488 | 669 | 1,148 | 1,737 | 2,409 | 3,215 | 3,452 | 3,794 | 2,516 | |
| Men who have sex with men and injecting drug use | 6.3 | 3,101 | 129 | 222 | 321 | 387 | 485 | 528 | 515 | 378 | |
| Hemophilia/coagulation disorder | 0.2 | 115 | 7 | 3 | 13 | 11 | 21 | 18 | 21 | 20 | |
| Born in Caribbean/African countries | 3.5 | 1,709 | 113 | 155 | 195 | 194 | 244 | 202 | 217 | 188 | |
| Heterosexual contact ² | 8.1 | 3,945 | 68 | 123 | 269 | 379 | 566 | 777 | 936 | 793 | |
| Sex with injecting drug user | 5.6 | 2,751 | 54 | 90 | 205 | 292 | 429 | 554 | 628 | 473 | |
| Transfusion ³ | 1.4 | 667 | 27 | 45 | 79 | 94 | 127 | 100 | 97 | 87 | |
| Undetermined ⁴ | 4.8 | 2,359 | 48 | 104 | 152 | 208 | 341 | 424 | 543 | 480 | |
| Hispanic | 100.0 | 22,254 | 868 | 1,505 | 2,020 | 2,701 | 3,630 | 3,750 | 4,095 | 2,925 | |
| Men who have sex with men | 46.1 | 10,259 | 423 | 736 | 934 | 1,187 | 1,610 | 1,714 | 1,887 | 1,422 | |
| Injecting drug use | 36.1 | 8,034 | 319 | 530 | 783 | 1,064 | 1,350 | 1,349 | 1,440 | 911 | |
| Men who have sex with men and injecting drug use | 5.3 | 1,170 | 56 | 86 | 126 | 153 | 198 | 159 | 173 | 142 | |
| Hemophilia/coagulation disorder | 0.4 | 97 | 5 | 8 | 7 | 10 | 19 | 19 | 13 | 13 | |
| Born in Caribbean/African countries | 0.0 | 11 | 1 | — | 1 | — | 3 | — | 3 | 3 | |
| Heterosexual contact ² | 5.4 | 1,202 | 28 | 66 | 66 | 135 | 190 | 234 | 266 | 195 | |
| Sex with injecting drug user | 4.2 | 931 | 23 | 58 | 51 | 115 | 158 | 178 | 187 | 141 | |
| Transfusion ³ | 1.4 | 302 | 11 | 28 | 30 | 41 | 50 | 41 | 55 | 42 | |
| Undetermined ⁴ | 5.3 | 1,179 | 25 | 51 | 73 | 111 | 210 | 234 | 258 | 197 | |

See footnotes at end of table.

Table 56 (page 2 of 2). Deaths among acquired immunodeficiency syndrome (AIDS) cases, according to race, Hispanic origin, sex, and transmission category for persons 13 years of age and over at diagnosis: United States, 1985–92

[Data are based on reporting by State health departments]

| Race, Hispanic origin, sex, and transmission category | All years ¹ | All years ¹ | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | |
|--|------------------------|--------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--|
| Sex | Percent distribution | Number, by year of death | | | | | | | | | |
| Male | 100.0 | 147,497 | 6,117 | 10,479 | 13,768 | 17,393 | 23,224 | 24,749 | 26,870 | 19,962 | |
| Men who have sex with men | 66.7 | 98,432 | 4,227 | 7,314 | 9,131 | 11,476 | 15,388 | 16,394 | 17,858 | 13,390 | |
| Injecting drug use | 18.2 | 26,846 | 973 | 1,599 | 2,453 | 3,336 | 4,497 | 4,688 | 5,072 | 3,424 | |
| Men who have sex with men and injecting drug use | 7.1 | 10,474 | 496 | 857 | 1,136 | 1,265 | 1,564 | 1,655 | 1,715 | 1,275 | |
| Hemophilia/coagulation disorder | 1.0 | 1,410 | 71 | 105 | 157 | 188 | 213 | 242 | 228 | 165 | |
| Born in Caribbean/African countries | 0.8 | 1,209 | 91 | 104 | 142 | 131 | 163 | 142 | 142 | 129 | |
| Heterosexual contact ² | 1.5 | 2,179 | 30 | 52 | 121 | 186 | 309 | 443 | 530 | 500 | |
| Sex with injecting drug user | 0.9 | 1,357 | 26 | 36 | 82 | 137 | 205 | 284 | 319 | 261 | |
| Transfusion ³ | 1.6 | 2,371 | 126 | 254 | 317 | 371 | 379 | 343 | 315 | 213 | |
| Undetermined ⁴ | 3.1 | 4,576 | 103 | 194 | 311 | 440 | 711 | 842 | 1,010 | 866 | |
| Female | 100.0 | 16,545 | 458 | 905 | 1,410 | 1,971 | 2,592 | 2,946 | 3,387 | 2,470 | |
| Injecting drug use | 50.2 | 8,306 | 241 | 452 | 719 | 1,030 | 1,330 | 1,474 | 1,680 | 1,147 | |
| Hemophilia/coagulation disorder | 0.2 | 31 | 5 | 3 | 2 | 5 | 3 | 6 | 3 | 3 | |
| Born in Caribbean/African countries | 3.1 | 515 | 23 | 51 | 54 | 63 | 86 | 60 | 78 | 64 | |
| Heterosexual contact ² | 30.6 | 5,060 | 98 | 223 | 342 | 544 | 765 | 977 | 1,158 | 894 | |
| Sex with injecting drug user | 20.6 | 3,406 | 63 | 153 | 243 | 381 | 567 | 656 | 743 | 555 | |
| Transfusion ³ | 8.8 | 1,457 | 70 | 115 | 218 | 237 | 237 | 203 | 208 | 131 | |
| Undetermined ⁴ | 7.1 | 1,176 | 21 | 61 | 75 | 92 | 171 | 226 | 260 | 231 | |

¹Includes cases prior to 1985.

²Includes persons who have had heterosexual contact with a person with human immunodeficiency virus (HIV) infection or at risk of HIV infection.

³Receipt of blood transfusion, blood components, or tissue.

⁴Includes persons for whom risk information is incomplete (because of death, refusal to be interviewed, or loss to followup), persons still under investigation, men reported only to have had heterosexual contact with prostitutes, and interviewed persons for whom no specific risk is identified.

NOTES: The AIDS case definition was changed in September 1987 to allow for the presumptive diagnosis of AIDS-associated diseases and conditions and to expand the spectrum of human immunodeficiency virus-associated diseases reportable as AIDS. The number of deaths among AIDS cases reported to the CDC AIDS Surveillance System differs from the number of HIV infection deaths based on the National Vital Statistics System. See Appendix I. Excludes residents of U.S. territories. Data are updated periodically because of reporting delays. Data for all years have been updated through December 31, 1992.

SOURCE: Centers for Disease Control and Prevention, National Center for Infectious Diseases, Division of HIV/AIDS.

Table 57. Acquired immunodeficiency syndrome (AIDS) cases, according to geographic division and State: United States, 1985–92

[Data are based on reporting by State health departments]

| Geographic division and State | All years ¹ | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | Cases per 100,000 population ² |
|--------------------------------|------------------------|-------|--------|--------|--------|--------|--------|--------|--------|---|
| Number, by year of report | | | | | | | | | | |
| United States | 244,939 | 8,210 | 13,147 | 21,088 | 30,719 | 33,595 | 41,653 | 43,701 | 45,472 | 18.12 |
| New England | 9,561 | 279 | 528 | 847 | 1,282 | 1,394 | 1,507 | 1,745 | 1,743 | 13.11 |
| Maine | 313 | 11 | 22 | 28 | 27 | 66 | 65 | 50 | 44 | 3.55 |
| New Hampshire | 292 | 4 | 13 | 32 | 38 | 37 | 65 | 52 | 46 | 4.08 |
| Vermont | 121 | 2 | 6 | 15 | 11 | 20 | 22 | 17 | 26 | 4.58 |
| Massachusetts | 5,177 | 164 | 282 | 452 | 710 | 752 | 842 | 967 | 875 | 14.48 |
| Rhode Island | 579 | 12 | 30 | 68 | 84 | 88 | 88 | 92 | 106 | 10.50 |
| Connecticut | 3,079 | 86 | 175 | 252 | 412 | 431 | 425 | 567 | 646 | 19.55 |
| Middle Atlantic | 72,654 | 3,147 | 4,843 | 6,110 | 10,269 | 9,289 | 12,040 | 11,673 | 11,764 | 31.22 |
| New York | 50,985 | 2,479 | 3,768 | 3,948 | 6,965 | 5,993 | 8,389 | 8,152 | 8,398 | 46.57 |
| New Jersey | 14,702 | 467 | 766 | 1,509 | 2,452 | 2,225 | 2,459 | 2,303 | 2,040 | 26.27 |
| Pennsylvania | 6,967 | 201 | 309 | 653 | 852 | 1,071 | 1,192 | 1,218 | 1,326 | 11.16 |
| East North Central | 18,060 | 353 | 822 | 1,405 | 2,139 | 2,655 | 3,035 | 3,369 | 3,994 | 9.50 |
| Ohio | 3,674 | 54 | 213 | 336 | 506 | 488 | 679 | 619 | 733 | 6.75 |
| Indiana | 1,744 | 26 | 71 | 132 | 78 | 399 | 292 | 315 | 402 | 7.24 |
| Illinois | 8,229 | 188 | 346 | 629 | 987 | 1,132 | 1,276 | 1,602 | 1,912 | 16.73 |
| Michigan | 3,343 | 61 | 150 | 211 | 455 | 506 | 579 | 619 | 718 | 7.72 |
| Wisconsin | 1,070 | 24 | 42 | 97 | 113 | 130 | 209 | 214 | 229 | 4.66 |
| West North Central | 5,989 | 128 | 241 | 476 | 769 | 831 | 1,056 | 1,123 | 1,302 | 7.35 |
| Minnesota | 1,264 | 41 | 96 | 130 | 166 | 176 | 203 | 216 | 218 | 4.95 |
| Iowa | 423 | 12 | 21 | 30 | 42 | 56 | 68 | 81 | 111 | 4.02 |
| Missouri | 3,192 | 50 | 74 | 238 | 411 | 442 | 580 | 654 | 708 | 13.78 |
| North Dakota | 29 | 1 | 4 | 2 | 3 | 8 | 1 | 5 | 5 | 0.78 |
| South Dakota | 37 | 1 | 2 | 2 | 7 | 4 | 9 | 4 | 8 | 1.15 |
| Nebraska | 309 | 7 | 10 | 24 | 51 | 32 | 58 | 63 | 61 | 3.86 |
| Kansas | 735 | 16 | 34 | 50 | 89 | 113 | 137 | 100 | 191 | 7.67 |
| South Atlantic | 49,961 | 1,299 | 2,076 | 3,667 | 5,421 | 7,046 | 8,808 | 10,409 | 10,288 | 23.26 |
| Delaware | 539 | 12 | 22 | 39 | 62 | 80 | 93 | 87 | 140 | 20.79 |
| Maryland | 5,307 | 150 | 188 | 457 | 544 | 713 | 996 | 969 | 1,204 | 24.89 |
| District of Columbia | 4,118 | 178 | 227 | 464 | 494 | 493 | 734 | 709 | 706 | 116.93 |
| Virginia | 3,525 | 109 | 160 | 242 | 348 | 392 | 744 | 679 | 784 | 12.50 |
| West Virginia | 297 | 6 | 8 | 23 | 20 | 55 | 64 | 62 | 54 | 3.04 |
| North Carolina | 2,854 | 66 | 81 | 209 | 276 | 444 | 571 | 600 | 584 | 8.71 |
| South Carolina | 1,785 | 38 | 58 | 84 | 174 | 327 | 360 | 335 | 391 | 11.10 |
| Georgia | 7,044 | 191 | 304 | 517 | 838 | 1,093 | 1,228 | 1,454 | 1,324 | 20.12 |
| Florida | 24,492 | 549 | 1,028 | 1,632 | 2,665 | 3,449 | 4,018 | 5,514 | 5,101 | 38.48 |
| East South Central | 5,566 | 73 | 165 | 324 | 756 | 761 | 1,044 | 1,089 | 1,318 | 8.66 |
| Kentucky | 885 | 18 | 32 | 48 | 90 | 115 | 190 | 165 | 213 | 5.78 |
| Tennessee | 1,864 | 18 | 72 | 72 | 329 | 266 | 341 | 351 | 408 | 8.32 |
| Alabama | 1,702 | 29 | 33 | 153 | 211 | 214 | 239 | 375 | 437 | 10.78 |
| Mississippi | 1,115 | 8 | 28 | 51 | 126 | 166 | 274 | 198 | 260 | 10.08 |
| West South Central | 23,260 | 617 | 1,181 | 2,158 | 2,845 | 3,137 | 4,448 | 4,245 | 4,182 | 15.49 |
| Arkansas | 930 | 10 | 29 | 48 | 80 | 79 | 208 | 195 | 280 | 11.88 |
| Louisiana | 3,794 | 104 | 165 | 336 | 401 | 508 | 703 | 794 | 710 | 16.82 |
| Oklahoma | 1,173 | 20 | 50 | 107 | 149 | 169 | 203 | 189 | 272 | 8.61 |
| Texas | 17,363 | 483 | 937 | 1,667 | 2,215 | 2,381 | 3,334 | 3,067 | 2,920 | 16.92 |
| Mountain | 7,006 | 160 | 332 | 633 | 892 | 1,106 | 1,116 | 1,304 | 1,349 | 9.71 |
| Montana | 108 | 1 | 3 | 6 | 16 | 13 | 17 | 30 | 22 | 2.75 |
| Idaho | 147 | 4 | 3 | 10 | 11 | 23 | 28 | 33 | 35 | 3.45 |
| Wyoming | 58 | 1 | 4 | 3 | 6 | 16 | 5 | 17 | 5 | 1.11 |
| Colorado | 2,433 | 62 | 166 | 226 | 324 | 386 | 362 | 433 | 410 | 12.29 |
| New Mexico | 567 | 14 | 21 | 47 | 60 | 94 | 108 | 112 | 107 | 6.96 |
| Arizona | 1,943 | 49 | 78 | 214 | 275 | 321 | 309 | 282 | 386 | 10.27 |
| Utah | 609 | 17 | 21 | 39 | 81 | 73 | 99 | 135 | 135 | 7.72 |
| Nevada | 1,141 | 12 | 36 | 88 | 119 | 180 | 188 | 262 | 249 | 20.05 |
| Pacific | 52,882 | 2,154 | 2,959 | 5,468 | 6,346 | 7,376 | 8,599 | 8,744 | 9,532 | 23.91 |
| Washington | 3,404 | 109 | 168 | 324 | 342 | 526 | 746 | 572 | 551 | 11.15 |
| Oregon | 1,565 | 35 | 63 | 160 | 177 | 228 | 336 | 257 | 289 | 10.09 |
| California | 46,818 | 1,977 | 2,656 | 4,885 | 5,703 | 6,426 | 7,337 | 7,700 | 8,539 | 28.12 |
| Alaska | 132 | 5 | 16 | 16 | 19 | 17 | 24 | 18 | 15 | 2.66 |
| Hawaii | 963 | 28 | 56 | 83 | 105 | 179 | 156 | 197 | 138 | 12.29 |

¹Includes cases prior to 1985.

²Resident population estimates for 1991 based on extrapolation from 1990 census counts from the U.S. Bureau of the Census.

NOTES: The AIDS case definition was changed in September 1987 to allow for the presumptive diagnosis of AIDS-associated diseases and conditions and to expand the spectrum of human immunodeficiency virus-associated diseases reportable as AIDS. Excludes residents of U.S. territories. Data are updated periodically because of reporting delays. Data for all years have been updated through December 31, 1992.

SOURCE: Centers for Disease Control and Prevention, National Center for Infectious Diseases, Division of HIV/AIDS.

Table 58. Deaths among acquired immunodeficiency syndrome (AIDS) cases, according to geographic division and State: United States, 1985–92

[Data are based on reporting by State health departments]

| Geographic division and State | All years ¹ | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
|--------------------------------|------------------------|-------|--------|--------|--------|--------|--------|--------|--------|
| Number, by year of death | | | | | | | | | |
| United States | 166,211 | 6,681 | 11,535 | 15,451 | 19,656 | 26,151 | 28,053 | 30,579 | 22,660 |
| New England | 6,058 | 225 | 394 | 591 | 745 | 961 | 1,051 | 1,168 | 749 |
| Maine | 172 | 7 | 16 | 10 | 19 | 28 | 41 | 35 | 16 |
| New Hampshire | 171 | 7 | 14 | 17 | 25 | 23 | 29 | 30 | 23 |
| Vermont | 68 | 1 | 6 | 6 | 5 | 10 | 13 | 11 | 14 |
| Massachusetts | 3,368 | 115 | 193 | 324 | 416 | 552 | 578 | 682 | 412 |
| Rhode Island | 402 | 9 | 24 | 44 | 46 | 56 | 74 | 82 | 60 |
| Connecticut | 1,877 | 86 | 141 | 190 | 234 | 292 | 316 | 328 | 224 |
| Middle Atlantic | 52,056 | 2,641 | 4,181 | 5,395 | 6,592 | 8,596 | 8,283 | 8,668 | 5,070 |
| New York | 37,363 | 2,052 | 3,036 | 3,769 | 4,700 | 6,263 | 5,915 | 6,086 | 3,430 |
| New Jersey | 9,926 | 429 | 830 | 1,180 | 1,320 | 1,609 | 1,541 | 1,714 | 914 |
| Pennsylvania | 4,767 | 160 | 315 | 446 | 572 | 724 | 827 | 868 | 726 |
| East North Central | 11,770 | 322 | 605 | 898 | 1,285 | 1,827 | 2,055 | 2,366 | 2,203 |
| Ohio | 2,439 | 62 | 127 | 186 | 261 | 386 | 433 | 499 | 438 |
| Indiana | 1,098 | 22 | 61 | 81 | 113 | 151 | 194 | 228 | 223 |
| Illinois | 5,468 | 160 | 285 | 402 | 606 | 849 | 913 | 1,096 | 1,054 |
| Michigan | 2,125 | 60 | 97 | 169 | 244 | 351 | 404 | 417 | 360 |
| Wisconsin | 640 | 18 | 35 | 60 | 61 | 90 | 111 | 126 | 128 |
| West North Central | 3,796 | 100 | 221 | 315 | 403 | 550 | 641 | 796 | 719 |
| Minnesota | 865 | 26 | 61 | 78 | 84 | 105 | 164 | 183 | 151 |
| Iowa | 254 | 7 | 16 | 20 | 22 | 35 | 36 | 69 | 44 |
| Missouri | 1,894 | 48 | 94 | 144 | 211 | 307 | 316 | 373 | 375 |
| North Dakota | 23 | 2 | 4 | 2 | 3 | 6 | 1 | 3 | 2 |
| South Dakota | 26 | 1 | 3 | 1 | 3 | 1 | 2 | 9 | 6 |
| Nebraska | 212 | 4 | 13 | 16 | 30 | 26 | 33 | 42 | 45 |
| Kansas | 522 | 12 | 30 | 54 | 50 | 70 | 89 | 117 | 96 |
| South Atlantic | 32,412 | 1,041 | 1,826 | 2,712 | 3,622 | 4,980 | 5,761 | 6,533 | 5,206 |
| Delaware | 338 | 7 | 21 | 30 | 30 | 47 | 68 | 60 | 72 |
| Maryland | 3,375 | 120 | 181 | 276 | 355 | 544 | 627 | 717 | 485 |
| District of Columbia | 2,649 | 134 | 203 | 241 | 315 | 401 | 474 | 467 | 352 |
| Virginia | 2,354 | 80 | 141 | 208 | 284 | 334 | 406 | 478 | 376 |
| West Virginia | 203 | 6 | 8 | 12 | 12 | 36 | 46 | 48 | 30 |
| North Carolina | 1,841 | 44 | 92 | 134 | 193 | 323 | 307 | 442 | 277 |
| South Carolina | 1,201 | 30 | 46 | 81 | 119 | 161 | 244 | 273 | 230 |
| Georgia | 4,458 | 128 | 229 | 356 | 519 | 668 | 825 | 955 | 697 |
| Florida | 15,993 | 492 | 905 | 1,374 | 1,795 | 2,466 | 2,764 | 3,093 | 2,687 |
| East South Central | 3,461 | 85 | 153 | 262 | 382 | 526 | 621 | 749 | 641 |
| Kentucky | 621 | 21 | 26 | 42 | 62 | 104 | 117 | 120 | 111 |
| Tennessee | 1,127 | 27 | 65 | 84 | 118 | 151 | 205 | 260 | 208 |
| Alabama | 1,038 | 27 | 34 | 80 | 111 | 150 | 170 | 233 | 223 |
| Mississippi | 675 | 10 | 28 | 56 | 91 | 121 | 129 | 136 | 99 |
| West South Central | 15,292 | 522 | 1,001 | 1,521 | 1,895 | 2,403 | 2,739 | 2,974 | 1,913 |
| Arkansas | 472 | 10 | 24 | 37 | 64 | 83 | 74 | 104 | 74 |
| Louisiana | 2,486 | 98 | 143 | 222 | 270 | 385 | 397 | 474 | 445 |
| Oklahoma | 770 | 12 | 40 | 68 | 92 | 131 | 116 | 170 | 129 |
| Texas | 11,564 | 402 | 794 | 1,194 | 1,469 | 1,804 | 2,152 | 2,226 | 1,265 |
| Mountain | 4,609 | 136 | 284 | 408 | 539 | 663 | 824 | 915 | 748 |
| Montana | 68 | 1 | 3 | 5 | 7 | 10 | 9 | 20 | 13 |
| Idaho | 91 | 1 | 3 | 7 | 12 | 7 | 20 | 14 | 27 |
| Wyoming | 38 | 2 | 1 | 4 | 2 | 6 | 4 | 7 | 11 |
| Colorado | 1,721 | 57 | 112 | 149 | 181 | 214 | 302 | 357 | 295 |
| New Mexico | 357 | 8 | 23 | 26 | 33 | 59 | 57 | 75 | 73 |
| Arizona | 1,223 | 41 | 90 | 124 | 186 | 219 | 252 | 200 | 92 |
| Utah | 377 | 12 | 25 | 32 | 44 | 40 | 63 | 78 | 78 |
| Nevada | 734 | 14 | 27 | 61 | 74 | 108 | 117 | 164 | 159 |
| Pacific | 36,757 | 1,609 | 2,870 | 3,349 | 4,193 | 5,645 | 6,078 | 6,410 | 5,411 |
| Washington | 2,221 | 80 | 129 | 186 | 239 | 313 | 366 | 451 | 419 |
| Oregon | 1,030 | 24 | 67 | 74 | 112 | 140 | 204 | 221 | 177 |
| California | 32,821 | 1,466 | 2,632 | 3,032 | 3,753 | 5,101 | 5,396 | 5,590 | 4,720 |
| Alaska | 64 | 6 | 7 | 5 | 9 | 9 | 7 | 12 | 8 |
| Hawaii | 621 | 33 | 35 | 52 | 80 | 82 | 105 | 136 | 87 |

¹Includes cases prior to 1985.

NOTES: The AIDS case definition was changed in September 1987 to allow for the presumptive diagnosis of AIDS-associated diseases and conditions and to expand the spectrum of human immunodeficiency virus-associated diseases reportable as AIDS. The number of deaths among AIDS cases reported to the CDC AIDS Surveillance System differs from the number of HIV infection deaths based on the National Vital Statistics System. See Appendix I. Excludes residents of U.S. territories. Data are updated periodically because of reporting delays. Data for all years have been updated through December 31, 1992.

SOURCE: Centers for Disease Control and Prevention, National Center for Infectious Diseases, Division of HIV/AIDS.

Table 59. Age-adjusted cancer incidence rates for selected cancer sites, according to sex and race: Selected geographic areas, selected years 1973–90

[Data are based on the Surveillance, Epidemiology, and End Results Program's population-based registries in Atlanta, Detroit, Seattle-Puget Sound, San Francisco-Oakland, Connecticut, Iowa, New Mexico, Utah, and Hawaii]

| Race, sex, and site | 1973 | 1975 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | Estimated annual percent change ¹ |
|-----------------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|--|
| White male | Number of new cases per 100,000 population ² | | | | | | | | | |
| All sites | 363.0 | 378.5 | 405.7 | 428.1 | 434.3 | 452.5 | 448.0 | 451.8 | 464.9 | 1.3 |
| Oral cavity and pharynx | 17.5 | 18.3 | 16.9 | 16.7 | 16.2 | 17.2 | 15.4 | 15.1 | 15.8 | -0.8 |
| Esophagus | 4.8 | 4.8 | 4.9 | 5.3 | 5.2 | 5.4 | 5.4 | 5.1 | 6.0 | 0.9 |
| Stomach | 13.9 | 12.5 | 12.3 | 10.5 | 10.8 | 10.5 | 10.7 | 10.7 | 9.2 | -1.7 |
| Colon and rectum | 54.1 | 55.0 | 58.5 | 63.4 | 62.0 | 61.1 | 59.3 | 58.6 | 58.0 | 0.5 |
| Colon | 34.7 | 36.1 | 39.2 | 43.3 | 42.8 | 41.9 | 40.9 | 40.0 | 39.6 | 0.8 |
| Rectum | 19.4 | 19.0 | 19.3 | 20.0 | 19.2 | 19.2 | 18.4 | 18.6 | 18.4 | -0.3 |
| Pancreas | 12.7 | 12.4 | 11.0 | 10.6 | 10.8 | 10.5 | 10.5 | 10.0 | 9.8 | -1.0 |
| Lung and bronchus | 72.2 | 75.7 | 82.0 | 81.9 | 81.7 | 83.9 | 81.6 | 80.1 | 78.6 | 0.5 |
| Prostate gland | 62.3 | 68.8 | 78.4 | 86.4 | 90.1 | 101.9 | 104.9 | 110.2 | 128.5 | 3.5 |
| Urinary bladder | 27.2 | 28.6 | 31.3 | 31.0 | 32.1 | 33.5 | 32.7 | 31.9 | 31.6 | 1.0 |
| Non-Hodgkin's lymphoma | 10.2 | 11.4 | 12.6 | 15.9 | 16.6 | 18.2 | 17.9 | 18.1 | 19.0 | 3.9 |
| Leukemia | 14.3 | 14.1 | 14.5 | 14.2 | 14.2 | 13.8 | 13.5 | 13.5 | 12.3 | -0.5 |
| Black male | | | | | | | | | | |
| All sites | 441.2 | 437.3 | 509.1 | 529.3 | 529.8 | 544.2 | 535.3 | 533.3 | 556.3 | 1.5 |
| Oral cavity and pharynx | 16.6 | 17.3 | 23.1 | 22.5 | 24.5 | 26.2 | 22.6 | 24.3 | 24.8 | 2.2 |
| Esophagus | 13.0 | 17.4 | 16.4 | 19.5 | 21.8 | 18.2 | 16.7 | 15.7 | 19.9 | 0.7 |
| Stomach | 26.1 | 19.9 | 21.4 | 18.4 | 18.4 | 20.7 | 20.0 | 18.4 | 17.6 | -1.0 |
| Colon and rectum | 42.6 | 47.2 | 63.6 | 60.2 | 59.4 | 60.9 | 57.2 | 63.9 | 59.0 | 1.7 |
| Colon | 31.5 | 34.2 | 45.8 | 46.5 | 43.9 | 47.1 | 42.3 | 49.0 | 45.8 | 2.1 |
| Rectum | 11.1 | 13.0 | 17.7 | 13.7 | 15.5 | 13.8 | 14.9 | 14.9 | 13.1 | 0.8 |
| Pancreas | 15.8 | 15.4 | 17.6 | 19.8 | 16.2 | 16.0 | 16.9 | 12.7 | 15.0 | -0.6 |
| Lung and bronchus | 105.1 | 101.2 | 131.2 | 131.7 | 134.3 | 123.7 | 125.8 | 121.0 | 116.0 | 1.3 |
| Prostate gland | 106.4 | 111.2 | 125.7 | 131.8 | 130.8 | 144.9 | 144.3 | 144.2 | 163.6 | 2.2 |
| Urinary bladder | 10.7 | 13.7 | 14.5 | 16.0 | 17.4 | 17.4 | 14.1 | 13.9 | 14.8 | 1.1 |
| Non-Hodgkin's lymphoma | 9.0 | 7.1 | 9.3 | 9.9 | 10.9 | 9.3 | 13.0 | 11.3 | 13.6 | 3.4 |
| Leukemia | 12.0 | 12.5 | 13.0 | 12.9 | 10.5 | 13.7 | 10.7 | 12.9 | 10.4 | -0.2 |
| White female | | | | | | | | | | |
| All sites | 293.7 | 309.7 | 309.9 | 341.4 | 339.5 | 350.2 | 346.5 | 344.3 | 348.1 | 0.9 |
| Colon and rectum | 41.6 | 42.9 | 44.6 | 45.8 | 42.9 | 41.0 | 40.0 | 40.7 | 39.7 | -0.3 |
| Colon | 30.2 | 30.8 | 32.9 | 33.8 | 32.1 | 30.1 | 29.3 | 29.9 | 29.7 | -0.2 |
| Rectum | 11.4 | 12.0 | 11.8 | 11.9 | 10.8 | 10.9 | 10.7 | 10.8 | 10.0 | -0.6 |
| Pancreas | 7.4 | 7.1 | 7.3 | 8.1 | 7.8 | 7.5 | 7.6 | 7.4 | 7.6 | 0.2 |
| Lung and bronchus | 17.8 | 21.9 | 28.3 | 35.9 | 37.7 | 39.6 | 41.4 | 40.6 | 41.5 | 4.9 |
| Melanoma of skin | 5.8 | 6.9 | 9.1 | 10.2 | 10.6 | 11.0 | 10.3 | 10.7 | 10.4 | 3.5 |
| Breast | 83.9 | 89.5 | 87.1 | 106.1 | 108.7 | 116.7 | 113.3 | 109.1 | 112.7 | 1.8 |
| Cervix uteri | 12.8 | 11.1 | 9.1 | 7.6 | 8.0 | 7.4 | 7.9 | 8.2 | 8.3 | -2.6 |
| Corpus uteri | 29.4 | 33.7 | 25.3 | 23.1 | 22.3 | 22.6 | 21.3 | 22.0 | 22.7 | -2.5 |
| Ovary | 14.6 | 14.4 | 13.9 | 15.0 | 13.5 | 14.6 | 15.5 | 16.0 | 15.7 | 0.4 |
| Non-Hodgkin's lymphoma | 7.5 | 8.4 | 9.2 | 11.3 | 11.1 | 11.4 | 12.1 | 11.7 | 12.4 | 2.8 |
| Black female | | | | | | | | | | |
| All sites | 282.8 | 296.0 | 304.3 | 322.7 | 328.2 | 326.2 | 334.4 | 320.5 | 334.4 | 1.0 |
| Colon and rectum | 41.1 | 43.4 | 49.4 | 45.8 | 47.2 | 47.8 | 45.9 | 44.4 | 48.8 | 0.9 |
| Colon | 29.5 | 32.8 | 40.9 | 36.0 | 36.7 | 37.1 | 36.4 | 34.1 | 38.3 | 1.3 |
| Rectum | 11.6 | 10.6 | 8.5 | 9.9 | 10.5 | 10.7 | 9.5 | 10.2 | 10.5 | -0.0 |
| Pancreas | 11.6 | 11.8 | 13.0 | 11.3 | 13.0 | 14.8 | 14.2 | 11.1 | 10.6 | 0.5 |
| Lung and bronchus | 20.9 | 20.6 | 34.0 | 40.8 | 43.3 | 38.9 | 42.6 | 45.0 | 45.3 | 4.9 |
| Breast | 68.8 | 78.3 | 74.0 | 92.2 | 93.8 | 90.3 | 97.7 | 87.8 | 95.8 | 1.9 |
| Cervix uteri | 29.7 | 27.9 | 19.0 | 15.9 | 15.2 | 15.0 | 15.3 | 12.9 | 13.3 | -4.5 |
| Corpus uteri | 15.0 | 17.2 | 14.1 | 15.1 | 14.2 | 13.8 | 14.0 | 16.5 | 14.5 | -0.2 |
| Ovary | 10.5 | 10.1 | 10.0 | 10.0 | 9.1 | 10.0 | 10.6 | 10.7 | 10.4 | 0.2 |
| Non-Hodgkin's lymphoma | 5.5 | 4.1 | 6.2 | 6.8 | 6.8 | 8.0 | 7.2 | 7.8 | 8.5 | 3.9 |

¹The estimated annual percent change has been calculated by fitting a linear regression model to the natural logarithm of the yearly rates from 1973–90.

²Age adjusted by the direct method to the 1970 U.S. population.

SOURCE: National Cancer Institute, National Institutes of Health, Cancer Statistics Review, 1973–1990, NIH Pub. No. 93-2789. U.S. Department of Health and Human Services, Public Health Service, Bethesda, Md., 1993.

Table 60. Five-year relative cancer survival rates for selected sites, according to race and sex: Selected geographic areas, 1974–76, 1977–79, 1980–82, and 1983–89

[Data are based on the Surveillance, Epidemiology, and End Results Program's population-based registries in Atlanta, Detroit, Seattle-Puget Sound, San Francisco-Oakland, Connecticut, Iowa, New Mexico, Utah, and Hawaii]

| Sex and site | All races | | | | White | | | | Black | | | |
|-----------------------------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------------------|
| | 1974–76 | 1977–79 | 1980–82 | 1983–89 | 1974–76 | 1977–79 | 1980–82 | 1983–89 | 1974–76 | 1977–79 | 1980–82 | 1983–89 |
| Male | | | | | | | | | | | | Percent of patients |
| All sites | 40.9 | 43.0 | 44.9 | 47.8 | 42.0 | 44.3 | 46.3 | 49.6 | 31.2 | 32.1 | 33.9 | 34.4 |
| Oral cavity and pharynx | 52.3 | 51.1 | 50.7 | 49.5 | 54.5 | 53.4 | 54.0 | 52.4 | 30.8 | 30.8 | 25.5 | 27.4 |
| Esophagus | 3.5 | 4.7 | 6.0 | 8.2 | 4.2 | 5.6 | 6.7 | 9.2 | 2.1 | 2.4 | 4.6 | 6.3 |
| Stomach | 13.9 | 15.3 | 16.2 | 16.2 | 13.1 | 14.4 | 15.1 | 15.4 | 15.6 | 14.6 | 18.3 | 15.5 |
| Colon | 49.5 | 51.4 | 55.3 | 60.1 | 49.9 | 51.8 | 55.7 | 61.2 | 43.8 | 45.1 | 46.7 | 47.9 |
| Rectum | 47.4 | 48.7 | 50.1 | 56.3 | 47.8 | 49.8 | 51.2 | 57.3 | 34.1 | 38.0 | 36.1 | 42.8 |
| Pancreas | 2.9 | 2.2 | 2.8 | 2.6 | 3.2 | 2.2 | 2.7 | 2.3 | 1.2 | 2.8 | 3.7 | 4.4 |
| Lung and bronchus | 11.1 | 11.8 | 12.0 | 11.8 | 11.1 | 12.0 | 12.1 | 11.9 | 11.0 | 9.0 | 10.9 | 10.4 |
| Prostate gland | 66.7 | 70.8 | 73.1 | 77.6 | 67.7 | 71.9 | 74.2 | 79.4 | 57.8 | 62.1 | 64.2 | 64.4 |
| Urinary bladder | 73.7 | 76.3 | 79.1 | 81.0 | 74.5 | 76.7 | 79.8 | 81.5 | 54.5 | 62.4 | 62.3 | 66.9 |
| Non-Hodgkin's lymphoma | 46.9 | 45.5 | 50.0 | 49.8 | 47.7 | 46.1 | 50.7 | 50.4 | 43.1 | 42.1 | 47.1 | 41.7 |
| Leukemia | 33.0 | 35.8 | 36.8 | 37.5 | 33.5 | 36.7 | 38.0 | 38.9 | 31.9 | 29.4 | 29.3 | 29.6 |
| Female | | | | | | | | | | | | |
| All sites | 56.7 | 56.0 | 55.9 | 57.9 | 57.5 | 56.8 | 56.7 | 59.1 | 46.7 | 46.2 | 45.5 | 44.7 |
| Colon | 50.6 | 53.6 | 55.0 | 58.1 | 50.7 | 53.7 | 55.2 | 59.1 | 46.9 | 49.5 | 50.5 | 49.2 |
| Rectum | 49.4 | 50.8 | 53.9 | 57.0 | 49.7 | 51.4 | 54.6 | 57.7 | 49.3 | 38.5 | 40.3 | 47.5 |
| Pancreas | 2.1 | 2.6 | 3.4 | 3.9 | 2.1 | 2.3 | 3.0 | 3.7 | 3.1 | 4.8 | 5.9 | 5.1 |
| Lung and bronchus | 15.6 | 17.0 | 15.9 | 15.7 | 15.8 | 17.0 | 16.0 | 16.0 | 12.9 | 16.9 | 15.4 | 13.0 |
| Melanoma of skin | 84.7 | 85.8 | 87.5 | 88.4 | 84.8 | 86.1 | 87.5 | 88.5 | --- | --- | --- | 73.3 |
| Breast | 74.3 | 74.5 | 76.1 | 79.3 | 74.9 | 75.2 | 76.9 | 80.5 | 62.8 | 62.5 | 65.6 | 64.1 |
| Cervix uteri | 68.5 | 67.8 | 66.8 | 66.8 | 69.3 | 68.9 | 67.5 | 69.1 | 63.4 | 61.9 | 60.3 | 57.0 |
| Corpus uteri | 87.8 | 84.9 | 81.4 | 82.9 | 88.7 | 86.2 | 82.7 | 84.6 | 60.6 | 57.8 | 53.8 | 55.5 |
| Ovary | 36.5 | 38.1 | 38.8 | 40.6 | 36.3 | 37.5 | 38.7 | 40.2 | 40.1 | 39.8 | 37.3 | 40.2 |
| Non-Hodgkin's lymphoma | 47.3 | 50.5 | 52.5 | 53.9 | 47.4 | 50.4 | 52.6 | 54.5 | 54.1 | 58.9 | 54.7 | 46.5 |

NOTES: Rates are based on followup of patients through 1990. The rate is the ratio of the observed survival rate for the patient group to the expected survival rate for persons in the general population similar to the patient group with respect to age, sex, race, and calendar year of observation. It estimates the chance of surviving the effects of cancer.

SOURCES: National Cancer Institute, National Institutes of Health, Cancer Statistics Review, 1973–1989. NIH Pub. No. 92-2789. U.S. Department of Health and Human Services. Public Health Service. Bethesda, Md., 1992; National Cancer Institute, Division of Cancer Prevention and Control: Unpublished data.

**Table 61. Limitation of activity caused by chronic conditions, according to selected characteristics:
United States, 1986 and 1991**

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Total with limitation of activity | | Limited but not in major activity | | Limited in amount or kind of major activity | | Unable to carry on major activity | |
|------------------------------------|-----------------------------------|------|-----------------------------------|------|---|------|-----------------------------------|------|
| | 1986 | 1991 | 1986 | 1991 | 1986 | 1991 | 1986 | 1991 |
| Percent of population | | | | | | | | |
| Total 1,2..... | 13.3 | 13.5 | 4.2 | 4.3 | 5.4 | 5.2 | 3.7 | 4.0 |
| Age | | | | | | | | |
| Under 15 years..... | 4.8 | 5.4 | 1.2 | 1.3 | 3.2 | 3.7 | 0.4 | 0.5 |
| Under 5 years..... | 2.5 | 2.4 | 0.6 | 0.7 | 1.3 | 1.2 | 0.6 | 0.5 |
| 5-14 years | 6.1 | 7.1 | 1.6 | 1.6 | 4.2 | 5.0 | 0.3 | 0.4 |
| 15-44 years | 8.4 | 9.1 | 2.8 | 2.9 | 3.5 | 3.6 | 2.0 | 2.6 |
| 45-64 years | 23.2 | 22.2 | 5.4 | 5.9 | 9.1 | 7.6 | 8.6 | 8.7 |
| 65 years and over..... | 38.8 | 37.9 | 16.1 | 15.6 | 12.1 | 11.7 | 10.7 | 10.6 |
| 65-74 years..... | 35.5 | 33.7 | 14.2 | 13.9 | 10.5 | 9.6 | 10.7 | 10.2 |
| 75 years and over | 44.3 | 44.2 | 19.1 | 18.1 | 14.5 | 14.9 | 10.6 | 11.2 |
| Sex ¹ | | | | | | | | |
| Male..... | 13.4 | 13.7 | 3.8 | 4.1 | 5.2 | 5.0 | 4.4 | 4.6 |
| Female..... | 13.2 | 13.3 | 4.5 | 4.5 | 5.5 | 5.3 | 3.2 | 3.5 |
| Race ¹ | | | | | | | | |
| White..... | 13.2 | 13.4 | 4.3 | 4.4 | 5.5 | 5.2 | 3.4 | 3.8 |
| Black..... | 16.1 | 15.8 | 3.8 | 3.7 | 5.8 | 5.9 | 6.6 | 6.3 |
| Family income ^{1,3} | | | | | | | | |
| Less than \$14,000..... | 23.0 | 24.0 | 5.5 | 5.5 | 8.5 | 8.6 | 9.0 | 10.0 |
| \$14,000-\$24,999..... | 15.5 | 15.3 | 4.4 | 4.5 | 6.2 | 6.2 | 4.9 | 4.7 |
| \$25,000-\$34,999..... | 11.2 | 11.7 | 3.6 | 3.9 | 5.0 | 4.8 | 2.6 | 3.1 |
| \$35,000-\$49,999..... | 10.2 | 10.3 | 3.2 | 3.9 | 4.6 | 4.0 | 2.4 | 2.4 |
| \$50,000 or more..... | 9.6 | 9.0 | 3.9 | 3.5 | 3.9 | 3.7 | 1.7 | 1.9 |
| Geographic region ¹ | | | | | | | | |
| Northeast..... | 11.5 | 11.6 | 3.7 | 3.6 | 4.3 | 4.4 | 3.5 | 3.6 |
| Midwest..... | 13.7 | 13.6 | 4.3 | 4.3 | 6.1 | 5.8 | 3.4 | 3.5 |
| South..... | 14.8 | 14.7 | 4.4 | 4.4 | 5.9 | 5.7 | 4.5 | 4.7 |
| West..... | 12.5 | 13.6 | 4.2 | 4.8 | 5.1 | 4.8 | 3.3 | 4.0 |
| Location of residence ¹ | | | | | | | | |
| Within MSA..... | 12.8 | 13.1 | 4.0 | 4.1 | 5.2 | 5.1 | 3.6 | 3.9 |
| Outside MSA..... | 15.1 | 15.1 | 4.6 | 4.7 | 6.3 | 5.7 | 4.3 | 4.7 |

¹Age adjusted.

²Includes all other races not shown separately and unknown family income.

³Family income categories for 1991. Income categories for 1986 are: less than \$11,000; \$11,000-\$19,999; \$20,000-\$29,999; \$30,000-\$39,999; and \$40,000 or more.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Interview Statistics: Data from the National Health Interview Survey.

Table 62. Disability days associated with acute conditions and incidence of acute conditions, according to age: United States, 1983–91

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Age | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | |
|--|-------|------------------------|-------|-------|-------|-------|-------|-------|-------|--|
| Restricted-activity days | | Number per person | | | | | | | | |
| All ages ¹ | 7.2 | 7.4 | 6.8 | 7.7 | 6.8 | 7.1 | 7.5 | 7.0 | 7.4 | |
| Under 15 years | 8.2 | 7.9 | 6.9 | 8.2 | 7.5 | 8.1 | 8.4 | 7.6 | 8.4 | |
| Under 5 years | 9.5 | 8.8 | 7.5 | 9.0 | 9.4 | 9.7 | 9.6 | 9.5 | 10.0 | |
| 5–14 years | 7.5 | 7.4 | 6.7 | 7.8 | 6.6 | 7.2 | 7.8 | 6.5 | 7.5 | |
| 15–44 years | 6.6 | 7.1 | 6.5 | 7.0 | 6.5 | 6.7 | 7.3 | 6.9 | 6.8 | |
| 45–64 years | 6.3 | 6.6 | 6.0 | 7.0 | 6.1 | 5.8 | 5.9 | 5.8 | 6.4 | |
| 65 years and over | 9.2 | 9.1 | 9.6 | 10.2 | 8.0 | 8.2 | 9.1 | 8.7 | 8.8 | |
| 65–74 years | 8.7 | 8.3 | 8.9 | 10.2 | 8.2 | 7.3 | 8.2 | 7.6 | 8.2 | |
| 75 years and over | 10.1 | 10.2 | 10.9 | 10.1 | 7.7 | 9.6 | 10.4 | 10.3 | 9.6 | |
| Bed-disability days ² | | Number per person | | | | | | | | |
| All ages ¹ | 3.4 | 3.3 | 3.1 | 3.4 | 3.0 | 3.1 | 3.5 | 3.1 | 3.2 | |
| Under 15 years | 4.0 | 3.6 | 3.4 | 3.8 | 3.4 | 3.9 | 4.2 | 3.5 | 3.7 | |
| Under 5 years | 4.7 | 3.8 | 3.5 | 3.9 | 4.4 | 4.9 | 4.5 | 4.5 | 4.2 | |
| 5–14 years | 3.6 | 3.5 | 3.3 | 3.8 | 2.8 | 3.4 | 4.0 | 3.0 | 3.4 | |
| 15–44 years | 3.0 | 3.2 | 2.8 | 3.1 | 2.8 | 2.8 | 3.2 | 3.0 | 2.9 | |
| 45–64 years | 2.8 | 2.6 | 2.7 | 3.1 | 2.6 | 2.4 | 2.8 | 2.7 | 2.7 | |
| 65 years and over | 4.5 | 3.9 | 3.9 | 4.6 | 3.4 | 3.4 | 4.2 | 3.2 | 3.6 | |
| 65–74 years | 4.4 | 3.7 | 2.8 | 3.9 | 3.7 | 3.1 | 3.6 | 2.6 | 3.5 | |
| 75 years and over | 4.7 | 4.3 | 5.7 | 5.5 | 3.0 | 4.0 | 5.0 | 4.0 | 3.8 | |
| Incidence of acute conditions ³ | | Number per 100 persons | | | | | | | | |
| All ages ¹ | 182.9 | 184.9 | 183.1 | 189.5 | 180.8 | 184.8 | 190.5 | 181.2 | 201.7 | |
| Under 15 years | 288.1 | 289.3 | 280.0 | 302.7 | 281.7 | 296.5 | 299.7 | 288.1 | 318.3 | |
| Under 5 years | 354.5 | 345.1 | 334.6 | 360.4 | 358.9 | 362.8 | 369.5 | 365.0 | 390.7 | |
| 5–14 years | 252.8 | 259.2 | 250.9 | 271.7 | 240.4 | 261.3 | 262.3 | 246.9 | 279.6 | |
| 15–44 years | 165.1 | 172.2 | 170.1 | 180.5 | 168.7 | 162.6 | 173.5 | 157.0 | 176.6 | |
| 45–64 years | 109.3 | 104.4 | 112.9 | 125.1 | 101.4 | 107.9 | 113.6 | 114.4 | 128.4 | |
| 65 years and over | 100.9 | 98.8 | 98.4 | 119.5 | 100.4 | 108.9 | 100.2 | 105.8 | 115.7 | |
| 65–74 years | 103.1 | 97.4 | 98.9 | 118.2 | 94.8 | 107.8 | 97.4 | 108.2 | 113.6 | |
| 75 years and over | 97.3 | 101.0 | 97.7 | 121.5 | 109.4 | 110.6 | 104.6 | 102.1 | 118.9 | |

¹Age adjusted.

²A subset of restricted-activity days.

³Excludes conditions involving neither medical attention nor activity restriction.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Interview Statistics: Data from the National Health Interview Survey.

Table 63. Self-assessment of health, according to selected characteristics: United States, 1986 and 1991

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Total | Excellent | | Very good | | Good | | Fair or poor | |
|------------------------------------|-------|-----------|------|-----------|------|------|------|--------------|------|
| | | 1986 | 1991 | 1986 | 1991 | 1986 | 1991 | 1986 | 1991 |
| Percent distribution ¹ | | | | | | | | | |
| Total ^{2,3} | 100.0 | 40.2 | 39.7 | 27.3 | 28.5 | 22.9 | 22.6 | 9.6 | 9.3 |
| Age | | | | | | | | | |
| Under 15 years..... | 100.0 | 52.7 | 52.3 | 27.3 | 28.0 | 17.5 | 17.3 | 2.6 | 2.5 |
| Under 5 years..... | 100.0 | 53.8 | 52.8 | 26.5 | 27.7 | 16.9 | 16.8 | 2.8 | 2.6 |
| 5–14 years..... | 100.0 | 52.0 | 52.0 | 27.7 | 28.1 | 17.9 | 17.5 | 2.4 | 2.4 |
| 15–44 years..... | 100.0 | 43.9 | 42.0 | 29.4 | 31.0 | 21.2 | 21.2 | 5.5 | 5.8 |
| 45–64 years..... | 100.0 | 26.6 | 28.5 | 26.1 | 26.7 | 29.2 | 28.1 | 18.2 | 16.7 |
| 65 years and over..... | 100.0 | 16.4 | 15.7 | 20.8 | 22.8 | 32.9 | 32.4 | 29.9 | 29.0 |
| 65–74 years..... | 100.0 | 17.2 | 17.1 | 21.5 | 24.5 | 33.8 | 32.3 | 27.5 | 26.0 |
| 75 years and over..... | 100.0 | 15.1 | 13.7 | 19.7 | 20.2 | 31.5 | 32.6 | 33.7 | 33.6 |
| Sex ² | | | | | | | | | |
| Male..... | 100.0 | 42.8 | 41.7 | 26.6 | 28.1 | 21.5 | 21.3 | 9.1 | 8.9 |
| Female..... | 100.0 | 37.7 | 37.7 | 28.0 | 28.7 | 24.3 | 23.8 | 10.1 | 9.7 |
| Race ² | | | | | | | | | |
| White..... | 100.0 | 41.8 | 41.2 | 28.0 | 28.9 | 21.6 | 21.3 | 8.7 | 8.6 |
| Black..... | 100.0 | 29.6 | 30.4 | 22.7 | 25.3 | 30.5 | 29.2 | 17.2 | 15.1 |
| Family income ^{2,4} | | | | | | | | | |
| Less than \$14,000..... | 100.0 | 28.4 | 25.9 | 22.7 | 25.3 | 29.0 | 28.9 | 19.9 | 19.9 |
| \$14,000–\$24,999..... | 100.0 | 33.6 | 34.0 | 27.6 | 28.5 | 26.5 | 26.7 | 12.3 | 10.8 |
| \$25,000–\$34,999..... | 100.0 | 42.1 | 40.8 | 27.9 | 29.2 | 22.7 | 22.8 | 7.4 | 7.1 |
| \$35,000–\$49,999..... | 100.0 | 44.2 | 43.7 | 29.9 | 31.4 | 19.8 | 19.5 | 6.1 | 5.5 |
| \$50,000 or more..... | 100.0 | 52.2 | 52.1 | 27.6 | 28.2 | 16.3 | 15.8 | 3.9 | 3.9 |
| Geographic region ² | | | | | | | | | |
| Northeast..... | 100.0 | 39.1 | 42.2 | 29.9 | 28.5 | 22.3 | 21.8 | 8.8 | 7.4 |
| Midwest..... | 100.0 | 41.2 | 40.9 | 27.6 | 29.9 | 22.8 | 21.1 | 8.4 | 8.1 |
| South..... | 100.0 | 37.0 | 36.2 | 26.5 | 27.5 | 24.5 | 24.5 | 12.0 | 11.7 |
| West..... | 100.0 | 45.7 | 41.3 | 25.7 | 28.1 | 20.8 | 22.0 | 7.8 | 8.8 |
| Location of residence ² | | | | | | | | | |
| Within MSA..... | 100.0 | 41.2 | 40.6 | 27.6 | 28.4 | 22.1 | 22.1 | 9.0 | 8.9 |
| Outside MSA..... | 100.0 | 36.9 | 36.3 | 26.0 | 28.7 | 25.6 | 24.2 | 11.4 | 10.7 |

¹Denominator excludes unknown health status.

²Age adjusted.

³Includes all other races not shown separately and unknown family income.

⁴Family income categories for 1991. Income categories for 1986 are: less than \$11,000; \$11,000–\$19,999; \$20,000–\$29,999; \$30,000–\$39,999; and \$40,000 or more.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Interview Statistics: Data from the National Health Interview Survey.

**Table 64. Current cigarette smoking by persons 18 years of age and over, according to sex, race, and age:
United States, selected years 1965–91**

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Sex, race, and age | 1965 | 1974 | 1979 | 1983 | 1985 | 1987 | 1988 | 1990 | 1991 |
|---|------|------|------|------|------|------|------|------|------|
| Percent of persons 18 years of age and over | | | | | | | | | |
| All persons | | | | | | | | | |
| 18 years and over, age adjusted | 42.3 | 37.2 | 33.5 | 32.2 | 30.0 | 28.7 | 27.9 | 25.4 | 25.4 |
| 18 years and over, crude | 42.4 | 37.1 | 33.5 | 32.1 | 30.1 | 28.8 | 28.1 | 25.5 | 25.6 |
| All males | | | | | | | | | |
| 18 years and over, age adjusted | 51.6 | 42.9 | 37.2 | 34.7 | 32.1 | 31.0 | 30.1 | 28.0 | 27.5 |
| 18 years and over, crude | 51.9 | 43.1 | 37.5 | 35.1 | 32.6 | 31.2 | 30.8 | 28.4 | 28.1 |
| 18–24 years | 54.1 | 42.1 | 35.0 | 32.9 | 28.0 | 28.2 | 25.5 | 26.6 | 23.5 |
| 25–34 years | 60.7 | 50.5 | 43.9 | 38.8 | 38.2 | 34.8 | 36.2 | 31.6 | 32.8 |
| 35–44 years | 58.2 | 51.0 | 41.8 | 41.0 | 37.6 | 36.6 | 36.5 | 34.5 | 33.1 |
| 45–64 years | 51.9 | 42.6 | 39.3 | 35.9 | 33.4 | 33.5 | 31.3 | 29.3 | 29.3 |
| 65 years and over | 28.5 | 24.8 | 20.9 | 22.0 | 19.6 | 17.2 | 18.0 | 14.6 | 15.1 |
| White: | | | | | | | | | |
| 18 years and over, age adjusted | 50.8 | 41.7 | 36.5 | 34.1 | 31.3 | 30.4 | 29.5 | 27.6 | 27.0 |
| 18 years and over, crude | 51.1 | 41.9 | 36.8 | 34.5 | 31.7 | 30.5 | 30.1 | 28.0 | 27.4 |
| 18–24 years | 53.0 | 40.8 | 34.3 | 32.5 | 28.4 | 29.2 | 26.7 | 27.4 | 25.1 |
| 25–34 years | 60.1 | 49.5 | 43.6 | 38.6 | 37.3 | 33.8 | 35.4 | 31.6 | 32.1 |
| 35–44 years | 57.3 | 50.1 | 41.3 | 40.8 | 36.6 | 36.2 | 35.8 | 33.5 | 32.1 |
| 45–64 years | 51.3 | 41.2 | 38.3 | 35.0 | 32.1 | 32.4 | 30.0 | 28.7 | 28.0 |
| 65 years and over | 27.7 | 24.3 | 20.5 | 20.6 | 18.9 | 16.0 | 16.9 | 13.7 | 14.2 |
| Black: | | | | | | | | | |
| 18 years and over, age adjusted | 59.2 | 54.0 | 44.1 | 41.3 | 39.9 | 39.0 | 36.5 | 32.2 | 34.7 |
| 18 years and over, crude | 60.4 | 54.3 | 44.1 | 40.6 | 39.9 | 39.0 | 36.5 | 32.5 | 35.0 |
| 18–24 years | 62.8 | 54.9 | 40.2 | 34.2 | 27.2 | 24.9 | 18.6 | 21.3 | 15.0 |
| 25–34 years | 68.4 | 58.5 | 47.5 | 39.9 | 45.6 | 44.9 | 41.6 | 33.8 | 39.4 |
| 35–44 years | 67.3 | 61.5 | 48.6 | 45.5 | 45.0 | 44.0 | 42.5 | 42.0 | 44.4 |
| 45–64 years | 57.9 | 57.8 | 50.0 | 44.8 | 46.1 | 44.3 | 43.2 | 36.7 | 42.0 |
| 65 years and over | 36.4 | 29.7 | 26.2 | 38.9 | 27.7 | 30.3 | 29.8 | 21.5 | 24.3 |
| All females | | | | | | | | | |
| 18 years and over, age adjusted | 34.0 | 32.5 | 30.3 | 29.9 | 28.2 | 26.7 | 26.0 | 23.1 | 23.6 |
| 18 years and over, crude | 33.9 | 32.1 | 29.9 | 29.5 | 27.9 | 26.5 | 25.7 | 22.8 | 23.5 |
| 18–24 years | 38.1 | 34.1 | 33.8 | 35.5 | 30.4 | 26.1 | 26.3 | 22.5 | 22.4 |
| 25–34 years | 43.7 | 38.8 | 33.7 | 32.6 | 32.0 | 31.8 | 31.3 | 28.2 | 28.4 |
| 35–44 years | 43.7 | 39.8 | 37.0 | 33.8 | 31.5 | 29.6 | 27.8 | 24.8 | 27.6 |
| 45–64 years | 32.0 | 33.4 | 30.7 | 31.0 | 29.9 | 28.6 | 27.7 | 24.8 | 24.6 |
| 65 years and over | 9.6 | 12.0 | 13.2 | 13.1 | 13.5 | 13.7 | 12.8 | 11.5 | 12.0 |
| White: | | | | | | | | | |
| 18 years and over, age adjusted | 34.3 | 32.3 | 30.6 | 30.1 | 28.3 | 27.2 | 26.2 | 23.9 | 24.2 |
| 18 years and over, crude | 34.0 | 31.7 | 30.1 | 29.4 | 27.7 | 26.7 | 25.7 | 23.4 | 23.7 |
| 18–24 years | 38.4 | 34.0 | 34.5 | 36.5 | 31.8 | 27.8 | 27.5 | 25.4 | 25.1 |
| 25–34 years | 43.4 | 38.6 | 34.1 | 32.2 | 32.0 | 31.9 | 31.0 | 28.5 | 28.4 |
| 35–44 years | 43.9 | 39.3 | 37.2 | 34.8 | 31.0 | 29.2 | 28.3 | 25.0 | 27.0 |
| 45–64 years | 32.7 | 33.0 | 30.6 | 30.6 | 29.7 | 29.0 | 27.7 | 25.4 | 25.3 |
| 65 years and over | 9.8 | 12.3 | 13.8 | 13.2 | 13.3 | 13.9 | 12.6 | 11.5 | 12.1 |
| Black: | | | | | | | | | |
| 18 years and over, age adjusted | 32.1 | 35.9 | 30.8 | 31.8 | 30.7 | 27.2 | 27.1 | 20.4 | 23.1 |
| 18 years and over, crude | 33.7 | 36.4 | 31.1 | 32.2 | 31.0 | 28.0 | 27.8 | 21.2 | 24.4 |
| 18–24 years | 37.1 | 35.6 | 31.8 | 32.0 | 23.7 | 20.4 | 21.8 | 10.0 | 11.8 |
| 25–34 years | 47.8 | 42.2 | 35.2 | 38.0 | 36.2 | 35.8 | 37.2 | 29.1 | 32.4 |
| 35–44 years | 42.8 | 46.4 | 37.7 | 32.7 | 40.2 | 35.3 | 27.6 | 25.5 | 35.3 |
| 45–64 years | 25.7 | 38.9 | 34.2 | 36.3 | 33.4 | 28.4 | 29.5 | 22.6 | 23.4 |
| 65 years and over | 7.1 | 8.9 | 8.5 | 13.1 | 14.5 | 11.7 | 14.8 | 11.1 | 9.6 |

NOTES: A current smoker is a person who has ever smoked at least 100 cigarettes in their lifetime and who now smokes; includes occasional smokers. Excludes unknown smoking status.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Interview Statistics: Data from the National Health Interview Survey; Data computed by the Division of Epidemiology and Health Promotion from data compiled by the Division of Health Interview Statistics.

Table 65. Age-adjusted prevalence of current cigarette smoking by persons 25 years of age and over, according to sex, race, and education: United States, selected years 1974–91

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Sex, race, and education | 1974 | 1979 | 1983 | 1985 | 1987 | 1988 | 1990 | 1991 |
|---|-------|-------|-------|-------|------|------|------|------|
| Percent of persons 25 years of age and over, age adjusted | | | | | | | | |
| All persons ¹ | 37.1 | 33.3 | 31.7 | 30.2 | 29.1 | 28.4 | 25.6 | 26.0 |
| Less than 12 years. | 43.8 | 41.1 | 40.8 | 41.0 | 40.6 | 39.4 | 36.7 | 37.4 |
| 12 years | 36.4 | 33.7 | 33.6 | 32.1 | 31.8 | 31.8 | 29.3 | 29.7 |
| 13–15 years | 35.8 | 33.2 | 30.3 | 29.7 | 27.2 | 26.4 | 23.5 | 24.7 |
| 16 or more years. | 27.5 | 22.8 | 20.7 | 18.6 | 16.7 | 16.3 | 14.1 | 13.9 |
| All males ¹ | 43.0 | 37.6 | 35.1 | 32.9 | 31.5 | 31.1 | 28.3 | 28.4 |
| Less than 12 years. | 52.4 | 48.1 | 47.2 | 46.0 | 45.7 | 44.9 | 41.8 | 42.4 |
| 12 years | 42.6 | 39.1 | 37.4 | 35.6 | 35.2 | 35.2 | 33.2 | 32.9 |
| 13–15 years | 41.6 | 36.5 | 33.0 | 33.0 | 28.4 | 29.0 | 25.9 | 27.2 |
| 16 or more years. | 28.6 | 23.1 | 21.8 | 19.7 | 17.3 | 17.2 | 14.6 | 14.8 |
| White males ¹ | 41.9 | 36.9 | 34.5 | 31.9 | 30.6 | 30.1 | 27.7 | 27.3 |
| Less than 12 years. | 51.6 | 48.0 | 47.9 | 45.2 | 45.3 | 44.8 | 41.7 | 41.8 |
| 12 years | 42.2 | 38.6 | 37.1 | 34.8 | 34.6 | 34.2 | 33.0 | 32.4 |
| 13–15 years | 41.4 | 36.4 | 32.6 | 32.3 | 28.0 | 28.2 | 25.4 | 26.0 |
| 16 or more years. | 28.1 | 22.8 | 21.1 | 19.2 | 17.4 | 17.1 | 14.5 | 14.7 |
| Black males ¹ | 53.8 | 44.9 | 42.8 | 42.5 | 41.9 | 40.3 | 34.5 | 38.8 |
| Less than 12 years. | 58.3 | 50.1 | 46.0 | 51.1 | 49.4 | 45.3 | 41.4 | 47.8 |
| 12 years | *51.2 | 48.4 | 47.2 | 41.9 | 43.6 | 48.3 | 37.4 | 39.6 |
| 13–15 years | *45.7 | 39.3 | 44.7 | 42.3 | 32.4 | 34.8 | 28.3 | 32.7 |
| 16 or more years. | *41.8 | *37.9 | *31.3 | *32.0 | 20.9 | 21.5 | 20.6 | 18.3 |
| All females ¹ | 32.2 | 29.6 | 28.8 | 27.8 | 26.9 | 25.9 | 23.2 | 23.9 |
| Less than 12 years. | 36.8 | 35.0 | 35.3 | 36.7 | 36.1 | 34.5 | 32.1 | 33.0 |
| 12 years | 32.5 | 29.9 | 30.9 | 29.6 | 29.2 | 29.1 | 26.3 | 27.1 |
| 13–15 years | 30.2 | 30.0 | 27.5 | 26.7 | 26.0 | 24.1 | 21.1 | 22.5 |
| 16 or more years. | 26.1 | 22.5 | 19.2 | 17.4 | 16.1 | 15.3 | 13.6 | 12.8 |
| White females ¹ | 31.9 | 29.8 | 28.8 | 27.6 | 27.0 | 25.9 | 23.6 | 24.0 |
| Less than 12 years. | 37.0 | 36.1 | 35.5 | 37.1 | 37.0 | 35.2 | 33.6 | 33.7 |
| 12 years | 32.1 | 29.9 | 30.9 | 29.4 | 29.4 | 29.3 | 26.8 | 27.5 |
| 13–15 years | 30.5 | 30.6 | 28.0 | 27.1 | 26.2 | 23.8 | 21.4 | 22.3 |
| 16 or more years. | 25.8 | 21.9 | 18.9 | 16.8 | 16.4 | 15.1 | 13.7 | 13.3 |
| Black females ¹ | 35.9 | 30.6 | 31.8 | 32.1 | 28.6 | 28.2 | 22.6 | 25.5 |
| Less than 12 years. | 36.4 | 31.9 | 36.9 | 39.2 | 35.0 | 33.9 | 26.8 | 33.3 |
| 12 years | 41.9 | 33.0 | 35.2 | 32.3 | 28.1 | 30.1 | 24.0 | 26.0 |
| 13–15 years | 33.2 | *28.8 | 26.5 | 23.7 | 27.2 | 26.8 | 23.1 | 24.8 |
| 16 or more years. | *35.2 | *43.4 | *38.7 | 27.5 | 19.5 | 22.2 | 16.9 | 14.4 |

¹Includes unknown education.

*For age groups where percent smoking was 0 or 100 the age-adjustment procedure was modified to substitute the percent from the next lower education group. These age-adjusted percents should be considered unreliable because of small sample size.

NOTES: A current smoker is a person who has ever smoked at least 100 cigarettes in their lifetime and who now smokes; includes occasional smokers. Excludes unknown smoking status.

SOURCE: Data computed by the Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Epidemiology and Health Promotion from data compiled by the Division of Health Interview Statistics.

Table 66 (page 1 of 2). Use of selected substances in the past month by youths 12–17 years of age and young adults 18–25 years of age, according to age, sex, race, and Hispanic origin: United States, selected years 1974–91

[Data are based on household interviews of a sample of the population 12 years of age and over in the coterminous United States]

| Substance, age, sex, race, and Hispanic origin | 1974 | 1976 | 1977 | 1979 | 1982 | 1985 | 1988 | 1990 | 1991 |
|---|------|------|------|-------|------|------|------|------|------|
| Cigarettes | | | | | | | | | |
| Percent of population | | | | | | | | | |
| 12–17 years | 25 | 23 | 22 | (1) | 15 | 15 | 12 | 12 | 11 |
| 12–13 years | 13 | 11 | 10 | { 1 } | *3 | 6 | 3 | 2 | 3 |
| 14–15 years | 25 | 20 | 22 | { 1 } | 10 | 14 | 11 | 14 | 9 |
| 16–17 years | 38 | 39 | 35 | { 1 } | 30 | 25 | 20 | 18 | 21 |
| Male | 27 | 21 | 23 | { 1 } | 16 | 16 | 12 | 12 | 12 |
| Female | 24 | 26 | 22 | { 1 } | 13 | 15 | 11 | 11 | 10 |
| White, non-Hispanic | — | — | — | — | — | 17 | 14 | 14 | 13 |
| Black, non-Hispanic | — | — | — | — | — | 9 | 5 | 4 | 4 |
| Hispanic | — | — | — | — | — | 11 | 8 | 11 | 9 |
| 18–25 years | 49 | 49 | 47 | (1) | 40 | 37 | 35 | 32 | 32 |
| Male | 50 | 52 | 49 | { 1 } | 37 | 38 | 36 | 36 | 32 |
| Female | 47 | 46 | 46 | { 1 } | 42 | 35 | 35 | 27 | 32 |
| White, non-Hispanic | — | — | — | — | — | 38 | 37 | 35 | 36 |
| Black, non-Hispanic | — | — | — | — | — | 34 | 30 | 21 | 22 |
| Hispanic | — | — | — | — | — | 30 | 28 | 25 | 25 |
| Alcohol ² | | | | | | | | | |
| 12–17 years | 34 | 32 | 31 | 37 | 27 | 31 | 25 | 25 | 20 |
| 12–13 years | 19 | 19 | 13 | 20 | 10 | 11 | 7 | 8 | 7 |
| 14–15 years | 32 | 31 | 28 | 36 | 23 | 35 | 23 | 26 | 19 |
| 16–17 years | 51 | 47 | 52 | 55 | 45 | 46 | 42 | 38 | 35 |
| Male | 39 | 36 | 37 | 39 | 27 | 34 | 27 | 25 | 22 |
| Female | 29 | 29 | 25 | 36 | 27 | 28 | 23 | 24 | 18 |
| White, non-Hispanic | — | — | — | — | — | 34 | 27 | 28 | 20 |
| Black, non-Hispanic | — | — | — | — | — | 21 | 16 | 15 | 20 |
| Hispanic | — | — | — | — | — | 22 | 25 | 19 | 23 |
| 18–25 years | 69 | 69 | 70 | 76 | 68 | 71 | 65 | 63 | 64 |
| Male | — | 79 | 82 | 84 | 75 | 78 | 75 | 74 | 70 |
| Female | — | 58 | 59 | 68 | 61 | 64 | 57 | 53 | 58 |
| White, non-Hispanic | — | — | — | — | — | 76 | 69 | 66 | 67 |
| Black, non-Hispanic | — | — | — | — | — | 57 | 50 | 59 | 56 |
| Hispanic | — | — | — | — | — | 58 | 61 | 57 | 53 |
| Marijuana | | | | | | | | | |
| 12–17 years | 12 | 12 | 17 | 17 | 12 | 12 | 6 | 5 | 4 |
| 12–13 years | *2 | *3 | *4 | 4 | *2 | *4 | 1 | * | * |
| 14–15 years | 12 | 13 | 16 | 17 | 8 | 11 | 5 | 5 | 4 |
| 16–17 years | 20 | 21 | 30 | 28 | 23 | 21 | 12 | 10 | 9 |
| Male | 12 | 14 | 20 | 19 | 13 | 13 | 6 | 6 | 5 |
| Female | 11 | 11 | 13 | 14 | 10 | 11 | 7 | 4 | 4 |
| White, non-Hispanic | — | — | — | — | — | 13 | 7 | 6 | 4 |
| Black, non-Hispanic | — | — | — | — | — | 8 | 4 | 3 | 5 |
| Hispanic | — | — | — | — | — | 9 | 5 | 4 | 5 |
| 18–25 years | 25 | 25 | 27 | 35 | 27 | 22 | 15 | 13 | 13 |
| Male | — | 31 | 35 | 45 | 36 | 27 | 20 | 17 | 16 |
| Female | — | 19 | 20 | 26 | 19 | 17 | 11 | 9 | 11 |
| White, non-Hispanic | — | — | — | — | — | 22 | 16 | 14 | 14 |
| Black, non-Hispanic | — | — | — | — | — | 24 | 15 | 13 | 15 |
| Hispanic | — | — | — | — | — | 15 | 14 | 8 | 9 |
| Cocaine | | | | | | | | | |
| 12–17 years | *1.0 | *1.0 | *0.8 | 1.4 | 1.6 | 1.5 | 1.1 | 0.6 | 0.4 |
| Male | — | — | — | — | 1.8 | 2.0 | 0.9 | 0.7 | 0.5 |
| Female | — | — | — | — | *1.5 | *1.0 | 1.4 | * | 0.3 |
| White, non-Hispanic | — | — | — | — | — | 1.5 | 1.3 | 0.4 | *0.3 |
| Black, non-Hispanic | — | — | — | — | — | 1.0 | * | * | *0.5 |
| Hispanic | — | — | — | — | — | 2.5 | 1.3 | * | 1.3 |

See footnotes at end of table.

Table 66 (page 2 of 2). Use of selected substances in the past month by youths 12–17 years of age and young adults 18–25 years of age, according to age, sex, race, and Hispanic origin: United States, selected years 1974–91

[Data are based on household interviews of a sample of the population 12 years of age and over in the coterminous United States]

| <i>Substance, age, sex, race, and Hispanic origin</i> | 1974 | 1976 | 1977 | 1979 | 1982 | 1985 | 1988 | 1990 | 1991 |
|---|------|------|------|-----------------------|------|------|------|------|------|
| Cocaine—Con. | | | | | | | | | |
| | | | | Percent of population | | | | | |
| 18–25 years | 3.1 | 2.0 | 3.7 | 9.3 | 6.8 | 7.6 | 4.5 | 2.2 | 2.0 |
| Male | --- | --- | --- | --- | 9.1 | 9.0 | 6.0 | 2.8 | 2.8 |
| Female | --- | --- | --- | --- | 4.7 | 6.3 | 3.0 | 1.6 | 1.3 |
| White, non-Hispanic | --- | --- | --- | --- | --- | 8.1 | 4.1 | 1.9 | 1.7 |
| Black, non-Hispanic | --- | --- | --- | --- | --- | 6.4 | 4.3 | 3.6 | 3.1 |
| Hispanic | --- | --- | --- | --- | --- | 6.6 | 6.7 | 3.1 | 2.7 |

¹Data not comparable because definitions differ.

²In surveys conducted in 1979 and later years, private answer sheets were used for alcohol questions; prior to 1979, respondents answered questions aloud.

*Relative standard error greater than 30 percent. Estimates with relative standard error greater than 50 percent are not shown.

SOURCES: National Institute on Drug Abuse: National Household Survey on Drug Abuse: Main Findings, 1979, by P. M. Fishburne, H. I. Abelson, and I. Cisin. DHHS Pub. No. (ADM) 80-976. Alcohol, Drug Abuse, and Mental Health Administration. Washington. U.S. Government Printing Office, 1980; National Household Survey on Drug Abuse: Main Findings, 1982, by J. D. Miller et al. DHHS Pub. No. (ADM) 83-1263. Alcohol, Drug Abuse, and Mental Health Administration. Washington. U.S. Government Printing Office, 1983; National Household Survey on Drug Abuse: Main Findings, 1985. DHHS Pub. No. (ADM) 88-1586. National Household Survey on Drug Abuse: Main Findings, 1988; National Household Survey on Drug Abuse: Main Findings, 1990; and National Household Survey on Drug Abuse: Main Findings, 1991.

Table 67. Use of selected substances in the past month by high school seniors, according to sex, race, and average parental education: United States, 1980–91

[Data are based on a survey of high school seniors in the coterminous United States]

| Substance, sex, race, and average parental education | Class of | | | | | | | | | | | |
|--|---|------|------|------|------|------|------|------|------|------|------|------|
| | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 |
| Cigarettes | Percent using substance in the past month | | | | | | | | | | | |
| All seniors | 30.5 | 29.4 | 30.0 | 30.3 | 29.3 | 30.1 | 29.6 | 29.4 | 28.7 | 28.6 | 29.4 | 28.3 |
| Male | 26.8 | 26.5 | 26.8 | 28.0 | 25.9 | 28.2 | 27.9 | 27.0 | 28.0 | 27.7 | 29.1 | 29.0 |
| Female | 33.4 | 31.6 | 32.6 | 31.6 | 31.9 | 31.4 | 30.6 | 31.4 | 28.9 | 29.0 | 29.2 | 27.5 |
| White..... | 31.0 | 30.1 | 31.3 | 31.3 | 31.0 | 31.7 | 32.0 | 32.2 | 32.3 | 32.1 | 32.5 | 31.8 |
| Black..... | 25.2 | 22.3 | 21.2 | 21.2 | 17.6 | 18.7 | 14.6 | 13.9 | 12.8 | 12.4 | 12.0 | 9.4 |
| Average parental education 1: | | | | | | | | | | | | |
| Less than high school | 32.7 | 32.5 | 32.6 | 32.7 | 33.6 | 32.3 | 28.6 | 28.8 | 28.1 | 25.4 | 26.3 | 31.3 |
| High school graduate | 34.2 | 31.7 | 32.0 | 32.2 | 31.8 | 32.3 | 32.3 | 31.4 | 29.9 | 30.8 | 30.8 | 28.7 |
| Some college | 28.0 | 28.2 | 29.0 | 28.0 | 28.1 | 29.7 | 29.7 | 28.8 | 27.8 | 29.4 | 29.3 | 28.4 |
| College graduate..... | 25.7 | 26.0 | 25.5 | 27.8 | 25.2 | 27.7 | 26.4 | 27.6 | 28.6 | 27.0 | 29.1 | 26.9 |
| Some postgraduate | 24.0 | 22.5 | 25.1 | 25.5 | 23.7 | 22.6 | 26.7 | 29.3 | 27.8 | 26.3 | 28.6 | 27.1 |
| Alcohol | | | | | | | | | | | | |
| All seniors | 72.0 | 70.7 | 69.7 | 69.4 | 67.2 | 65.9 | 65.3 | 66.4 | 63.9 | 60.0 | 57.1 | 54.0 |
| Male | 77.4 | 75.7 | 74.1 | 74.4 | 71.4 | 69.8 | 69.0 | 69.9 | 68.0 | 65.1 | 61.3 | 58.4 |
| Female | 66.8 | 65.7 | 65.4 | 64.3 | 62.8 | 62.1 | 61.9 | 63.1 | 59.9 | 54.9 | 52.3 | 49.0 |
| White..... | 75.8 | 75.0 | 74.2 | 73.5 | 72.1 | 70.2 | 70.2 | 71.8 | 69.5 | 65.3 | 62.2 | 57.7 |
| Black..... | 47.7 | 45.8 | 46.2 | 49.3 | 42.1 | 43.6 | 40.4 | 38.5 | 40.9 | 38.1 | 32.9 | 34.4 |
| Average parental education 1: | | | | | | | | | | | | |
| Less than high school | 65.9 | 62.1 | 61.3 | 61.2 | 58.1 | 58.7 | 56.1 | 56.3 | 54.5 | 47.8 | 47.2 | 49.9 |
| High school graduate | 72.0 | 70.7 | 69.4 | 69.2 | 67.4 | 65.9 | 65.3 | 67.0 | 64.6 | 59.7 | 57.2 | 53.3 |
| Some college | 73.3 | 71.5 | 72.7 | 70.4 | 69.6 | 66.9 | 66.7 | 67.2 | 64.3 | 62.9 | 57.7 | 54.3 |
| College graduate..... | 74.4 | 73.1 | 74.5 | 73.1 | 69.3 | 68.9 | 68.0 | 68.8 | 66.0 | 62.1 | 60.8 | 54.8 |
| Some postgraduate | 77.2 | 77.4 | 74.1 | 75.0 | 70.3 | 67.9 | 69.9 | 70.5 | 67.3 | 62.2 | 60.8 | 58.0 |
| Marijuana | | | | | | | | | | | | |
| All seniors | 33.7 | 31.6 | 28.5 | 27.0 | 25.2 | 25.7 | 23.4 | 21.0 | 18.0 | 16.7 | 14.0 | 13.8 |
| Male | 37.8 | 35.3 | 31.4 | 31.0 | 28.2 | 28.7 | 26.8 | 23.1 | 20.7 | 19.5 | 16.1 | 16.1 |
| Female | 29.1 | 27.3 | 24.9 | 22.2 | 21.1 | 22.4 | 20.0 | 18.6 | 15.2 | 13.8 | 11.5 | 11.2 |
| White..... | 34.2 | 32.4 | 29.1 | 26.6 | 25.3 | 26.4 | 24.6 | 22.3 | 19.9 | 18.6 | 15.6 | 15.0 |
| Black..... | 26.5 | 24.9 | 24.8 | 26.9 | 22.8 | 21.7 | 16.6 | 12.4 | 9.8 | 9.4 | 5.2 | 6.5 |
| Average parental education 1: | | | | | | | | | | | | |
| Less than high school | 29.9 | 29.7 | 24.9 | 26.2 | 23.8 | 23.4 | 21.0 | 19.9 | 15.6 | 13.9 | 11.4 | 11.7 |
| High school graduate | 34.6 | 31.5 | 28.4 | 27.3 | 25.4 | 25.9 | 24.1 | 20.9 | 16.8 | 16.3 | 14.3 | 12.9 |
| Some college | 33.6 | 31.4 | 29.3 | 26.1 | 25.8 | 26.5 | 24.1 | 21.1 | 17.7 | 17.9 | 13.5 | 13.8 |
| College graduate..... | 33.7 | 31.9 | 30.1 | 26.9 | 23.3 | 27.1 | 23.1 | 21.1 | 19.3 | 17.1 | 15.0 | 13.7 |
| Some postgraduate | 36.2 | 31.9 | 27.7 | 25.5 | 23.4 | 20.6 | 21.7 | 21.2 | 20.6 | 16.2 | 15.0 | 17.6 |
| Cocaine | | | | | | | | | | | | |
| All seniors | 5.2 | 5.8 | 5.0 | 4.9 | 5.8 | 6.7 | 6.2 | 4.3 | 3.4 | 2.8 | 1.9 | 1.4 |
| Male | 6.0 | 6.3 | 5.9 | 5.7 | 7.0 | 7.7 | 7.2 | 4.9 | 4.2 | 3.6 | 2.3 | 1.7 |
| Female | 4.3 | 5.0 | 3.8 | 4.1 | 4.4 | 5.6 | 5.1 | 3.7 | 2.6 | 2.0 | 1.3 | 0.9 |
| White..... | 5.4 | 6.1 | 4.9 | 4.9 | 6.0 | 7.0 | 6.4 | 4.4 | 3.7 | 2.9 | 1.8 | 1.3 |
| Black..... | 2.0 | 2.1 | 3.2 | 3.0 | 2.4 | 2.7 | 2.7 | 1.8 | 1.4 | 1.2 | 0.5 | 0.8 |
| Average parental education 1: | | | | | | | | | | | | |
| Less than high school | 3.8 | 3.9 | 3.6 | 4.6 | 4.5 | 6.5 | 5.8 | 3.4 | 3.2 | 3.5 | 2.0 | 1.8 |
| High school graduate | 4.5 | 4.9 | 4.6 | 4.2 | 5.9 | 6.7 | 6.1 | 4.1 | 3.3 | 2.7 | 1.8 | 1.3 |
| Some college | 5.8 | 6.0 | 5.2 | 4.7 | 5.6 | 6.7 | 6.7 | 4.9 | 3.0 | 2.6 | 2.0 | 1.4 |
| College graduate..... | 5.9 | 7.6 | 5.9 | 6.0 | 6.2 | 6.8 | 6.1 | 4.2 | 4.0 | 3.1 | 1.2 | 1.2 |
| Some postgraduate | 7.0 | 7.4 | 5.4 | 6.0 | 6.6 | 6.4 | 5.3 | 4.0 | 3.6 | 2.4 | 2.0 | 0.9 |

¹Average parental education is calculated by averaging the following respondent-reported parental educational categories: (1) completed grade school or less, (2) some high school, (3) completed high school, (4) some college, (5) completed college, and (6) graduate or professional school after college.

NOTES: The Nation's High School Seniors survey excludes high school dropouts (about 15 percent of the age group during the 1980's) and absentees (about 16–19 percent of high school students). High school dropouts and absentees have higher drug usage than those included in the survey.

SOURCE: National Institute on Drug Abuse: Monitoring the Future Study: Annual surveys.

Table 68. Cocaine-related emergency room episodes, according to age, sex, race, and Hispanic origin: Selected metropolitan areas, 1985–89 and United States 1989–91

[Data are based on a sample of emergency rooms]

| Age, sex, race, and Hispanic origin | Data from 21 metropolitan areas | | | | Data from national sample | | | | |
|--|---------------------------------|---------|---------|---------|---------------------------|---------|---------|--------|---------|
| | 1985–86 | 1986–87 | 1987–88 | 1988–89 | 1989–90 | 1990–91 | 1989 | 1990 | 1991 |
| All races, both sexes ¹ | Annual percent change | | | | Number of episodes | | | | |
| All ages ² | 81.3 | 72.7 | 32.7 | -2.1 | -27.0 | 27.8 | 110,013 | 80,355 | 102,727 |
| 12–17 years | 94.9 | 34.4 | 33.8 | -10.4 | -26.9 | 16.6 | 2,544 | 1,859 | 2,167 |
| 18–24 years | 81.1 | 67.1 | 32.5 | -10.8 | -39.7 | 14.0 | 25,996 | 15,665 | 17,857 |
| 25–34 years | 82.8 | 73.0 | 29.5 | -1.5 | -28.6 | 29.0 | 55,422 | 39,589 | 51,077 |
| 35–44 years | 74.8 | 87.1 | 40.8 | 6.2 | -10.9 | 35.4 | 21,529 | 19,186 | 25,974 |
| 45–64 years | 71.8 | 73.2 | 43.6 | 9.4 | -5.4 | 32.6 | 3,965 | 3,749 | 4,973 |
| White, non-Hispanic male | | | | | | | | | |
| All ages ² | 74.2 | 55.0 | 28.5 | -9.2 | -37.4 | 26.9 | 24,789 | 15,512 | 19,678 |
| 12–17 years | 46.8 | 37.2 | 20.6 | 4.3 | -40.8 | -5.6 | 880 | 521 | 492 |
| 18–24 years | 65.0 | 48.0 | 25.6 | -13.7 | -48.8 | 48.2 | 6,188 | 3,143 | 4,657 |
| 25–34 years | 74.3 | 60.9 | 24.0 | -12.7 | -41.9 | 30.1 | 12,714 | 7,392 | 9,614 |
| 35–44 years | 102.1 | 52.1 | 49.0 | 2.3 | -14.1 | 8.5 | 4,369 | 3,755 | 4,073 |
| 45–64 years | 76.4 | 47.4 | 48.3 | 13.7 | 2.7 | 20.8 | 594 | 610 | 737 |
| Black, non-Hispanic male | | | | | | | | | |
| All ages ² | 82.4 | 85.3 | 40.5 | -0.1 | -16.1 | 33.9 | 33,070 | 27,745 | 37,162 |
| 12–17 years | 127.0 | 67.9 | 41.1 | -4.0 | -35.3 | 1.7 | 363 | 235 | 239 |
| 18–24 years | 104.9 | 85.3 | 41.2 | -7.6 | -37.5 | 17.0 | 6,098 | 3,811 | 4,460 |
| 25–34 years | 86.0 | 80.2 | 37.6 | -0.1 | -16.9 | 32.8 | 16,193 | 13,453 | 17,861 |
| 35–44 years | 56.6 | 107.0 | 45.0 | 4.5 | -0.2 | 42.0 | 8,271 | 8,253 | 11,723 |
| 45–64 years | 69.3 | 66.4 | 51.5 | 8.0 | -3.6 | 32.4 | 1,989 | 1,917 | 2,539 |
| Hispanic male | | | | | | | | | |
| All ages ² | 76.8 | 41.1 | 27.8 | -2.2 | -31.8 | 38.4 | 7,067 | 4,821 | 6,673 |
| 12–17 years | * | 24.0 | 41.9 | -20.5 | -52.2 | 43.0 | 297 | 142 | 203 |
| 18–24 years | 75.8 | 32.0 | 44.9 | -11.2 | -31.7 | 2.7 | 2,088 | 1,426 | 1,465 |
| 25–34 years | 78.9 | 40.3 | 18.6 | -1.8 | -30.0 | 50.0 | 3,009 | 2,106 | 3,160 |
| 35–44 years | 52.5 | 67.6 | 17.4 | 10.8 | -32.8 | 55.8 | 1,367 | 918 | 1,430 |
| 45–64 years | * | 35.7 | 59.2 | 15.7 | -30.9 | 94.5 | 291 | 201 | 391 |
| White, non-Hispanic female | | | | | | | | | |
| All ages ² | 62.7 | 52.4 | 27.1 | -5.0 | -37.0 | 16.3 | 13,226 | 8,331 | 9,690 |
| 12–17 years | 98.5 | -9.9 | 36.4 | -16.1 | -4.0 | -2.5 | 505 | 485 | 473 |
| 18–24 years | 48.0 | 49.2 | 29.6 | -17.7 | -44.2 | 9.7 | 3,908 | 2,179 | 2,390 |
| 25–34 years | 67.6 | 58.6 | 21.2 | -0.8 | -38.9 | 19.2 | 6,740 | 4,120 | 4,912 |
| 35–44 years | 84.5 | 72.1 | 45.1 | 11.9 | -21.9 | 20.4 | 1,782 | 1,391 | 1,675 |
| 45–64 years | * | * | 34.3 | 55.3 | * | * | 220 | * | 162 |
| Black, non-Hispanic female | | | | | | | | | |
| All ages ² | 103.9 | 85.0 | 29.5 | 0.8 | -16.0 | 30.8 | 17,657 | 14,833 | 19,406 |
| 12–17 years | * | 112.2 | 17.3 | -18.9 | * | * | 248 | * | * |
| 18–24 years | 125.9 | 88.4 | 26.1 | -9.7 | -24.4 | 1.6 | 3,944 | 2,981 | 3,029 |
| 25–34 years | 97.0 | 80.6 | 29.2 | 4.4 | -15.0 | 27.4 | 9,714 | 8,257 | 10,520 |
| 35–44 years | 105.8 | 84.5 | 38.1 | 7.6 | -8.4 | 67.3 | 3,181 | 2,914 | 4,876 |
| 45–64 years | 45.7 | 139.2 | 33.6 | 2.5 | -4.3 | 58.2 | 465 | 445 | 704 |
| Hispanic female | | | | | | | | | |
| All ages ² | 79.6 | 39.1 | 26.7 | -6.1 | -32.7 | 39.0 | 2,556 | 1,719 | 2,389 |
| 12–17 years | * | * | * | -30.8 | -31.2 | 190.6 | 93 | 64 | 186 |
| 18–24 years | 75.5 | 34.2 | 30.5 | -16.3 | -29.0 | -13.5 | 730 | 518 | 448 |
| 25–34 years | 82.3 | 53.4 | 7.1 | -5.5 | -30.1 | 58.5 | 1,115 | 779 | 1,235 |
| 35–44 years | 48.8 | 32.8 | 76.5 | 16.7 | -42.7 | 42.3 | 557 | 319 | 454 |
| 45–64 years | * | * | * | * | -27.5 | 75.7 | 51 | 37 | 65 |

¹Includes unknown race/ethnicity and/or sex.

²Includes ages under 12 years, over 64 years, and unknown.

*Annual percent change based on fewer than 30 episodes in any year 1985–88 from the 21 metropolitan areas is considered unreliable and is not shown. National estimates with relative standard error 50 percent or greater and annual percent change based on these estimates are considered unreliable and are not shown.

NOTES: Prior to 1989, data from the Drug Abuse Warning Network (DAWN) were derived from a nonrandom sample of emergency rooms primarily located in 21 metropolitan areas. Starting in 1989, estimates are based on weighted data from a nationally representative sample of emergency rooms.

SOURCE: Substance Abuse and Mental Health Services Administration, Drug Abuse Warning Network.

Table 69. Alcohol consumption by persons 18 years of age and over, according to sex, race, Hispanic origin, and age: United States, 1985 and 1990

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Alcohol consumption, race, Hispanic origin, and age | Both sexes | | Male | | Female | |
|---|------------|-------|-------|-------|--------|-------|
| | 1985 | 1990 | 1985 | 1990 | 1985 | 1990 |
| Drinking status | | | | | | |
| All | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Abstainer | 26.9 | 29.7 | 14.4 | 16.6 | 38.0 | 41.5 |
| Former drinker | 7.5 | 9.6 | 9.2 | 11.6 | 6.1 | 7.8 |
| Current drinker | 65.6 | 60.7 | 76.4 | 71.8 | 55.9 | 50.7 |
| Percent current drinkers among all persons | | | | | | |
| All races: | | | | | | |
| 18-44 years | 72.8 | 67.5 | 82.4 | 77.1 | 63.8 | 58.3 |
| 18-24 years | 71.8 | 63.7 | 79.5 | 71.7 | 64.5 | 56.1 |
| 25-44 years | 73.2 | 68.8 | 83.5 | 78.9 | 63.5 | 59.0 |
| 45 years and over | 55.5 | 51.3 | 67.4 | 63.8 | 45.6 | 40.8 |
| 45-64 years | 62.2 | 57.6 | 72.2 | 68.4 | 53.0 | 47.6 |
| 65 years and over | 44.3 | 41.4 | 58.2 | 55.6 | 34.7 | 31.3 |
| White, non-Hispanic: | | | | | | |
| 18-44 years | 76.9 | 72.7 | 85.0 | 80.4 | 68.9 | 65.1 |
| 18-24 years | 77.9 | 71.5 | 84.9 | 77.5 | 71.0 | 65.7 |
| 25-44 years | 76.5 | 73.1 | 85.0 | 81.2 | 68.2 | 65.0 |
| 45 years and over | 57.6 | 53.8 | 69.0 | 65.5 | 48.2 | 44.0 |
| 45-64 years | 65.2 | 61.0 | 74.1 | 70.6 | 56.9 | 52.2 |
| 65 years and over | 45.8 | 43.3 | 59.6 | 57.1 | 36.2 | 33.3 |
| Black, non-Hispanic: | | | | | | |
| 18-44 years | 59.0 | 51.5 | 72.2 | 68.1 | 48.2 | 37.9 |
| 45 years and over | 41.5 | 36.0 | 57.1 | 51.3 | 29.9 | 24.5 |
| Hispanic: | | | | | | |
| 18-44 years | 58.7 | 55.7 | 73.2 | 71.3 | 45.6 | 42.0 |
| 45 years and over | 48.5 | 43.4 | 64.3 | 63.3 | 35.4 | 27.8 |
| Level of alcohol consumption in past 2 weeks for current drinkers | | | | | | |
| All drinking levels | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| None | 21.6 | 24.1 | 18.0 | 20.3 | 26.1 | 29.1 |
| Light. | 37.1 | 39.4 | 30.9 | 33.9 | 44.7 | 46.4 |
| Moderate | 29.5 | 27.4 | 34.0 | 32.3 | 24.0 | 21.1 |
| Heavier. | 11.8 | 9.1 | 17.2 | 13.6 | 5.3 | 3.4 |
| Percent heavier drinkers among current drinkers | | | | | | |
| All races: | | | | | | |
| 18-44 years | 11.0 | 8.5 | 16.6 | 13.0 | 4.2 | 2.8 |
| 18-24 years | 12.2 | 8.8 | 18.3 | 13.8 | 5.0 | 2.7 |
| 25-44 years | 10.6 | 8.4 | 16.0 | 12.7 | 3.8 | 2.9 |
| 45 years and over | 13.3 | 10.3 | 18.2 | 14.7 | 7.4 | 4.6 |
| 45-64 years | 13.2 | 9.9 | 18.1 | 14.4 | 7.2 | 4.1 |
| 65 years and over | 13.6 | 11.0 | 18.4 | 15.3 | 7.9 | 5.5 |
| White, non-Hispanic: | | | | | | |
| 18-44 years | 11.2 | 8.5 | 17.1 | 13.2 | 4.0 | 2.8 |
| 18-24 years | 13.3 | 9.9 | 20.4 | 16.0 | 5.2 | 3.0 |
| 25-44 years | 10.4 | 8.1 | 16.0 | 12.4 | 3.6 | 2.7 |
| 45 years and over | 13.4 | 10.4 | 18.2 | 15.0 | 7.6 | 4.7 |
| 45-64 years | 13.2 | 10.0 | 18.0 | 14.6 | 7.3 | 4.2 |
| 65 years and over | 13.9 | 11.3 | 18.7 | 15.8 | 8.3 | 5.7 |
| Black, non-Hispanic: | | | | | | |
| 18-44 years | 9.6 | 10.3 | 13.4 | 14.7 | 5.1 | 3.9 |
| 45 years and over | 10.3 | 7.7 | 16.2 | 10.1 | * | * |
| Hispanic: | | | | | | |
| 18-44 years | 10.6 | 7.9 | 15.2 | 11.3 | * | * |
| 45 years and over | 15.7 | 12.1 | * | 17.2 | * | * |

*Estimates based on fewer than 30 subjects are not shown.

NOTES: Abstainers consumed less than 12 drinks in any single year. Former drinkers consumed 12 or more drinks in any single year, but no drinks in the past year. Current drinkers consumed 12 or more drinks in a single year and at least 1 drink in the past year. For current drinkers, drinking levels are classified according to the average daily consumption of absolute alcohol (ethanol), in ounces, in the previous 2-week period, assuming 0.5 ounce ethanol per drink, as follows: none; light, .01-.21; moderate, .22-.99; and heavier, 1.00 or more. This corresponds to up to 3, 4-13, and 14 or more drinks per week for light, moderate, and heavier drinkers. Because of differences in the methods used to collect alcohol consumption, data from this table should not be compared with data in previous editions of Health, United States.

SOURCE: Data computed by the Alcohol Epidemiologic Data System of the National Institute on Alcohol Abuse and Alcoholism from data in the National Health Interview Survey compiled by the Division of Health Interview Statistics, National Center for Health Statistics, Centers for Disease Control and Prevention.

Table 70. Elevated blood pressure among persons 20–74 years of age, according to race, sex, and age: United States, 1960–62, 1971–74, and 1976–80

[Data are based on physical examinations of a sample of the civilian noninstitutionalized population]

| Sex and age | All races | | | White | | | Black | | |
|---|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1960–62 | 1971–74 | 1976–80 | 1960–62 | 1971–74 | 1976–80 | 1960–62 | 1971–74 | 1976–80 |
| Percent of population with systolic pressure at least 140 mmHg or diastolic pressure at least 90 mmHg | | | | | | | | | |
| Both sexes ¹ | | | | | | | | | |
| 20–74 years, age adjusted..... | 37.4 | 38.4 | 38.0 | 36.2 | 37.3 | 37.0 | 48.8 | 49.6 | 46.6 |
| 20–74 years, crude..... | 38.1 | 38.1 | 37.2 | 37.1 | 37.3 | 36.5 | 48.7 | 47.3 | 43.2 |
| 20–24 years..... | 12.9 | 13.5 | 16.1 | 13.1 | 13.7 | 16.0 | 13.1 | 13.7 | 16.9 |
| 25–34 years..... | 16.2 | 20.0 | 21.3 | 15.3 | 19.2 | 21.2 | 23.4 | 28.2 | 22.8 |
| 35–44 years..... | 30.0 | 32.3 | 33.1 | 28.3 | 29.7 | 31.0 | 44.0 | 54.5 | 47.6 |
| 45–54 years..... | 44.4 | 46.9 | 47.0 | 42.4 | 45.8 | 45.8 | 60.6 | 57.4 | 58.2 |
| 55–64 years..... | 62.3 | 59.4 | 56.7 | 60.9 | 58.4 | 55.2 | 78.9 | 71.8 | 70.5 |
| 65–74 years..... | 73.8 | 70.3 | 63.1 | 73.1 | 69.3 | 61.9 | 85.2 | 80.0 | 71.9 |
| Male | | | | | | | | | |
| 20–74 years, age adjusted..... | 40.8 | 42.7 | 43.6 | 40.0 | 42.1 | 43.1 | 48.9 | 51.0 | 48.5 |
| 20–74 years, crude..... | 41.0 | 42.0 | 42.5 | 40.4 | 41.6 | 42.3 | 49.6 | 48.9 | 45.7 |
| 20–24 years..... | 21.7 | 20.2 | 24.7 | 22.1 | 20.7 | 25.6 | *18.4 | 18.6 | 22.2 |
| 25–34 years..... | 23.3 | 27.5 | 31.1 | 22.3 | 27.2 | 31.3 | 31.9 | 33.6 | 31.7 |
| 35–44 years..... | 37.4 | 38.1 | 39.5 | 37.0 | 36.0 | 37.7 | 44.2 | 60.5 | 52.8 |
| 45–54 years..... | 47.2 | 52.8 | 51.8 | 46.0 | 53.0 | 51.8 | 56.3 | 53.3 | 49.8 |
| 55–64 years..... | 59.3 | 59.3 | 58.7 | 58.2 | 58.9 | 57.6 | 75.1 | 67.5 | 71.8 |
| 65–74 years..... | 65.9 | 65.4 | 62.0 | 65.0 | 64.0 | 60.6 | *76.8 | 79.3 | 69.2 |
| Female ¹ | | | | | | | | | |
| 20–74 years, age adjusted..... | 34.0 | 34.3 | 32.6 | 32.3 | 32.6 | 31.0 | 49.0 | 48.5 | 45.2 |
| 20–74 years, crude..... | 35.3 | 34.6 | 32.3 | 34.0 | 33.3 | 31.0 | 47.9 | 46.1 | 41.2 |
| 20–24 years..... | 4.2 | 7.1 | 7.8 | 3.8 | 6.9 | 6.5 | 8.7 | 9.3 | 12.2 |
| 25–34 years..... | 9.2 | 12.7 | 11.7 | 8.2 | 11.2 | 11.0 | 17.3 | 24.0 | 15.6 |
| 35–44 years..... | 22.9 | 26.9 | 27.1 | 19.9 | 23.8 | 24.6 | 43.8 | 49.9 | 43.7 |
| 45–54 years..... | 41.8 | 41.5 | 42.4 | 39.0 | 39.1 | 40.1 | 64.8 | 61.0 | 65.6 |
| 55–64 years..... | 65.0 | 59.5 | 54.9 | 63.3 | 57.9 | 53.0 | 82.8 | 75.3 | 69.4 |
| 65–74 years..... | 80.3 | 74.1 | 63.9 | 79.8 | 73.4 | 62.9 | *92.1 | 80.6 | 74.0 |
| Both sexes ¹ | | | | | | | | | |
| 20–74 years, age adjusted..... | 18.8 | 19.3 | 18.1 | 17.2 | 18.0 | 17.4 | 32.9 | 32.4 | 24.6 |
| 20–74 years, crude..... | 19.2 | 19.2 | 17.6 | 17.8 | 18.0 | 17.0 | 32.6 | 30.5 | 22.3 |
| 20–24 years..... | 4.3 | 3.7 | 4.9 | 4.3 | 3.7 | 5.0 | 5.1 | 4.5 | 4.3 |
| 25–34 years..... | 5.6 | 6.8 | 8.0 | 4.3 | 6.1 | 7.8 | 14.8 | 13.3 | 9.3 |
| 35–44 years..... | 13.4 | 15.5 | 13.9 | 11.5 | 13.5 | 12.4 | 29.0 | 31.9 | 24.7 |
| 45–54 years..... | 21.4 | 24.3 | 25.1 | 19.1 | 22.2 | 24.1 | 39.5 | 43.7 | 36.1 |
| 55–64 years..... | 31.8 | 33.2 | 28.1 | 30.1 | 31.6 | 26.9 | 50.4 | 52.1 | 39.3 |
| 65–74 years..... | 48.7 | 40.9 | 34.5 | 46.9 | 39.5 | 33.9 | 71.9 | 55.7 | 36.7 |
| Male | | | | | | | | | |
| 20–74 years, age adjusted..... | 18.8 | 20.7 | 20.9 | 17.4 | 19.6 | 20.4 | 32.9 | 31.8 | 26.1 |
| 20–74 years, crude..... | 19.0 | 20.2 | 20.1 | 17.6 | 19.3 | 19.8 | 32.9 | 30.1 | 23.9 |
| 20–24 years..... | 6.7 | 5.7 | 7.4 | 6.5 | 5.8 | 8.0 | *9.7 | 5.6 | 4.3 |
| 25–34 years..... | 7.8 | 8.9 | 12.2 | 6.1 | 8.3 | 12.2 | 21.8 | 16.1 | 13.4 |
| 35–44 years..... | 16.2 | 19.1 | 17.0 | 14.9 | 17.2 | 15.2 | 28.1 | 36.8 | 33.9 |
| 45–54 years..... | 21.4 | 26.8 | 28.2 | 19.6 | 25.8 | 28.4 | 34.6 | 37.0 | 27.8 |
| 55–64 years..... | 29.3 | 32.5 | 31.2 | 27.4 | 31.2 | 29.8 | 50.3 | 49.5 | 45.5 |
| 65–74 years..... | 40.5 | 36.4 | 33.3 | 38.6 | 35.1 | 32.6 | *63.3 | 50.3 | 32.3 |
| Female ¹ | | | | | | | | | |
| 20–74 years, age adjusted..... | 18.6 | 18.0 | 15.4 | 16.9 | 16.3 | 14.4 | 33.2 | 33.0 | 23.5 |
| 20–74 years, crude..... | 19.3 | 18.3 | 15.2 | 18.0 | 16.8 | 14.5 | 32.3 | 30.9 | 21.0 |
| 20–24 years..... | 1.9 | 1.9 | 2.5 | 2.1 | 1.7 | 2.0 | 1.3 | 3.5 | 4.4 |
| 25–34 years..... | 3.4 | 4.8 | 3.8 | 2.5 | 4.0 | 3.4 | 9.7 | 11.2 | 6.0 |
| 35–44 years..... | 10.8 | 12.2 | 11.0 | 8.3 | 10.0 | 9.7 | 29.8 | 28.2 | 17.5 |
| 45–54 years..... | 21.5 | 21.9 | 22.3 | 18.7 | 18.8 | 20.0 | 44.3 | 49.4 | 43.4 |
| 55–64 years..... | 34.1 | 33.9 | 25.2 | 32.5 | 32.0 | 24.3 | 50.5 | 54.2 | 34.2 |
| 65–74 years..... | 55.4 | 44.4 | 35.4 | 53.8 | 42.9 | 34.9 | *79.0 | 59.8 | 40.0 |

¹Excludes pregnant women.

*Percents based on fewer than 45 persons are considered unreliable. Percents based on fewer than 25 persons are considered highly unreliable and are not shown.

NOTE: Percents are based on a single measurement of blood pressure to provide comparable data across the 3 time periods.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Examination Statistics: Unpublished data.

Table 71. Hypertension among persons 20–74 years of age, according to race, sex, and age: United States, 1960–62, 1971–74, and 1976–80

[Data are based on physical examinations of a sample of the civilian noninstitutionalized population]

| Sex and age | All races | | | White | | | Black | | |
|--------------------------------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1960–62 | 1971–74 | 1976–80 | 1960–62 | 1971–74 | 1976–80 | 1960–62 | 1971–74 | 1976–80 |
| Both sexes ¹ | Percent of population | | | | | | | | |
| 20–74 years, age adjusted..... | 38.5 | 40.0 | 40.6 | 37.1 | 38.7 | 39.4 | 51.4 | 53.5 | 50.5 |
| 20–74 years, crude..... | 39.0 | 39.7 | 39.7 | 37.9 | 38.7 | 38.9 | 51.3 | 51.0 | 46.7 |
| 20–24 years..... | 13.4 | 13.6 | 16.4 | 13.3 | 13.8 | 16.2 | 15.6 | 13.7 | 18.2 |
| 25–34 years..... | 17.3 | 20.6 | 22.0 | 16.1 | 19.5 | 21.9 | 26.5 | 31.3 | 24.2 |
| 35–44 years..... | 30.7 | 33.4 | 34.5 | 28.6 | 30.6 | 32.3 | 47.0 | 58.0 | 49.6 |
| 45–54 years..... | 45.5 | 49.1 | 50.2 | 43.4 | 47.5 | 48.9 | 62.2 | 63.5 | 64.3 |
| 55–64 years..... | 63.5 | 62.5 | 61.4 | 61.9 | 61.2 | 59.8 | 82.0 | 77.7 | 76.0 |
| 65–74 years..... | 75.7 | 73.5 | 69.7 | 74.9 | 72.5 | 68.5 | 88.1 | 83.8 | 80.7 |
| Male | | | | | | | | | |
| 20–74 years, age adjusted..... | 41.4 | 44.0 | 45.3 | 40.6 | 43.3 | 44.8 | 49.7 | 54.2 | 50.5 |
| 20–74 years, crude..... | 41.7 | 43.3 | 44.0 | 41.0 | 42.8 | 43.8 | 50.5 | 52.1 | 47.4 |
| 20–24 years..... | 21.6 | 20.4 | 24.7 | 22.0 | 20.9 | 25.6 | *18.4 | 18.4 | 22.2 |
| 25–34 years..... | 23.5 | 27.6 | 31.4 | 22.5 | 27.3 | 31.7 | 32.4 | 33.6 | 32.1 |
| 35–44 years..... | 37.7 | 39.1 | 40.5 | 37.1 | 36.6 | 38.6 | 46.6 | 64.7 | 54.3 |
| 45–54 years..... | 47.6 | 55.0 | 53.6 | 46.5 | 54.6 | 53.5 | 56.3 | 61.1 | 53.3 |
| 55–64 years..... | 60.3 | 62.5 | 61.8 | 59.1 | 62.1 | 60.8 | 76.2 | 72.0 | 73.8 |
| 65–74 years..... | 68.8 | 67.2 | 67.1 | 68.1 | 65.8 | 65.8 | *76.8 | 81.5 | 75.1 |
| Female ¹ | | | | | | | | | |
| 20–74 years, age adjusted..... | 35.5 | 36.1 | 36.0 | 33.4 | 34.1 | 34.2 | 53.4 | 52.9 | 50.6 |
| 20–74 years, crude..... | 36.6 | 36.5 | 35.6 | 34.9 | 34.9 | 34.2 | 52.0 | 50.2 | 46.1 |
| 20–24 years..... | 5.3 | 7.2 | 8.3 | 4.4 | 6.9 | 6.8 | 13.3 | 9.5 | 14.6 |
| 25–34 years..... | 11.2 | 13.7 | 12.8 | 9.7 | 11.7 | 12.0 | 22.2 | 29.6 | 17.7 |
| 35–44 years..... | 24.0 | 28.2 | 28.8 | 20.6 | 24.9 | 26.2 | 47.3 | 52.8 | 46.0 |
| 45–54 years..... | 43.4 | 43.6 | 47.1 | 40.6 | 40.9 | 44.5 | 68.1 | 65.6 | 73.9 |
| 55–64 years..... | 66.4 | 62.5 | 61.1 | 64.4 | 60.5 | 59.0 | 87.8 | 82.5 | 77.9 |
| 65–74 years..... | 81.5 | 78.3 | 71.8 | 80.7 | 77.5 | 70.6 | *97.5 | 85.6 | 85.0 |

¹Excludes pregnant women.

*Percents based on fewer than 45 persons are considered unreliable. Percents based on fewer than 25 persons are considered highly unreliable and are not shown.

NOTE: A person with hypertension is defined by either having elevated blood pressure (systolic pressure of at least 140 mmHg or diastolic pressure of at least 90 mmHg) or taking antihypertensive medication. Percents are based on a single measurement of blood pressure to provide comparable data across the 3 time periods. In 1976–80, 31.3 percent of persons 20–74 years of age had hypertension, based on the average of 3 blood pressure measurements, in contrast to 39.7 percent when a single measurement is used.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Examination Statistics: Unpublished data.

Table 72. Persons 20 years of age and over with high serum cholesterol levels and mean serum cholesterol levels, according to sex, age, race, and Hispanic origin: United States, 1960–62, 1971–74, 1976–80, and 1988–91

[Data are based on physical examinations of a sample of the civilian noninstitutionalized population]

| Sex, age, race, and Hispanic origin ¹ | Percent of population with high serum cholesterol | | | | Mean serum cholesterol level, mg/dL | | | |
|---|--|---------|----------------------|---------|--|---------|----------------------|---------|
| | 1960–62 | 1971–74 | 1976–80 ² | 1988–91 | 1960–62 | 1971–74 | 1976–80 ² | 1988–91 |
| 20–74 years, age adjusted³ | | | | | | | | |
| Both sexes | 31.8 | 27.2 | 26.3 | 19.7 | 220 | 214 | 213 | 205 |
| Male | 28.7 | 25.8 | 24.6 | 19.0 | 217 | 213 | 211 | 205 |
| Female | 34.5 | 28.2 | 27.6 | 20.2 | 222 | 215 | 214 | 205 |
| White male | 29.4 | 25.9 | 24.6 | 19.3 | 218 | 213 | 211 | 205 |
| White female | 35.1 | 28.1 | 28.0 | 20.3 | 223 | 215 | 214 | 205 |
| Black male | 24.5 | 25.1 | 24.1 | 16.5 | 210 | 212 | 208 | 200 |
| Black female | 30.7 | 29.2 | 24.9 | 20.7 | 216 | 217 | 213 | 205 |
| White, non-Hispanic male | --- | --- | 24.7 | 19.1 | --- | --- | 211 | 205 |
| White, non-Hispanic female | --- | --- | 28.3 | 20.0 | --- | --- | 214 | 205 |
| Black, non-Hispanic male | --- | --- | 24.0 | 16.6 | --- | --- | 208 | 201 |
| Black, non-Hispanic female | --- | --- | 24.9 | 20.7 | --- | --- | 214 | 205 |
| Mexican-American male | --- | --- | 18.8 | 20.3 | --- | --- | 207 | 207 |
| Mexican-American female | --- | --- | 20.0 | 19.4 | --- | --- | 207 | 205 |
| 20–74 years, crude | | | | | | | | |
| Both sexes | 33.6 | 28.2 | 26.8 | 19.7 | 222 | 216 | 213 | 205 |
| Male | 30.7 | 26.8 | 24.9 | 19.0 | 220 | 214 | 211 | 205 |
| Female | 36.3 | 29.6 | 28.5 | 20.3 | 225 | 217 | 215 | 205 |
| White male | 31.4 | 26.9 | 25.0 | 19.6 | 221 | 215 | 211 | 206 |
| White female | 37.5 | 29.8 | 29.2 | 20.8 | 227 | 217 | 216 | 206 |
| Black male | 26.7 | 25.1 | 23.9 | 15.3 | 214 | 212 | 208 | 198 |
| Black female | 29.9 | 28.8 | 23.7 | 18.1 | 216 | 216 | 212 | 201 |
| White, non-Hispanic male | --- | --- | 25.1 | 19.6 | --- | --- | 211 | 206 |
| White, non-Hispanic female | --- | --- | 29.8 | 20.9 | --- | --- | 216 | 206 |
| Black, non-Hispanic male | --- | --- | 23.7 | 15.4 | --- | --- | 208 | 199 |
| Black, non-Hispanic female | --- | --- | 23.7 | 18.2 | --- | --- | 212 | 202 |
| Mexican-American male | --- | --- | 16.6 | 17.6 | --- | --- | 203 | 202 |
| Mexican-American female | --- | --- | 16.5 | 15.6 | --- | --- | 202 | 200 |
| Male | | | | | | | | |
| 20–34 years | 15.1 | 12.4 | 11.9 | 9.3 | 198 | 194 | 192 | 189 |
| 35–44 years | 33.9 | 31.8 | 27.9 | 19.3 | 227 | 221 | 217 | 207 |
| 45–54 years | 39.2 | 37.5 | 36.9 | 26.1 | 231 | 229 | 227 | 218 |
| 55–64 years | 41.6 | 36.2 | 36.8 | 31.4 | 233 | 229 | 229 | 221 |
| 65–74 years | 38.0 | 34.7 | 31.7 | 27.7 | 230 | 226 | 221 | 218 |
| 75 years and over | --- | --- | --- | 19.9 | --- | --- | --- | 205 |
| Female | | | | | | | | |
| 20–34 years | 12.4 | 10.9 | 9.8 | 8.3 | 194 | 191 | 189 | 185 |
| 35–44 years | 23.1 | 19.3 | 20.7 | 11.7 | 214 | 207 | 207 | 195 |
| 45–54 years | 46.9 | 38.7 | 40.5 | 25.2 | 237 | 232 | 232 | 217 |
| 55–64 years | 70.1 | 53.1 | 52.9 | 40.4 | 262 | 245 | 249 | 237 |
| 65–74 years | 68.5 | 57.7 | 51.6 | 43.2 | 266 | 250 | 246 | 234 |
| 75 years and over | --- | --- | --- | 39.2 | --- | --- | --- | 230 |

¹The race groups, white and black, include persons of both Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race.

²Data for Mexican-Americans are for 1982–84. See Appendix I.

³Age-adjusted by the direct method to the 1980 U.S. resident population using the following 5 age groups: 20–34 years, 35–44 years, 45–54 years, 55–64 years, and 65–74 years. Other Health, U.S. tables based on data from the NHES and NHANES are age-adjusted using a 1970 standard population as described in Appendix II.

NOTES: High serum cholesterol is defined as greater than or equal to 240 mg/dL (6.20 mmol/L). Risk levels have been defined by the National Cholesterol Education Program Expert Panel on Detection, Evaluation and Treatment of High Blood Cholesterol in Adults, Nov. 1987. (Archives of Internal Medicine: January 1988, 148: 36–69.)

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Examination Statistics.

Table 73. Overweight persons 20–74 years of age, according to race, sex, and age: United States, 1960–62, 1971–74, and 1976–80

[Data are based on physical examinations of a sample of the civilian noninstitutionalized population]

| Sex and age | All races | | | White | | | Black | | |
|--------------------------------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1960–62 | 1971–74 | 1976–80 | 1960–62 | 1971–74 | 1976–80 | 1960–62 | 1971–74 | 1976–80 |
| Both sexes | Percent of population | | | | | | | | |
| 20–74 years, age adjusted..... | 25.0 | 25.7 | 26.2 | 24.1 | 24.8 | 25.1 | 32.6 | 35.7 | 37.7 |
| 20–74 years, crude..... | 25.5 | 25.5 | 25.7 | 24.6 | 24.7 | 24.8 | 33.4 | 34.9 | 35.7 |
| 20–24 years..... | 11.6 | 11.3 | 11.7 | 11.5 | 10.9 | 11.2 | 11.6 | 15.8 | 15.3 |
| 25–34 years..... | 18.7 | 20.5 | 20.2 | 17.5 | 19.7 | 19.4 | 31.1 | 29.1 | 26.3 |
| 35–44 years..... | 23.5 | 28.4 | 27.9 | 21.4 | 26.6 | 26.4 | 38.0 | 45.3 | 40.8 |
| 45–54 years..... | 29.4 | 30.0 | 31.7 | 28.6 | 29.1 | 30.2 | 34.3 | 39.4 | 52.1 |
| 55–64 years..... | 35.4 | 32.0 | 32.8 | 34.6 | 31.0 | 31.9 | 44.0 | 43.9 | 44.2 |
| 65–74 years..... | 33.5 | 31.5 | 32.7 | 33.8 | 31.0 | 31.9 | 31.5 | 37.3 | 46.0 |
| Male | | | | | | | | | |
| 20–74 years, age adjusted..... | 23.2 | 24.1 | 24.8 | 23.5 | 24.3 | 24.9 | 21.7 | 25.0 | 27.5 |
| 20–74 years, crude..... | 23.4 | 24.0 | 24.2 | 23.7 | 24.1 | 24.4 | 22.5 | 24.5 | 25.7 |
| 20–24 years..... | 15.5 | 12.1 | 12.1 | 16.1 | 12.8 | 12.7 | *8.5 | 8.2 | 5.5 |
| 25–34 years..... | 21.6 | 23.6 | 20.4 | 21.2 | 23.6 | 20.9 | 33.0 | 26.1 | 17.5 |
| 35–44 years..... | 22.8 | 29.4 | 28.9 | 22.0 | 28.9 | 28.2 | 28.6 | 39.3 | 40.9 |
| 45–54 years..... | 28.1 | 27.6 | 31.0 | 29.0 | 28.2 | 30.5 | 20.6 | 22.4 | 41.4 |
| 55–64 years..... | 26.9 | 24.8 | 28.1 | 28.5 | 24.9 | 28.6 | 17.1 | 25.6 | 26.0 |
| 65–74 years..... | 21.8 | 23.0 | 25.2 | 22.6 | 23.1 | 25.8 | *11.7 | 21.6 | 26.4 |
| Female | | | | | | | | | |
| 20–74 years, age adjusted..... | 26.5 | 26.9 | 27.4 | 24.4 | 25.0 | 25.2 | 42.9 | 44.5 | 46.1 |
| 20–74 years, crude..... | 27.4 | 27.0 | 27.1 | 25.4 | 25.2 | 25.1 | 43.0 | 43.2 | 43.8 |
| 20–24 years..... | 7.9 | 10.5 | 11.4 | 6.7 | 9.1 | 9.6 | 14.2 | 22.5 | 23.7 |
| 25–34 years..... | 15.9 | 17.6 | 20.0 | 13.9 | 15.9 | 17.9 | 29.6 | 31.5 | 33.5 |
| 35–44 years..... | 24.1 | 27.3 | 27.0 | 20.9 | 24.5 | 24.8 | 46.1 | 49.9 | 40.8 |
| 45–54 years..... | 30.7 | 32.3 | 32.5 | 28.2 | 29.9 | 29.9 | 47.8 | 53.5 | 61.2 |
| 55–64 years..... | 43.2 | 38.5 | 37.0 | 40.1 | 36.6 | 34.8 | 71.4 | 58.7 | 59.4 |
| 65–74 years..... | 42.9 | 38.0 | 38.5 | 42.8 | 37.0 | 36.5 | *47.8 | 49.2 | 60.8 |

*Based on fewer than 45 persons.

NOTES: Overweight is defined for men as body mass index greater than or equal to 27.8 kilograms/meter², and for women as body mass index greater than or equal to 27.3 kilograms/meter². These cut points were used because they represent the sex-specific 85th percentiles for persons 20–29 years of age in the 1976–80 National Health and Nutrition Examination Survey. Excludes pregnant women. Height was measured without shoes; two pounds are deducted from data for 1960–62 to allow for weight of clothing.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Examination Statistics: Unpublished data.

Table 74. Air pollution, according to source and type of pollutant: United States, selected years 1970–91

[Data are calculated emissions estimates]

| Type of pollutant and year | All sources | Transportation | Stationary fuel combustion | Industrial processes | Solid waste | Other |
|----------------------------|-------------|----------------|---|----------------------|-------------|-------|
| Particulate matter | | | | | | |
| | | | Emissions in 10 ⁶ metric tons per year | | | |
| 1970 | 19.0 | 1.2 | 5.1 | 10.5 | 1.1 | 1.1 |
| 1975 | 11.0 | 1.3 | 3.3 | 5.2 | 0.4 | 0.8 |
| 1980 | 9.1 | 1.3 | 3.0 | 3.3 | 0.3 | 1.1 |
| 1986 | 7.3 | 1.4 | 2.5 | 2.4 | 0.3 | 0.8 |
| 1987 | 7.4 | 1.4 | 2.4 | 2.4 | 0.3 | 0.9 |
| 1988 | 7.9 | 1.5 | 2.4 | 2.5 | 0.3 | 1.3 |
| 1989 | 7.6 | 1.5 | 2.4 | 2.5 | 0.3 | 0.9 |
| 1990 | 7.4 | 1.5 | 1.9 | 2.5 | 0.3 | 1.2 |
| 1991 ¹ | 7.4 | 1.6 | 1.9 | 2.6 | 0.3 | 1.0 |
| Sulfur oxides | | | | | | |
| 1970 | 28.4 | 0.6 | 21.3 | 6.4 | 0.0 | 0.1 |
| 1975 | 25.5 | 0.6 | 20.2 | 4.6 | 0.0 | 0.0 |
| 1980 | 23.8 | 0.9 | 19.1 | 3.7 | 0.0 | 0.0 |
| 1986 | 21.2 | 0.9 | 17.1 | 3.2 | 0.0 | 0.0 |
| 1987 | 21.0 | 0.9 | 17.0 | 3.0 | 0.0 | 0.0 |
| 1988 | 21.3 | 0.9 | 17.3 | 3.1 | 0.0 | 0.0 |
| 1989 | 21.5 | 1.0 | 17.4 | 3.1 | 0.0 | 0.0 |
| 1990 | 21.1 | 1.0 | 17.0 | 3.1 | 0.0 | 0.0 |
| 1991 ¹ | 20.7 | 1.0 | 16.6 | 3.2 | 0.0 | 0.0 |
| Nitrogen oxides | | | | | | |
| 1970 | 19.0 | 8.5 | 9.1 | 0.7 | 0.4 | 0.3 |
| 1975 | 20.3 | 10.0 | 9.3 | 0.7 | 0.1 | 0.2 |
| 1980 | 23.6 | 12.5 | 10.1 | 0.7 | 0.1 | 0.2 |
| 1986 | 18.8 | 8.5 | 9.6 | 0.6 | 0.1 | 0.2 |
| 1987 | 19.0 | 8.1 | 10.1 | 0.6 | 0.1 | 0.2 |
| 1988 | 19.7 | 8.2 | 10.5 | 0.6 | 0.1 | 0.3 |
| 1989 | 19.3 | 7.9 | 10.6 | 0.6 | 0.1 | 0.2 |
| 1990 | 19.4 | 7.8 | 10.6 | 0.6 | 0.1 | 0.3 |
| 1991 ¹ | 18.8 | 7.3 | 10.6 | 0.6 | 0.1 | 0.2 |
| Volatile organic compounds | | | | | | |
| 1970 | 27.4 | 12.8 | 0.6 | 8.9 | 1.8 | 3.3 |
| 1975 | 22.5 | 10.3 | 0.6 | 8.2 | 0.9 | 2.5 |
| 1980 | 21.8 | 8.1 | 1.0 | 9.1 | 0.7 | 2.9 |
| 1986 | 18.5 | 6.9 | 0.9 | 7.9 | 0.6 | 2.2 |
| 1987 | 18.6 | 6.6 | 0.9 | 8.2 | 0.6 | 2.4 |
| 1988 | 18.6 | 6.3 | 0.9 | 8.0 | 0.6 | 2.9 |
| 1989 | 17.4 | 5.5 | 0.9 | 8.0 | 0.6 | 2.4 |
| 1990 | 17.6 | 5.5 | 0.6 | 8.0 | 0.6 | 2.8 |
| 1991 ¹ | 16.9 | 5.1 | 0.7 | 7.9 | 0.7 | 2.6 |
| Carbon monoxide | | | | | | |
| 1970 | 123.6 | 96.9 | 4.2 | 9.0 | 6.4 | 7.2 |
| 1975 | 104.8 | 86.2 | 4.0 | 6.9 | 2.9 | 4.8 |
| 1980 | 100.0 | 77.4 | 6.6 | 6.3 | 2.1 | 7.6 |
| 1986 | 76.0 | 58.7 | 6.3 | 4.2 | 1.7 | 5.1 |
| 1987 | 75.1 | 56.2 | 6.3 | 4.3 | 1.7 | 6.4 |
| 1988 | 75.5 | 53.5 | 6.3 | 4.6 | 1.7 | 9.5 |
| 1989 | 68.3 | 49.3 | 6.4 | 4.6 | 1.7 | 6.3 |
| 1990 | 67.7 | 48.5 | 4.3 | 4.6 | 1.7 | 8.6 |
| 1991 ¹ | 62.1 | 43.5 | 4.7 | 4.7 | 2.1 | 7.2 |
| Lead | | | | | | |
| | | | Emissions in 10 ³ metric tons per year | | | |
| 1970 | 199.1 | 163.6 | 9.6 | 23.9 | 2.0 | 0.0 |
| 1975 | 143.8 | 122.7 | 9.4 | 10.3 | 1.5 | 0.0 |
| 1980 | 68.0 | 59.4 | 3.9 | 3.6 | 1.1 | 0.0 |
| 1986 | 6.6 | 3.5 | 0.5 | 1.9 | 0.8 | 0.0 |
| 1987 | 6.2 | 3.0 | 0.5 | 1.9 | 0.8 | 0.0 |
| 1988 | 5.9 | 2.6 | 0.5 | 2.0 | 0.7 | 0.0 |
| 1989 | 5.5 | 2.2 | 0.5 | 2.2 | 0.7 | 0.0 |
| 1990 | 5.1 | 1.7 | 0.5 | 2.2 | 0.7 | 0.0 |
| 1991 ¹ | 5.0 | 1.6 | 0.5 | 2.2 | 0.7 | 0.0 |

¹Preliminary data.

NOTE: Because of ongoing improvements in methods for estimating emissions and changes in emission factors used to calculate emissions, data from this table should not be compared with data in previous editions of Health, United States.

SOURCE: Office of Air Quality Planning and Standards, Technical Support Division, Emission Inventory Branch: National Air Pollutant Emission Estimates, 1940–1991. EPA-454/R-92-013. U.S. Environmental Protection Agency. Research Triangle Park, N.C., Oct. 1992.

Table 75. Occupational injuries with lost workdays in the private sector, according to industry: United States, 1980–90

[Data are based on employer records from a sample of business establishments]

| Industry | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Number of injuries with lost workdays in thousands | | | | | | | | | | | |
| Total private sector ¹ | 2,491.0 | 2,408.9 | 2,141.3 | 2,140.3 | 2,449.7 | 2,484.7 | 2,533.2 | 2,721.3 | 2,880.4 | 2,955.5 | 2,987.3 |
| Agriculture, fishing, and forestry ¹ | 39.3 | 42.2 | 42.0 | 44.1 | 46.3 | 45.2 | 43.7 | 49.3 | 51.3 | 52.2 | 57.2 |
| Mining | 66.2 | 70.8 | 57.1 | 41.7 | 51.4 | 43.9 | 31.6 | 34.6 | 37.1 | 33.9 | 35.6 |
| Construction | 242.6 | 222.1 | 195.8 | 207.9 | 256.5 | 272.8 | 290.4 | 292.3 | 304.4 | 301.2 | 296.3 |
| Manufacturing | 1,009.5 | 951.0 | 760.1 | 738.6 | 841.8 | 825.1 | 825.4 | 923.2 | 1,007.3 | 1,007.4 | 975.0 |
| Transportation, communication, and public utilities | 263.0 | 252.3 | 230.0 | 215.7 | 249.3 | 243.5 | 235.7 | 247.5 | 261.3 | 273.9 | 293.3 |
| Wholesale trade | 191.1 | 177.1 | 166.7 | 159.0 | 179.3 | 188.4 | 195.8 | 203.3 | 214.7 | 230.3 | 211.5 |
| Retail trade | 330.2 | 328.3 | 322.1 | 343.5 | 395.0 | 399.9 | 421.0 | 445.0 | 461.6 | 480.6 | 483.9 |
| Finance, insurance, and real estate | 38.1 | 37.5 | 41.1 | 41.2 | 44.3 | 45.5 | 49.1 | 49.9 | 54.0 | 52.6 | 63.7 |
| Services | 311.1 | 327.5 | 326.3 | 348.5 | 385.8 | 420.6 | 440.4 | 476.0 | 488.6 | 523.4 | 570.8 |
| Injuries with lost workdays per 100 full-time employees | | | | | | | | | | | |
| Total private sector ¹ | 3.9 | 3.7 | 3.4 | 3.4 | 3.6 | 3.6 | 3.6 | 3.7 | 3.8 | 3.9 | 3.9 |
| Agriculture, fishing, and forestry ¹ | 5.6 | 5.8 | 5.7 | 6.0 | 5.9 | 5.6 | 5.4 | 5.5 | 5.5 | 5.6 | 5.7 |
| Mining | 6.4 | 6.2 | 5.4 | 4.4 | 5.3 | 4.7 | 4.1 | 4.8 | 5.1 | 4.8 | 4.9 |
| Construction | 6.5 | 6.3 | 6.0 | 6.2 | 6.9 | 6.8 | 6.8 | 6.7 | 6.8 | 6.7 | 6.6 |
| Manufacturing | 5.2 | 4.9 | 4.3 | 4.2 | 4.5 | 4.4 | 4.5 | 5.0 | 5.3 | 5.3 | 5.3 |
| Transportation, communication, and public utilities | 5.4 | 5.2 | 4.8 | 4.7 | 5.1 | 4.9 | 4.8 | 4.9 | 5.0 | 5.2 | 5.4 |
| Wholesale trade | 3.8 | 3.5 | 3.4 | 3.2 | 3.4 | 3.5 | 3.6 | 3.7 | 3.8 | 3.9 | 3.6 |
| Retail trade | 2.9 | 2.9 | 2.9 | 3.0 | 3.2 | 3.1 | 3.2 | 3.3 | 3.3 | 3.4 | 3.4 |
| Finance, insurance, and real estate | 0.8 | 0.8 | 0.9 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.1 |
| Services | 2.3 | 2.3 | 2.3 | 2.3 | 2.4 | 2.5 | 2.5 | 2.6 | 2.6 | 2.6 | 2.7 |
| Total lost workdays per 100 full-time employees | | | | | | | | | | | |
| Total private sector ¹ | 63.7 | 60.4 | 57.5 | 57.2 | 61.8 | 63.3 | 63.9 | 67.3 | 72.6 | 74.2 | 78.3 |
| Agriculture, fishing, and forestry ¹ | 81.3 | 81.4 | 84.2 | 89.5 | 89.4 | 90.1 | 92.4 | 92.5 | 99.8 | 99.4 | 108.9 |
| Mining | 162.8 | 145.7 | 136.7 | 124.1 | 159.3 | 144.3 | 124.4 | 142.5 | 150.3 | 134.7 | 117.7 |
| Construction | 116.1 | 112.1 | 114.6 | 117.3 | 126.7 | 128.1 | 133.3 | 134.9 | 141.1 | 141.6 | 146.1 |
| Manufacturing | 84.0 | 79.4 | 72.4 | 70.4 | 74.2 | 76.2 | 80.2 | 87.9 | 96.4 | 98.7 | 103.0 |
| Transportation, communication, and public utilities | 103.3 | 100.0 | 95.8 | 94.4 | 104.2 | 106.3 | 101.0 | 107.1 | 117.5 | 120.0 | 131.6 |
| Wholesale trade | 57.1 | 53.5 | 51.6 | 50.1 | 54.8 | 59.1 | 62.0 | 63.2 | 68.4 | 70.7 | 69.5 |
| Retail trade | 44.1 | 40.8 | 42.1 | 46.3 | 47.9 | 46.2 | 50.0 | 52.2 | 56.2 | 59.0 | 61.4 |
| Finance, insurance, and real estate | 11.6 | 11.3 | 12.8 | 12.4 | 13.2 | 14.6 | 16.0 | 13.8 | 16.3 | 16.5 | 24.8 |
| Services | 34.5 | 34.7 | 35.1 | 36.2 | 40.3 | 44.7 | 42.2 | 44.8 | 47.1 | 49.9 | 54.6 |

¹Excludes farms with fewer than 11 employees.

NOTES: Industry is coded based on various editions of the Standard Industrial Classification Manual as follows: data for 1980–87 are based on the 1972 Edition, 1977 Supplement; and data for 1988–90 are based on the 1987 Edition (See Appendix II).

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor: Occupational Injuries and Illnesses in the United States by Industry, 1980–90 Editions, 1981–1992.

Table 76. Production employees with potential exposure to elemental lead or to continuous noise, according to industry and size of facility: United States, 1972–74 and 1981–83

[Data are based on interviews of a sample of nonagricultural businesses]

| Industry | All facilities | | 8-99 employees | | 100-499 employees | | 500 or more employees | |
|---|----------------|---------|----------------|---------|-------------------|---------|-----------------------|---------|
| | 1972-74 | 1981-83 | 1972-74 | 1981-83 | 1972-74 | 1981-83 | 1972-74 | 1981-83 |
| Number of employees in thousands | | | | | | | | |
| All production employees ¹ | 28,379 | 19,546 | 9,957 | 7,303 | 8,331 | 6,091 | 10,091 | 6,151 |
| Textile mill products | 246 | 546 | 94 | 82 | 109 | 261 | *43 | 203 |
| Apparel and other textile mill products | 920 | 991 | 515 | 345 | 367 | 482 | *38 | *164 |
| Lumber and wood products | 217 | 442 | 105 | 230 | 85 | 143 | *27 | *70 |
| Printing and publishing | 1,248 | 636 | 365 | 283 | 306 | 218 | 578 | 135 |
| Chemicals and allied products | 964 | 462 | 193 | 106 | 192 | 132 | 579 | 224 |
| Rubber and miscellaneous plastics | 508 | 473 | 132 | 165 | 171 | 204 | 205 | 104 |
| Stone, clay, and glass products | 687 | 382 | 173 | 175 | 300 | 124 | *214 | *83 |
| Primary metals industries | 1,322 | 556 | 112 | 96 | 215 | 212 | 995 | 248 |
| Fabricated metal products | 1,441 | 967 | 515 | 393 | 522 | 379 | 404 | 194 |
| Machinery, except electrical | 1,529 | 1,270 | 271 | 418 | 359 | 338 | 900 | 513 |
| Electrical and electronic machinery, equipment, and supplies | 1,493 | 964 | 97 | 143 | 326 | 327 | 1,070 | 494 |
| Transportation equipment | 1,160 | 837 | 95 | 95 | 131 | 155 | 935 | 587 |
| Measuring, analyzing, and controlling instruments; photographic, medical, and optical goods; watches and clocks . . | 392 | 328 | 91 | 66 | 74 | 92 | 227 | 170 |
| Miscellaneous manufacturing industries . . . | 393 | 360 | 140 | 109 | 159 | 104 | *93 | *147 |
| Percent of employees with any potential exposure to elemental lead | | | | | | | | |
| All production employees ¹ | 0.6 | 3.6 | 0.4 | 3.4 | 0.4 | 4.0 | 0.9 | 3.6 |
| Textile mill products | — | 0.1 | — | 0.1 | — | 0.2 | *— | 0.3 |
| Apparel and other textile mill products | 0.1 | 0.6 | 0.0 | 0.1 | — | 0.7 | *— | *1.1 |
| Lumber and wood products | — | 0.6 | — | 0.7 | — | 0.4 | *— | *0.5 |
| Printing and publishing | 1.7 | 2.0 | 3.1 | 2.9 | 1.0 | 1.0 | 1.2 | 1.6 |
| Chemicals and allied products | 1.1 | 4.4 | 0.4 | 1.9 | 2.6 | 5.2 | 0.8 | 5.1 |
| Rubber and miscellaneous plastics | 0.2 | 2.0 | 0.1 | 3.7 | 0.2 | 0.6 | 0.5 | 2.1 |
| Stone, clay, and glass products | 1.7 | 4.0 | 0.3 | 2.7 | 1.2 | 0.5 | *3.5 | *12.3 |
| Primary metals industries | 0.5 | 3.0 | 0.3 | 3.6 | 0.2 | 4.9 | 0.7 | 1.1 |
| Fabricated metal products | 0.2 | 4.8 | 0.1 | 0.8 | 0.4 | 9.8 | 0.1 | 3.2 |
| Machinery, except electrical | 0.7 | 6.1 | 0.3 | 3.8 | 1.2 | 8.8 | 0.6 | 6.1 |
| Electrical and electronic machinery, equipment, and supplies | 1.2 | 18.5 | 0.4 | 23.4 | 2.1 | 15.8 | 1.0 | 18.9 |
| Transportation equipment | 1.1 | 1.1 | 0.9 | — | 0.5 | 0.3 | 1.2 | 1.5 |
| Measuring, analyzing, and controlling instruments; photographic, medical, and optical goods; watches and clocks . . | 1.0 | — | 2.9 | — | 0.7 | — | 0.4 | — |
| Miscellaneous manufacturing industries . . . | 0.5 | 4.8 | 1.1 | 6.2 | 0.1 | 3.0 | *0.2 | *5.0 |
| Percent of employees with potential exposure to continuous noise at 85 dBA or greater | | | | | | | | |
| All production employees ¹ | 22.4 | 21.2 | 14.7 | 17.3 | 24.4 | 24.9 | 28.3 | 22.0 |
| Textile mill products | 36.2 | 48.0 | 29.1 | 36.4 | 43.0 | 51.6 | *34.2 | 48.2 |
| Apparel and other textile mill products | 21.4 | 15.2 | 20.5 | 5.8 | 23.2 | 16.5 | *14.9 | *31.4 |
| Lumber and wood products | 42.8 | 44.4 | 48.9 | 45.0 | 28.9 | 53.3 | *63.1 | *24.4 |
| Printing and publishing | 24.0 | 24.4 | 20.4 | 19.5 | 12.0 | 26.0 | 32.7 | 32.0 |
| Chemicals and allied products | 13.1 | 22.2 | 15.3 | 14.8 | 22.8 | 19.7 | 9.1 | 27.2 |
| Rubber and miscellaneous plastics | 52.9 | 28.7 | 48.9 | 20.0 | 55.4 | 33.7 | 53.4 | 32.4 |
| Stone, clay, and glass products | 32.6 | 24.7 | 28.1 | 22.2 | 38.9 | 29.6 | *27.3 | *27.3 |
| Primary metals industries | 53.5 | 48.4 | 45.2 | 33.4 | 68.0 | 53.2 | 51.3 | 50.2 |
| Fabricated metal products | 49.5 | 34.9 | 40.6 | 33.0 | 55.6 | 34.8 | 53.0 | 38.5 |
| Machinery, except electrical | 31.1 | 18.1 | 28.2 | 17.3 | 29.0 | 19.7 | 32.8 | 17.6 |
| Electrical and electronic machinery, equipment, and supplies | 13.1 | 10.8 | 6.7 | 9.9 | 17.4 | 7.2 | 12.3 | 13.6 |
| Transportation equipment | 48.3 | 28.5 | 24.2 | 32.4 | 48.9 | 32.5 | 50.6 | 26.8 |
| Measuring, analyzing, and controlling instruments; photographic, medical, and optical goods; watches and clocks . . | 14.5 | 14.5 | 2.2 | 7.6 | 16.9 | 6.1 | 18.6 | 22.0 |
| Miscellaneous manufacturing industries . . . | 31.0 | 10.9 | 22.7 | 16.3 | 34.6 | 19.3 | *37.1 | *1.0 |

¹Production employees work in locations where production or service work is conducted.

*Based on fewer than 10 facilities.

NOTES: Data are displayed for elemental lead (Chemical Abstract Number 7439921) only. These data do not include potential exposures to lead in approximately 150 compounds also measured in the surveys. Industry categories are based on the Standard Industrial Classification (SIC) Manual. For a listing of the code numbers, see Appendix II, table VI.

SOURCE: Centers for Disease Control and Prevention: National Institute for Occupational Safety and Health: Unpublished data from the 1972–74 National Occupational Hazard Survey and 1981–83 National Occupational Exposure Survey.

**Table 77. Health and safety services available in nonagricultural industries, according to size of facility:
United States, 1972-74 and 1981-83**

[Data are based on interviews of a sample of nonagricultural businesses]

| Health and safety services available in facility | All facilities | | 8-99 employees | | 100-499 employees | | 500 or more employees | |
|---|----------------|---------|----------------------|---------|-------------------|---------|-----------------------|---------|
| | 1972-74 | 1981-83 | 1972-74 ¹ | 1981-83 | 1972-74 | 1981-83 | 1972-74 | 1981-83 |
| Number of employees in thousands | | | | | | | | |
| All employees | 38,263 | 33,413 | 15,394 | 11,083 | 10,883 | 9,870 | 11,985 | 12,460 |
| Percent of employees | | | | | | | | |
| Occupational health and safety practices | | | | | | | | |
| Regularly monitor environmental conditions ² | 21.7 | 48.5 | 2.5 | 11.2 | 12.1 | 43.6 | 55.2 | 85.7 |
| Personal protective devices in some work areas ³ | 39.2 | 53.4 | 32.5 | 45.9 | 46.1 | 59.1 | 41.4 | 55.5 |
| Employer provides protective devices | 52.5 | 80.2 | 41.9 | 70.4 | 60.1 | 82.9 | 59.4 | 86.8 |
| Medical facilities and practices | | | | | | | | |
| Health unit at facility | 31.5 | 43.0 | 3.3 | 3.8 | 18.4 | 31.7 | 79.6 | 86.9 |
| Access to physician or clinic | 70.7 | 77.2 | 49.0 | 53.2 | 76.2 | 79.1 | 93.5 | 96.9 |
| Physician available on-site | 18.8 | 26.6 | 1.2 | 1.3 | 4.3 | 8.2 | 52.7 | 63.7 |
| Physician available off-site | 17.0 | 52.7 | 17.5 | 50.5 | 25.2 | 67.1 | 8.8 | 43.2 |
| Preemployment medical exams | 38.5 | 49.9 | 12.8 | 20.0 | 35.2 | 47.1 | 74.5 | 78.4 |
| Periodic tests available | 14.4 | 30.5 | 6.0 | 8.4 | 13.5 | 26.7 | 25.9 | 53.1 |
| Audiometric tests available | 5.1 | 16.7 | 1.4 | 5.0 | 3.7 | 16.8 | 11.1 | 26.6 |
| Blood tests available | 3.0 | 14.5 | 1.3 | 4.0 | 3.7 | 9.9 | 4.7 | 27.4 |
| Records of employee absenteeism showing type of illness | 14.2 | 17.6 | 4.7 | 9.5 | 9.5 | 18.3 | 30.8 | 24.1 |

¹Includes facilities with fewer than eight employees.

²Monitoring environmental conditions such as presence of fumes, gases, dust, noise, vibration, and radiation.

³Includes respirators, protective clothing, etc.

SOURCE: Centers for Disease Control and Prevention: National Institute for Occupational Safety and Health, National Occupational Exposure Survey: Analysis of Management Interview Responses. DHHS Pub. No. (NIOSH) 89-103. Public Health Service. Washington. U.S. Government Printing Office, 1989.

**Table 78. Physician contacts, according to place of contact and selected patient characteristics:
United States, 1986 and 1991**

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Place of contact | | | | | | | | | | | | |
|------------------------------------|--------------------|------|-----------------|------|---|------|-----------|------|------|------|--------------------|------|------|
| | Physician contacts | | Doctor's office | | Hospital outpatient department ¹ | | Telephone | | Home | | Other ² | | |
| | 1986 | 1991 | Total | 1986 | 1991 | 1986 | 1991 | 1986 | 1991 | 1986 | 1991 | 1986 | 1991 |
| Number per person | | | | | | | | | | | | | |
| Total ^{3,4} | 5.3 | 5.6 | 100.0 | 56.0 | 58.9 | 15.1 | 14.2 | 13.3 | 12.2 | 2.2 | 2.7 | 13.4 | 11.9 |
| Percent distribution | | | | | | | | | | | | | |
| Age | | | | | | | | | | | | | |
| Under 15 years | 4.4 | 4.7 | 100.0 | 57.7 | 61.4 | 12.2 | 13.6 | 17.7 | 14.2 | *0.3 | *0.6 | 12.1 | 10.1 |
| Under 5 years | 6.3 | 7.1 | 100.0 | 59.4 | 61.2 | 10.8 | 13.5 | 18.0 | 16.5 | *0.2 | *0.8 | 11.5 | 8.1 |
| 5-14 years | 3.4 | 3.4 | 100.0 | 56.0 | 61.7 | 13.6 | 13.7 | 17.3 | 11.7 | *0.4 | *0.5 | 12.7 | 12.4 |
| 15-44 years | 4.5 | 4.7 | 100.0 | 55.5 | 58.0 | 16.1 | 14.6 | 11.5 | 12.2 | 0.9 | 1.1 | 16.0 | 14.2 |
| 45-64 years | 6.6 | 6.6 | 100.0 | 55.5 | 58.2 | 18.8 | 15.6 | 11.7 | 11.3 | 2.3 | 3.1 | 11.6 | 11.8 |
| 65 years and over | 9.1 | 10.4 | 100.0 | 54.2 | 56.9 | 11.8 | 11.5 | 10.8 | 8.4 | 12.9 | 14.9 | 10.3 | 8.3 |
| 65-74 years | 8.1 | 9.2 | 100.0 | 56.6 | 61.1 | 12.9 | 12.9 | 11.6 | 9.2 | 8.1 | 7.5 | 10.8 | 9.3 |
| 75 years and over..... | 10.6 | 12.3 | 100.0 | 51.2 | 52.1 | 10.4 | 9.8 | 9.9 | 7.5 | 18.8 | 23.4 | 9.7 | 7.2 |
| Sex ³ | | | | | | | | | | | | | |
| Male | 4.6 | 4.9 | 100.0 | 54.9 | 57.8 | 18.5 | 16.0 | 11.1 | 11.1 | 1.6 | 2.4 | 14.0 | 12.7 |
| Female | 6.0 | 6.3 | 100.0 | 56.6 | 59.5 | 12.7 | 12.9 | 14.9 | 12.9 | 2.6 | 2.9 | 13.2 | 11.7 |
| Race ³ | | | | | | | | | | | | | |
| White | 5.4 | 5.8 | 100.0 | 57.5 | 60.1 | 13.8 | 13.0 | 14.2 | 12.8 | 2.2 | 2.6 | 12.4 | 11.5 |
| Black | 4.8 | 5.2 | 100.0 | 44.2 | 52.0 | 24.4 | 21.2 | 7.4 | 7.3 | 2.4 | 3.6 | 21.7 | 15.8 |
| Family income ^{3,5} | | | | | | | | | | | | | |
| Less than \$14,000..... | 6.4 | 6.8 | 100.0 | 45.6 | 48.7 | 20.7 | 20.2 | 11.1 | 10.1 | 2.9 | 3.8 | 19.7 | 17.2 |
| \$14,000-\$24,999..... | 5.3 | 5.6 | 100.0 | 54.8 | 55.9 | 18.8 | 16.6 | 13.1 | 12.4 | 0.9 | 1.7 | 12.5 | 13.4 |
| \$25,000-\$34,999..... | 5.3 | 5.5 | 100.0 | 56.9 | 60.7 | 13.0 | 13.6 | 15.2 | 12.8 | 1.6 | 1.7 | 13.4 | 11.3 |
| \$35,000-\$49,999..... | 5.3 | 5.8 | 100.0 | 60.1 | 61.4 | 13.3 | 12.4 | 13.6 | 13.5 | 1.0 | 1.7 | 12.0 | 11.0 |
| \$50,000 or more | 5.5 | 5.8 | 100.0 | 59.9 | 64.2 | 11.3 | 10.6 | 14.3 | 14.4 | 3.9 | 1.5 | 10.6 | 9.3 |
| Geographic region ³ | | | | | | | | | | | | | |
| Northeast | 4.9 | 5.4 | 100.0 | 54.5 | 61.6 | 16.9 | 14.2 | 13.1 | 10.6 | 2.7 | 1.5 | 12.8 | 12.1 |
| Midwest | 5.5 | 5.8 | 100.0 | 51.7 | 57.5 | 14.9 | 13.6 | 15.3 | 13.8 | 2.5 | 4.3 | 15.6 | 10.7 |
| South | 5.2 | 5.5 | 100.0 | 59.5 | 61.0 | 13.9 | 13.4 | 12.6 | 12.1 | 2.0 | 2.9 | 12.1 | 10.6 |
| West..... | 5.9 | 5.9 | 100.0 | 57.0 | 55.2 | 15.7 | 16.2 | 12.0 | 12.0 | 1.8 | 1.6 | 13.5 | 15.0 |
| Location of residence ³ | | | | | | | | | | | | | |
| Within MSA | 5.4 | 5.8 | 100.0 | 56.0 | 58.5 | 14.9 | 13.8 | 13.6 | 12.6 | 1.9 | 2.7 | 13.6 | 12.4 |
| Outside MSA..... | 5.2 | 5.1 | 100.0 | 56.1 | 60.7 | 15.8 | 16.1 | 12.3 | 10.6 | 3.1 | 2.5 | 12.7 | 10.2 |

¹Includes hospital outpatient clinic, emergency room, and other hospital contacts.

²Includes clinics or other places outside a hospital.

³Age adjusted.

⁴Includes all other races not shown separately and unknown family income.

⁵Family income categories for 1991. Income categories for 1986 are: less than \$11,000; \$11,000-\$19,999; \$20,000-\$29,999; \$30,000-\$39,999; and \$40,000 or more.

*Relative standard error greater than 30 percent.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Interview Statistics: Data from the National Health Interview Survey.

Table 79. Interval since last physician contact, according to selected patient characteristics: United States, 1964, 1986, and 1991

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Total | Less than 1 year | | | 1 year-less than 2 years | | | 2 years or more ¹ | | |
|------------------------------------|-------|------------------|------|------|--------------------------|------|------|------------------------------|------|------|
| | | 1964 | 1986 | 1991 | 1964 | 1986 | 1991 | 1964 | 1986 | 1991 |
| Percent distribution ² | | | | | | | | | | |
| Total ^{3,4} | 100.0 | 66.9 | 76.5 | 78.9 | 14.0 | 10.1 | 9.9 | 19.1 | 13.4 | 11.2 |
| Age | | | | | | | | | | |
| Under 15 years..... | 100.0 | 68.4 | 81.6 | 84.1 | 14.8 | 10.8 | 10.0 | 16.7 | 7.6 | 5.9 |
| Under 5 years..... | 100.0 | 80.7 | 92.4 | 94.4 | 11.1 | 5.5 | 4.5 | 8.2 | 2.1 | 1.2 |
| 5-14 years..... | 100.0 | 61.7 | 75.8 | 78.6 | 16.9 | 13.6 | 12.9 | 21.4 | 10.6 | 8.5 |
| 15-44 years..... | 100.0 | 66.3 | 71.9 | 73.7 | 15.0 | 11.6 | 11.7 | 18.7 | 16.5 | 14.6 |
| 45-64 years..... | 100.0 | 64.5 | 75.0 | 78.0 | 13.0 | 8.6 | 8.7 | 22.5 | 16.4 | 13.3 |
| 65 years and over..... | 100.0 | 69.7 | 84.1 | 87.6 | 9.3 | 5.1 | 4.6 | 21.0 | 10.8 | 7.9 |
| 65-74 years..... | 100.0 | 68.8 | 82.2 | 86.2 | 9.4 | 5.5 | 4.9 | 21.8 | 12.3 | 9.0 |
| 75 years and over..... | 100.0 | 71.3 | 87.2 | 89.8 | 9.3 | 4.4 | 4.0 | 19.5 | 8.3 | 6.2 |
| Sex ³ | | | | | | | | | | |
| Male..... | 100.0 | 63.5 | 71.4 | 74.0 | 15.0 | 11.3 | 11.1 | 21.5 | 17.3 | 14.8 |
| Female..... | 100.0 | 69.9 | 81.3 | 83.5 | 13.1 | 9.0 | 8.7 | 17.0 | 9.7 | 7.7 |
| Race ³ | | | | | | | | | | |
| White..... | 100.0 | 68.1 | 77.1 | 79.3 | 13.8 | 9.9 | 9.6 | 18.1 | 13.0 | 11.0 |
| Black ⁵ | 100.0 | 58.3 | 74.7 | 78.3 | 15.1 | 11.3 | 11.0 | 26.6 | 14.0 | 10.7 |
| Family income ^{3,6} | | | | | | | | | | |
| Less than \$14,000..... | 100.0 | 58.6 | 75.8 | 78.1 | 13.2 | 9.6 | 9.1 | 28.2 | 14.5 | 12.8 |
| \$14,000-\$24,999..... | 100.0 | 62.5 | 74.2 | 76.4 | 14.2 | 10.7 | 10.5 | 23.3 | 15.1 | 13.1 |
| \$25,000-\$34,999..... | 100.0 | 66.8 | 76.8 | 78.5 | 14.5 | 9.6 | 10.0 | 18.7 | 13.6 | 11.6 |
| \$35,000-\$49,999..... | 100.0 | 70.2 | 78.6 | 80.8 | 14.0 | 9.2 | 9.8 | 15.7 | 12.2 | 9.5 |
| \$50,000 or more..... | 100.0 | 73.6 | 80.4 | 83.2 | 12.9 | 9.0 | 8.3 | 13.5 | 10.6 | 8.5 |
| Geographic region ³ | | | | | | | | | | |
| Northeast..... | 100.0 | 68.0 | 78.1 | 81.9 | 14.1 | 9.7 | 8.7 | 17.9 | 12.2 | 9.4 |
| Midwest..... | 100.0 | 66.6 | 77.6 | 79.9 | 14.2 | 10.0 | 9.6 | 19.2 | 12.4 | 10.5 |
| South..... | 100.0 | 65.2 | 75.4 | 77.0 | 13.9 | 10.9 | 11.1 | 20.9 | 13.6 | 11.9 |
| West..... | 100.0 | 69.0 | 75.6 | 78.2 | 13.7 | 9.2 | 9.5 | 17.3 | 15.2 | 12.3 |
| Location of residence ³ | | | | | | | | | | |
| Within MSA..... | 100.0 | 68.2 | 77.1 | 79.6 | 14.0 | 9.8 | 9.7 | 17.8 | 13.1 | 10.7 |
| Outside MSA..... | 100.0 | 64.0 | 74.4 | 76.5 | 14.1 | 11.3 | 10.7 | 21.9 | 14.3 | 12.8 |

¹Includes persons who never visited a physician.

²Denominator excludes persons with unknown interval.

³Age adjusted.

⁴Includes all other races not shown separately and unknown family income.

⁵1964 data include all other races.

⁶Family income categories for 1991. Income categories in 1964 are: less than \$2,000; \$2,000-\$3,999; \$4,000-\$6,999; \$7,000-\$9,999; and \$10,000 or more; and, in 1986 are: less than \$11,000; \$11,000-\$19,999; \$20,000-\$29,999; \$30,000-\$39,999; and \$40,000 or more.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Interview Statistics: Data from the National Health Interview Survey.

Table 80. Office visits to physicians, according to physician specialty and selected patient characteristics: United States, 1985 and 1990

[Data are based on reporting by a sample of office-based physicians]

| Characteristic | All specialties | General and family practice | | Internal medicine | | Pediatrics | | Obstetrics and gynecology | |
|------------------------|-----------------|-----------------------------|------|-------------------|------|------------|------|---------------------------|------|
| | | 1985 | 1990 | 1985 | 1990 | 1985 | 1990 | 1985 | 1990 |
| Percent distribution | | | | | | | | | |
| Total | 100.0 | 30.5 | 29.8 | 11.6 | 13.7 | 11.4 | 11.5 | 8.9 | 8.7 |
| Age | | | | | | | | | |
| Under 15 years..... | 100.0 | 25.0 | 25.2 | 2.2 | 2.3 | 55.2 | 54.4 | 0.5 | 0.5 |
| 15-44 years..... | 100.0 | 33.0 | 32.0 | 8.3 | 11.4 | 2.6 | 2.0 | 19.1 | 19.7 |
| 45-64 years..... | 100.0 | 32.0 | 32.0 | 15.7 | 18.5 | * | * | 4.7 | 4.6 |
| 65 years and over..... | 100.0 | 29.1 | 28.0 | 22.1 | 23.3 | * | * | 1.4 | 1.1 |
| 65-74 years | 100.0 | 28.8 | 28.0 | 22.1 | 22.9 | * | * | 2.0 | 2.0 |
| 75 years and over..... | 100.0 | 29.4 | 28.0 | 22.1 | 23.7 | * | * | * | * |
| Male | | | | | | | | | |
| 15-44 years..... | 100.0 | 36.4 | 35.1 | 9.9 | 14.5 | 2.5 | 2.8 | * | * |
| 45-64 years..... | 100.0 | 31.0 | 30.9 | 16.0 | 19.1 | * | * | * | * |
| 65 years and over..... | 100.0 | 28.1 | 27.7 | 20.8 | 23.3 | * | * | * | * |
| Female | | | | | | | | | |
| 15-44 years..... | 100.0 | 31.3 | 30.5 | 7.5 | 9.9 | 2.6 | 1.7 | 28.4 | 29.2 |
| 45-64 years..... | 100.0 | 32.7 | 32.7 | 15.5 | 18.1 | * | * | 7.7 | 7.7 |
| 65 years and over..... | 100.0 | 29.7 | 28.2 | 23.0 | 23.3 | * | * | 2.3 | 1.8 |
| Race | | | | | | | | | |
| White..... | 100.0 | 30.0 | 29.7 | 11.8 | 13.1 | 11.4 | 11.2 | 8.7 | 8.7 |
| Black..... | 100.0 | 35.4 | 28.6 | 10.4 | 20.0 | 11.3 | 12.1 | 9.9 | 8.5 |

| Characteristic | General surgery | | Ophthalmology | | Orthopedic surgery | | Dermatology | | All others | |
|------------------------|-----------------|------|---------------|------|--------------------|------|-------------|------|------------|------|
| | 1985 | 1990 | 1985 | 1990 | 1985 | 1990 | 1985 | 1990 | 1985 | 1990 |
| Percent distribution | | | | | | | | | | |
| Total | 4.7 | 3.2 | 6.3 | 6.2 | 5.0 | 4.7 | 3.8 | 3.4 | 17.9 | 18.8 |
| Age | | | | | | | | | | |
| Under 15 years..... | 1.4 | 0.7 | 2.6 | 1.6 | 2.9 | 2.4 | 1.4 | 1.5 | 9.0 | 11.5 |
| 15-44 years..... | 4.4 | 3.2 | 3.9 | 3.1 | 6.1 | 6.0 | 5.1 | 4.5 | 17.4 | 18.2 |
| 45-64 years..... | 6.6 | 4.1 | 7.1 | 7.2 | 6.1 | 5.2 | 3.8 | 3.7 | 23.6 | 24.5 |
| 65 years and over..... | 6.2 | 4.4 | 13.5 | 14.9 | 3.4 | 4.0 | 3.4 | 3.0 | 20.8 | 21.1 |
| 65-74 years | 6.4 | 4.3 | 11.2 | 12.2 | 3.6 | 4.2 | 3.5 | 3.5 | 22.4 | 23.2 |
| 75 years and over..... | 6.0 | 4.6 | 16.6 | 18.5 | 3.1 | 3.9 | 3.3 | 2.4 | 18.7 | 18.3 |
| Male | | | | | | | | | | |
| 15-44 years..... | 5.0 | 3.8 | 5.2 | 4.2 | 11.0 | 10.9 | 6.7 | 5.5 | 23.1 | 23.3 |
| 45-64 years..... | 6.2 | 3.6 | 7.2 | 7.6 | 7.0 | 5.7 | 4.8 | 4.3 | 27.5 | 28.4 |
| 65 years and over..... | 6.7 | 4.1 | 11.8 | 13.4 | 2.6 | 3.0 | 4.0 | 3.7 | 25.8 | 24.8 |
| Female | | | | | | | | | | |
| 15-44 years..... | 4.1 | 2.9 | 3.3 | 2.5 | 3.8 | 3.6 | 4.4 | 4.0 | 14.6 | 15.7 |
| 45-64 years..... | 6.9 | 4.5 | 7.0 | 6.8 | 5.5 | 4.8 | 3.2 | 3.3 | 21.0 | 21.9 |
| 65 years and over..... | 5.9 | 4.7 | 14.5 | 15.9 | 3.8 | 4.7 | 3.0 | 2.6 | 17.7 | 18.8 |
| Race | | | | | | | | | | |
| White..... | 4.6 | 3.1 | 6.4 | 6.4 | 5.0 | 4.8 | 3.9 | 3.6 | 18.4 | 19.6 |
| Black..... | 6.2 | 5.4 | 4.7 | 4.7 | 4.8 | 3.2 | 3.2 | 1.3 | 14.0 | 16.3 |

*Relative standard error greater than 30 percent.

NOTES: Rates are based on the civilian noninstitutionalized population. In 1985 the survey excluded Alaska and Hawaii. Beginning in 1989, the survey included all 50 States.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Care Statistics: Data from the National Ambulatory Medical Care Survey.

Table 81. Office visits to physicians, according to selected patient and visit characteristics and physician specialty: United States, 1985 and 1990

[Data are based on reporting by a sample of office-based physicians]

| Characteristic | All specialties | | | | Patient's first visit | | Visit lasted 10 minutes or less ¹ | | Return visit scheduled | | |
|--|-----------------|-------------------|---------|-----------------------------|-----------------------|-------------------------------|--|------------|------------------------|-------------------|--|
| | 1985 | 1990 | 1985 | 1990 | 1985 | 1990 | 1985 | 1990 | 1985 | 1990 | |
| | | Visits per person | | | | Number of visits in thousands | | | | Percent of visits | |
| Total | 2.7 | 2.9 | 636,386 | 704,604 | 16.9 | 16.2 | 41.0 | 38.4 | 61.5 | 62.1 | |
| <i>Age</i> | | | | | | | | | | | |
| Under 15 years | 2.3 | 2.5 | 118,768 | 138,427 | 17.8 | 16.5 | 50.9 | 53.9 | 49.2 | 47.9 | |
| 15-44 years | 2.3 | 2.3 | 249,688 | 263,113 | 20.9 | 20.5 | 41.7 | 38.8 | 59.0 | 59.2 | |
| 45-64 years | 3.1 | 3.2 | 137,391 | 149,786 | 14.9 | 14.6 | 36.4 | 32.3 | 65.7 | 67.1 | |
| 65 years and over | 4.8 | 5.1 | 130,538 | 153,278 | 10.6 | 10.0 | 35.6 | 29.9 | 72.9 | 75.0 | |
| 65-74 years | 4.5 | 4.8 | 75,427 | 86,422 | 11.3 | 11.0 | 34.7 | 29.9 | 72.7 | 74.6 | |
| 75 years and over | 5.4 | 5.7 | 55,111 | 66,856 | 9.7 | 8.8 | 36.9 | 29.9 | 73.2 | 75.5 | |
| <i>Sex</i> | | | | | | | | | | | |
| Male | 2.2 | 2.3 | 248,905 | 277,452 | 18.3 | 18.5 | 42.2 | 39.6 | 59.2 | 59.6 | |
| Female | 3.2 | 3.4 | 387,481 | 427,151 | 16.0 | 14.7 | 40.2 | 37.7 | 62.9 | 63.7 | |
| <i>Race</i> | | | | | | | | | | | |
| White | 2.9 | 2.9 | 572,507 | 597,306 | 16.6 | 15.9 | 40.6 | 37.7 | 61.2 | 61.5 | |
| Black | 1.9 | 2.1 | 52,143 | 62,317 | 18.2 | 17.9 | 44.4 | 41.3 | 65.5 | 67.3 | |
| | | All specialties | | General and family practice | | Internal medicine | | Pediatrics | | General surgery | |
| Characteristic | 1985 | 1990 | 1985 | 1990 | 1985 | 1990 | 1985 | 1990 | 1985 | 1990 | |
| Percent of visits with drug administered or prescribed | | | | | | | | | | | |
| Total | 61.2 | 60.3 | 72.7 | 68.7 | 77.4 | 74.5 | 66.8 | 66.9 | 38.5 | 31.1 | |
| <i>Age</i> | | | | | | | | | | | |
| Under 15 years | 62.0 | 62.0 | 68.1 | 62.5 | 68.1 | 86.0 | 67.0 | 66.3 | 37.9 | 28.0 | |
| 15-44 years | 55.9 | 55.4 | 68.6 | 65.7 | 70.6 | 67.4 | 63.1 | 72.7 | 35.6 | 27.6 | |
| 45-64 years | 63.4 | 62.1 | 76.1 | 73.3 | 79.3 | 74.9 | * | * | 35.3 | 29.6 | |
| 65 years and over | 68.2 | 65.2 | 81.2 | 74.2 | 81.7 | 79.1 | * | * | 46.1 | 37.1 | |
| 65-74 years | 67.1 | 64.7 | 80.2 | 74.1 | 81.0 | 78.8 | * | * | 43.5 | 35.4 | |
| 75 years and over | 69.7 | 65.9 | 82.5 | 74.3 | 82.7 | 79.4 | * | * | 49.9 | 39.1 | |
| <i>Sex</i> | | | | | | | | | | | |
| Male | 60.2 | 59.5 | 70.5 | 67.5 | 74.1 | 72.4 | 65.7 | 66.6 | 41.3 | 29.7 | |
| Female | 61.8 | 60.8 | 74.1 | 69.4 | 79.5 | 75.9 | 67.7 | 67.1 | 36.7 | 31.9 | |
| <i>Race</i> | | | | | | | | | | | |
| White | 60.6 | 59.9 | 71.8 | 69.5 | 77.3 | 74.1 | 66.3 | 65.8 | 37.9 | 28.2 | |
| Black | 67.2 | 67.9 | 78.6 | 71.5 | 80.2 | 80.2 | 70.3 | 74.3 | 44.6 | * | |

¹Time spent in face-to-face contact between physician and patient.

*Relative standard error greater than 30 percent.

NOTES: Rates are based on the civilian noninstitutionalized population. In 1985 the survey excluded Alaska and Hawaii. Beginning in 1989, the survey included all 50 States.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Care Statistics: Data from the National Ambulatory Medical Care Survey.

Table 82. Dental visits and interval since last visit, according to selected patient characteristics: United States, 1964, 1983, and 1989

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Interval since last dental visit ¹ | | | | | | | | | | | |
|------------------------------------|---|------|------|------------------|------|------|-----------------------|------|------|-----------------------|------|------|
| | Dental visits | | | Less than 1 year | | | 2 years or more | | | Never visited dentist | | |
| | 1964 | 1983 | 1989 | 1964 | 1983 | 1989 | 1964 | 1983 | 1989 | 1964 | 1983 | 1989 |
| | Number per person | | | | | | Percent of population | | | | | |
| Total ^{2,3,4} | 1.6 | 1.9 | 2.1 | 42.7 | 55.3 | 57.7 | 28.7 | 24.1 | 21.4 | 15.5 | 7.7 | 6.4 |
| Age | | | | | | | | | | | | |
| 2-14 years ⁴ | 1.3 | 2.0 | 2.1 | 39.6 | 57.9 | 60.5 | 5.4 | 7.6 | 6.6 | 46.6 | 23.5 | 19.7 |
| 2-4 years ⁴ | 0.3 | 0.7 | 0.9 | 11.1 | 28.4 | 32.1 | 0.3 | 1.0 | 1.0 | 87.0 | 64.2 | 55.0 |
| 5-14 years | 1.9 | 2.5 | 2.5 | 55.1 | 67.3 | 69.5 | 8.2 | 9.7 | 8.4 | 24.6 | 10.5 | 8.6 |
| 15-44 years | 1.9 | 1.9 | 2.0 | 51.8 | 58.5 | 59.7 | 26.9 | 24.3 | 22.8 | 4.0 | 1.7 | 1.4 |
| 45-64 years | 1.7 | 2.0 | 2.4 | 39.1 | 53.1 | 56.8 | 46.3 | 34.3 | 28.9 | 1.3 | 0.6 | 0.4 |
| 65 years and over | 0.8 | 1.5 | 2.0 | 21.5 | 38.6 | 43.2 | 69.0 | 51.3 | 43.7 | 1.5 | 0.9 | 0.5 |
| 65-74 years | 0.9 | 1.8 | 2.2 | 24.9 | 43.2 | 47.6 | 65.2 | 46.9 | 39.7 | 1.1 | 0.8 | 0.4 |
| 75 years and over | 0.6 | 1.1 | 1.8 | 14.9 | 31.1 | 36.3 | 76.3 | 58.4 | 50.0 | 2.4 | 1.0 | 0.6 |
| Sex ² | | | | | | | | | | | | |
| Male | 1.4 | 1.7 | 2.0 | 40.9 | 53.3 | 55.4 | 29.6 | 25.7 | 23.2 | 16.1 | 7.9 | 6.7 |
| Female | 1.7 | 2.1 | 2.3 | 44.4 | 57.2 | 60.0 | 28.0 | 22.7 | 19.6 | 15.0 | 7.6 | 6.1 |
| Race ² | | | | | | | | | | | | |
| White | 1.7 | 2.0 | 2.3 | 45.3 | 57.5 | 60.0 | 27.8 | 23.0 | 20.2 | 13.8 | 7.2 | 6.1 |
| Black ⁵ | 0.8 | 1.2 | 1.2 | 22.3 | 41.1 | 44.0 | 37.6 | 32.2 | 29.5 | 28.0 | 10.3 | 7.7 |
| Family income ^{2,6} | | | | | | | | | | | | |
| Less than \$14,000 | 0.9 | 1.2 | 1.3 | 26.4 | 40.4 | 41.9 | 35.4 | 35.2 | 33.7 | 27.4 | 11.2 | 9.6 |
| \$14,000-\$24,999 | 0.9 | 1.5 | 1.6 | 30.0 | 46.7 | 49.5 | 35.2 | 29.7 | 27.5 | 22.0 | 9.8 | 7.8 |
| \$25,000-\$34,999 | 1.4 | 2.2 | 2.2 | 39.7 | 58.4 | 60.3 | 30.6 | 22.2 | 20.3 | 15.8 | 7.2 | 6.3 |
| \$35,000-\$49,999 | 1.9 | 2.5 | 2.7 | 50.1 | 68.2 | 69.7 | 25.3 | 16.2 | 15.1 | 10.9 | 4.5 | 4.5 |
| \$50,000 or more | 2.7 | 2.9 | 3.1 | 63.9 | 75.3 | 76.1 | 16.8 | 12.2 | 10.6 | 7.2 | 3.6 | 3.4 |
| Geographic region ² | | | | | | | | | | | | |
| Northeast | 2.1 | 2.4 | 2.2 | 48.5 | 61.5 | 61.4 | 26.1 | 20.9 | 17.9 | 12.5 | 5.7 | 4.8 |
| Midwest | 1.6 | 1.9 | 2.1 | 44.6 | 58.0 | 62.2 | 29.3 | 23.4 | 20.1 | 12.9 | 6.1 | 5.0 |
| South | 1.2 | 1.6 | 1.8 | 35.8 | 49.2 | 52.5 | 30.9 | 27.3 | 25.4 | 20.9 | 10.0 | 8.0 |
| West | 1.7 | 2.0 | 2.4 | 43.8 | 55.9 | 58.0 | 27.9 | 23.3 | 19.7 | 14.3 | 8.0 | 6.7 |
| Location of residence ² | | | | | | | | | | | | |
| Within MSA | 1.8 | 2.1 | 2.2 | 44.9 | 57.4 | 58.8 | 27.5 | 22.4 | 20.2 | 14.4 | 7.2 | 6.2 |
| Outside MSA | 1.2 | 1.6 | 1.7 | 37.8 | 51.0 | 54.2 | 31.8 | 27.6 | 25.5 | 17.9 | 8.6 | 6.8 |

¹Percent not shown for an interval of 1 year—less than 2 years. Denominators exclude persons with unknown interval (5.2 percent in 1989).

²Age adjusted.

³Includes all other races not shown separately and unknown family income.

⁴Data for 1983 and 1989 are shown for ages 2 years and over because children under 2 years of age rarely visit a dentist. For 1964, data for children under 2 years of age are included.

⁵1964 data are for all other races.

⁶Family income categories for 1989. Income categories in 1964 are: less than \$2,000; \$2,000-\$3,999; \$4,000-\$6,999; \$7,000-\$9,999; and \$10,000 or more; and, in 1983 are: less than \$10,000; \$10,000-\$18,999; \$19,000-\$29,999; \$30,000-\$39,999; and \$40,000 or more.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Interview Statistics: Data from the National Health Interview Survey.

Table 83. Discharges, days of care, and average length of stay in short-stay hospitals, according to selected characteristics: United States, 1964, 1986, and 1991

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Discharges | | | Days of care | | | Average length of stay | | |
|------------------------------------|-----------------------------|-------|-------|--------------|---------|---------|------------------------|------|------|
| | 1964 | 1986 | 1991 | 1964 | 1986 | 1991 | 1964 | 1986 | 1991 |
| | Number per 1,000 population | | | | | | Number of days | | |
| Total ^{1,2} | 109.1 | 98.3 | 88.7 | 970.9 | 685.1 | 586.6 | 8.9 | 7.0 | 6.6 |
| Age | | | | | | | | | |
| Under 15 years | 67.6 | 48.1 | 44.2 | 405.7 | 289.2 | 236.5 | 6.0 | 6.0 | 5.4 |
| Under 5 years | 94.3 | 73.8 | 73.3 | 731.1 | 562.5 | 424.7 | 7.8 | 7.6 | 5.8 |
| 5–14 years | 53.1 | 34.2 | 28.7 | 229.1 | 142.2 | 135.8 | 4.3 | 4.2 | 4.7 |
| 15–44 years | 100.6 | 70.0 | 62.8 | 760.7 | 432.8 | 365.2 | 7.6 | 6.2 | 5.8 |
| 45–64 years | 146.2 | 142.0 | 116.7 | 1,559.3 | 963.9 | 816.4 | 10.7 | 6.8 | 7.0 |
| 65 years and over | 190.0 | 275.3 | 272.8 | 2,292.7 | 2,347.5 | 2,085.7 | 12.1 | 8.5 | 7.6 |
| 65–74 years | 181.2 | 236.8 | 240.3 | 2,150.4 | 2,065.0 | 1,837.2 | 11.9 | 8.7 | 7.6 |
| 75 years and over | 206.7 | 337.3 | 322.5 | 2,560.4 | 2,802.4 | 2,464.8 | 12.4 | 8.3 | 7.6 |
| Sex ¹ | | | | | | | | | |
| Male | 103.8 | 102.0 | 89.2 | 1,010.2 | 726.4 | 599.6 | 9.7 | 7.1 | 6.7 |
| Female | 113.7 | 95.4 | 89.1 | 933.4 | 653.0 | 580.3 | 8.2 | 6.8 | 6.5 |
| Race ¹ | | | | | | | | | |
| White | 112.4 | 98.4 | 88.6 | 961.4 | 662.1 | 565.5 | 8.6 | 6.7 | 6.4 |
| Black ³ | 84.0 | 103.3 | 96.3 | 1,062.9 | 913.8 | 764.0 | 12.7 | 8.8 | 7.9 |
| Family income ^{1,4} | | | | | | | | | |
| Less than \$14,000 | 102.4 | 128.4 | 131.7 | 1,051.2 | 894.8 | 948.7 | 10.3 | 7.0 | 7.2 |
| \$14,000–\$24,999 | 116.4 | 116.9 | 94.4 | 1,213.9 | 863.0 | 673.7 | 10.4 | 7.4 | 7.1 |
| \$25,000–\$34,999 | 110.7 | 89.5 | 79.1 | 939.8 | 584.7 | 532.2 | 8.5 | 6.5 | 6.7 |
| \$35,000–\$49,999 | 109.2 | 100.7 | 71.8 | 882.6 | 686.3 | 387.3 | 8.1 | 6.8 | 5.4 |
| \$50,000 or more | 110.7 | 77.6 | 64.0 | 918.9 | 430.2 | 366.7 | 8.3 | 5.5 | 5.7 |
| Geographic region ¹ | | | | | | | | | |
| Northeast | 98.5 | 87.9 | 79.5 | 993.8 | 674.6 | 626.8 | 10.1 | 7.7 | 7.9 |
| Midwest | 109.2 | 100.2 | 92.9 | 944.9 | 706.9 | 577.0 | 8.7 | 7.1 | 6.2 |
| South | 117.8 | 115.0 | 103.4 | 968.0 | 762.9 | 670.3 | 8.2 | 6.6 | 6.5 |
| West | 110.5 | 78.8 | 69.4 | 985.9 | 522.9 | 414.2 | 8.9 | 6.6 | 6.0 |
| Location of residence ¹ | | | | | | | | | |
| Within MSA | 107.5 | 95.0 | 84.5 | 1,015.4 | 678.1 | 570.4 | 9.4 | 7.1 | 6.8 |
| Outside MSA | 113.3 | 108.8 | 103.7 | 871.9 | 705.6 | 650.6 | 7.7 | 6.5 | 6.3 |

¹Age adjusted.

²Includes all other races not shown separately and unknown family income.

³1964 data include all other races.

⁴Family income categories for 1991. Income categories in 1964 are: less than \$2,000; \$2,000–\$3,999; \$4,000–\$6,999; \$7,000–\$9,999; and \$10,000 or more; and, in 1986 are: less than \$11,000; \$11,000–\$19,999; \$20,000–\$29,999; \$30,000–\$39,999; and \$40,000 or more.

NOTE: Excludes deliveries.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Interview Statistics: Data from the National Health Interview Survey.

Table 84. Discharges, days of care, and average length of stay in nonfederal short-stay hospitals, according to selected characteristics: United States, selected years 1980–91

[Data are based on a sample of hospital records]

| Characteristic | 1980 ¹ | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 ² | 1989 ² | 1990 ² | 1991 ² |
|-----------------------------------|-------------------|---------|---------|---------|---------|---------|---------|-------------------|-------------------|-------------------|-------------------|
| Discharges per 1,000 population | | | | | | | | | | | |
| Total ³ | 159.1 | 158.5 | 157.1 | 148.2 | 138.0 | 132.8 | 127.9 | 117.8 | 115.5 | 113.1 | 113.6 |
| Sex ³ | | | | | | | | | | | |
| Male | 140.1 | 140.5 | 139.9 | 131.8 | 123.5 | 119.8 | 115.0 | 105.8 | 103.9 | 99.6 | 101.3 |
| Female. | 178.1 | 176.5 | 174.4 | 164.7 | 152.7 | 146.2 | 141.2 | 130.2 | 127.4 | 126.9 | 126.5 |
| Age | | | | | | | | | | | |
| Under 15 years. | 71.6 | 71.2 | 70.8 | 62.0 | 57.2 | 53.5 | 51.3 | 49.2 | 48.2 | 43.9 | 45.3 |
| 15–44 years | 150.2 | 145.0 | 140.3 | 132.2 | 125.1 | 118.9 | 115.1 | 104.0 | 102.8 | 101.7 | 99.3 |
| 45–64 years | 194.8 | 195.5 | 192.2 | 183.3 | 169.5 | 162.2 | 156.9 | 140.5 | 135.0 | 133.1 | 132.2 |
| 65 years and over | 383.7 | 398.8 | 412.7 | 400.4 | 368.3 | 367.3 | 350.5 | 334.1 | 330.2 | 327.1 | 340.3 |
| 65–74 years | 315.9 | 324.2 | 334.2 | 319.6 | 294.9 | 296.8 | 280.9 | 262.8 | 257.3 | 253.9 | 264.2 |
| 75 years and over | 489.1 | 511.4 | 529.3 | 520.1 | 476.5 | 470.5 | 451.6 | 436.5 | 433.6 | 430.0 | 443.5 |
| Geographic region ³ | | | | | | | | | | | |
| Northeast | 148.4 | 145.9 | 144.2 | 135.1 | 129.7 | 124.1 | 118.9 | 126.5 | 125.1 | 121.5 | 126.7 |
| Midwest | 176.4 | 176.0 | 167.9 | 156.7 | 143.5 | 139.8 | 135.3 | 120.2 | 116.8 | 114.7 | 110.3 |
| South | 166.2 | 165.2 | 167.7 | 159.5 | 143.4 | 136.3 | 127.9 | 118.9 | 119.0 | 119.1 | 119.4 |
| West | 138.0 | 138.2 | 139.6 | 132.3 | 131.0 | 127.8 | 128.6 | 103.6 | 98.3 | 92.6 | 94.7 |
| Days of care per 1,000 population | | | | | | | | | | | |
| Total ³ | 1,136.5 | 1,101.7 | 1,068.8 | 960.1 | 877.1 | 833.1 | 808.7 | 754.8 | 732.2 | 709.5 | 710.0 |
| Sex ³ | | | | | | | | | | | |
| Male | 1,072.6 | 1,047.6 | 1,025.7 | 917.6 | 841.2 | 803.4 | 789.2 | 739.6 | 720.8 | 681.0 | 696.1 |
| Female. | 1,201.7 | 1,157.7 | 1,115.7 | 1,005.8 | 914.7 | 865.0 | 831.1 | 772.6 | 746.6 | 738.7 | 727.5 |
| Age | | | | | | | | | | | |
| Under 15 years. | 315.8 | 326.4 | 323.4 | 277.7 | 260.8 | 244.7 | 240.6 | 245.3 | 234.3 | 212.4 | 218.3 |
| 15–44 years | 787.0 | 742.0 | 707.5 | 647.3 | 603.6 | 575.7 | 556.9 | 493.1 | 481.1 | 466.2 | 461.8 |
| 45–64 years | 1,597.6 | 1,536.7 | 1,460.6 | 1,316.8 | 1,192.8 | 1,101.4 | 1,068.6 | 955.3 | 903.7 | 898.2 | 858.5 |
| 65 years and over | 4,098.3 | 4,026.2 | 4,004.3 | 3,574.8 | 3,215.1 | 3,120.7 | 3,029.9 | 2,970.0 | 2,930.4 | 2,834.6 | 2,927.0 |
| 65–74 years | 3,147.6 | 3,101.1 | 3,069.5 | 2,711.0 | 2,417.8 | 2,363.8 | 2,294.4 | 2,214.8 | 2,115.5 | 2,026.3 | 2,130.8 |
| 75 years and over | 5,576.5 | 5,423.5 | 5,392.7 | 4,855.5 | 4,389.4 | 4,227.9 | 4,097.8 | 4,054.3 | 4,087.4 | 3,972.2 | 4,007.2 |
| Geographic region ³ | | | | | | | | | | | |
| Northeast | 1,217.3 | 1,149.8 | 1,115.6 | 1,012.3 | 963.1 | 877.6 | 847.1 | 928.7 | 918.1 | 887.2 | 887.5 |
| Midwest | 1,309.4 | 1,283.0 | 1,184.4 | 1,059.9 | 955.7 | 914.2 | 885.3 | 749.3 | 727.7 | 715.7 | 695.4 |
| South | 1,114.5 | 1,083.3 | 1,087.1 | 962.9 | 851.4 | 817.6 | 781.5 | 729.0 | 731.5 | 707.2 | 726.6 |
| West | 844.6 | 825.7 | 821.9 | 756.5 | 717.9 | 703.0 | 712.5 | 606.7 | 537.0 | 513.3 | 513.1 |
| Average length of stay in days | | | | | | | | | | | |
| Total ³ | 7.1 | 7.0 | 6.8 | 6.5 | 6.4 | 6.3 | 6.3 | 6.4 | 6.3 | 6.3 | 6.3 |
| Sex ³ | | | | | | | | | | | |
| Male | 7.7 | 7.5 | 7.3 | 7.0 | 6.8 | 6.7 | 6.9 | 7.0 | 6.9 | 6.8 | 6.9 |
| Female. | 6.7 | 6.6 | 6.4 | 6.1 | 6.0 | 5.9 | 5.9 | 5.9 | 5.9 | 5.8 | 5.8 |
| Age | | | | | | | | | | | |
| Under 15 years. | 4.4 | 4.6 | 4.6 | 4.5 | 4.6 | 4.6 | 4.7 | 5.0 | 4.9 | 4.8 | 4.8 |
| 15–44 years | 5.2 | 5.1 | 5.0 | 4.9 | 4.8 | 4.8 | 4.8 | 4.7 | 4.7 | 4.6 | 4.7 |
| 45–64 years | 8.2 | 7.9 | 7.6 | 7.2 | 7.0 | 6.8 | 6.8 | 6.8 | 6.7 | 6.7 | 6.5 |
| 65 years and over | 10.7 | 10.1 | 9.7 | 8.9 | 8.7 | 8.5 | 8.6 | 8.9 | 8.9 | 8.7 | 8.6 |
| 65–74 years | 10.0 | 9.6 | 9.2 | 8.5 | 8.2 | 8.0 | 8.2 | 8.4 | 8.2 | 8.0 | 8.1 |
| 75 years and over | 11.4 | 10.6 | 10.2 | 9.3 | 9.2 | 9.0 | 9.1 | 9.3 | 9.4 | 9.2 | 9.0 |
| Geographic region ³ | | | | | | | | | | | |
| Northeast | 8.2 | 7.9 | 7.7 | 7.5 | 7.4 | 7.1 | 7.1 | 7.3 | 7.3 | 7.3 | 7.0 |
| Midwest | 7.4 | 7.3 | 7.1 | 6.8 | 6.7 | 6.5 | 6.5 | 6.2 | 6.2 | 6.2 | 6.3 |
| South | 6.7 | 6.6 | 6.5 | 6.0 | 5.9 | 6.0 | 6.1 | 6.1 | 6.1 | 5.9 | 6.1 |
| West | 6.1 | 6.0 | 5.9 | 5.7 | 5.5 | 5.5 | 5.5 | 5.9 | 5.5 | 5.5 | 5.4 |

¹Geographic data for 1980 are based on the civilian population as of April 1, 1980.

²Comparisons of data from 1988 through 1991 with data from earlier years should be made with caution as estimates of change may reflect improvements in the design (see Appendix I) rather than true changes in hospital use.

³Age adjusted.

NOTES: Excludes newborn infants. Rates are based on the civilian population as of July 1.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Care Statistics: Data from the National Hospital Discharge Survey.

Table 85. Discharges, days of care, and average length of stay in nonfederal short-stay hospitals for discharges with the diagnosis of human immunodeficiency virus (HIV) and for all discharges: United States, 1984–91

[Data are based on a sample of hospital records]

| Type of discharge, sex, age, and year | Discharges | | Days of care | | |
|---|---------------------------|-----------------------------------|---------------------------|-----------------------------------|--------------------------------------|
| | Number in thousands | Number per 1,000 population | Number in thousands | Number per 1,000 population | Average length of stay in days |
| Discharges with diagnosis of HIV | | | | | |
| Total: | | | | | |
| 1984 ¹ | 10 | 0.04 | 123 | 0.52 | 12.1 |
| 1985 ¹ | 23 | 0.10 | 387 | 1.63 | 17.1 |
| 1986..... | 44 | 0.18 | 714 | 2.98 | 16.4 |
| 1987..... | 67 | 0.28 | 936 | 3.87 | 14.1 |
| 1988 ² | 95 | 0.39 | 1,277 | 5.23 | 13.4 |
| 1989 ² | 140 | 0.57 | 1,731 | 7.02 | 12.4 |
| 1990 ² | 146 | 0.59 | 2,188 | 8.77 | 14.9 |
| 1991 ² | 165 | 0.66 | 2,108 | 8.41 | 12.8 |
| Male, 20–49 years: | | | | | |
| 1984 ¹ | *9 | *0.17 | *114 | *2.26 | *13.2 |
| 1985 ¹ | 21 | 0.41 | 355 | 6.90 | 16.8 |
| 1986..... | 35 | 0.67 | 573 | 10.96 | 16.4 |
| 1987..... | 51 | 0.97 | 724 | 13.64 | 14.1 |
| 1988 ² | 73 | 1.36 | 914 | 16.97 | 12.5 |
| 1989 ² | 102 | 1.87 | 1,235 | 22.64 | 12.1 |
| 1990 ² | 102 | 1.84 | 1,645 | 29.71 | 16.2 |
| 1991 ² | 111 | 1.97 | 1,407 | 25.01 | 12.7 |
| Female, 20–49 years: | | | | | |
| 1988..... | 13 | 0.23 | 233 | 4.18 | 18.0 |
| 1989..... | 19 | 0.34 | 201 | 3.56 | 10.6 |
| 1990..... | 27 | 0.47 | 341 | 5.96 | 12.6 |
| 1991..... | 33 | 0.56 | 454 | 7.86 | 14.0 |
| All discharges | | | | | |
| Total: | | | | | |
| 1984..... | 37,162 | 158.5 | 244,652 | 1,043.6 | 6.6 |
| 1985..... | 35,056 | 147.9 | 226,217 | 954.4 | 6.5 |
| 1986..... | 34,256 | 143.1 | 218,496 | 912.8 | 6.4 |
| 1987..... | 33,387 | 138.2 | 214,942 | 889.4 | 6.4 |
| 1988 ² | 31,146 | 127.6 | 203,678 | 834.3 | 6.5 |
| 1989 ² | 30,947 | 125.5 | 200,827 | 814.5 | 6.5 |
| 1990 ² | 30,788 | 123.5 | 197,422 | 791.7 | 6.4 |
| 1991 ² | 31,098 | 124.1 | 199,099 | 794.6 | 6.4 |
| Male, 20–49 years: | | | | | |
| 1984..... | 4,497 | 89.5 | 27,725 | 551.5 | 6.2 |
| 1985..... | 4,393 | 85.4 | 27,117 | 527.4 | 6.2 |
| 1986..... | 4,300 | 82.2 | 26,488 | 506.4 | 6.2 |
| 1987..... | 4,075 | 76.8 | 26,295 | 495.3 | 6.5 |
| 1988 ² | 3,670 | 68.2 | 22,697 | 421.6 | 6.2 |
| 1989 ² | 3,676 | 67.4 | 22,967 | 421.0 | 6.2 |
| 1990 ² | 3,649 | 65.9 | 22,539 | 407.0 | 6.2 |
| 1991 ² | 3,547 | 63.1 | 22,258 | 395.7 | 6.3 |
| Female, 20–49 years: | | | | | |
| 1988..... | 8,169 | 146.5 | 34,800 | 623.9 | 4.3 |
| 1989..... | 8,196 | 145.2 | 35,007 | 620.0 | 4.3 |
| 1990..... | 8,228 | 143.8 | 34,473 | 602.3 | 4.2 |
| 1991..... | 8,146 | 141.1 | 34,127 | 591.0 | 4.2 |

¹During these years, only data for AIDS (ICD-9-CM 279.19) were reported.

²Comparisons of data from 1988 through 1991 with data from earlier years should be made with caution as estimates of change may reflect improvements in the design (see Appendix I) rather than true changes in hospital use.

*Statistics based on 5,000–9,000 estimated discharges are to be used with caution.

NOTES: Excludes newborn infants. Rates are based on the civilian population as of July 1. Data for years 1986–91 are tabulated for discharges with the diagnosis human immunodeficiency virus (HIV) (ICD-9-CM 042–044, 279.19, and 795.8) and differ from previous editions of Health, United States in which data for years 1986–89 were tabulated for discharges with the diagnosis acquired immunodeficiency syndrome (AIDS) (ICD-9-CM 042.0–042.2, 042.9, 279.19). Data for years 1984–85 are tabulated for discharges with diagnosis ICD-9-CM 279.19, as in previous editions.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Care Statistics: Data from the National Hospital Discharge Survey; Utilization of short-stay hospitals by patients with AIDS: United States, 1984–1986, by E. J. Graves. Advance Data From Vital and Health Statistics. No. 156. DHEW Pub. No. (PHS) 88-1250. Public Health Service. Hyattsville, Md., 1988; Unpublished data.

Table 86 (page 1 of 2). Rates of discharges and days of care in nonfederal short-stay hospitals, according to sex, age, and selected first-listed diagnosis: United States, 1980, 1985, 1990, and 1991

[Data are based on a sample of hospital records]

| Sex, age, and first-listed diagnosis | Discharges | | | | Days of care | | | |
|--|-----------------------------|-------|-------------------|-------------------|--------------|---------|-------------------|-------------------|
| | 1980 | 1985 | 1990 ¹ | 1991 ¹ | 1980 | 1985 | 1990 ¹ | 1991 ¹ |
| Both sexes | Number per 1,000 population | | | | | | | |
| Total ^{2,3} | 159.1 | 138.0 | 113.1 | 113.6 | 1,136.5 | 877.1 | 709.5 | 710.0 |
| Females with delivery | 14.7 | 14.1 | 14.2 | 13.9 | 55.5 | 46.1 | 39.5 | 38.4 |
| Diseases of heart | 13.1 | 13.7 | 12.5 | 12.9 | 123.5 | 98.4 | 84.5 | 87.2 |
| Malignant neoplasms | 7.6 | 7.4 | 5.7 | 5.7 | 90.5 | 65.2 | 52.6 | 51.2 |
| Pneumonia, all forms | 3.5 | 3.6 | 4.0 | 4.0 | 27.7 | 26.5 | 30.8 | 31.1 |
| Fracture, all sites | 4.9 | 4.4 | 3.7 | 3.7 | 51.2 | 37.1 | 28.9 | 30.1 |
| Male | | | | | | | | |
| All ages ^{2,3} | 140.1 | 123.5 | 99.6 | 101.3 | 1,072.6 | 841.2 | 681.0 | 696.1 |
| Diseases of heart | 15.9 | 16.8 | 15.4 | 16.0 | 145.0 | 116.9 | 102.6 | 106.3 |
| Malignant neoplasms | 8.2 | 7.8 | 5.9 | 6.3 | 98.7 | 71.1 | 55.8 | 60.2 |
| Pneumonia, all forms | 4.1 | 3.9 | 4.4 | 4.5 | 32.5 | 29.8 | 34.7 | 34.6 |
| Fracture, all sites | 5.2 | 4.7 | 3.7 | 3.8 | 46.9 | 35.3 | 24.2 | 27.7 |
| Cerebrovascular diseases | 3.5 | 3.6 | 2.8 | 2.9 | 41.9 | 36.0 | 26.2 | 26.3 |
| Inguinal hernia | 4.3 | 3.0 | 1.2 | 1.0 | 20.0 | 9.3 | 2.7 | 2.4 |
| Under 15 years ³ | 78.7 | 63.8 | 48.5 | 50.8 | 341.5 | 287.5 | 230.7 | 247.3 |
| Pneumonia, all forms | 5.2 | 4.3 | 4.3 | 4.2 | 25.2 | 18.1 | 18.9 | 17.7 |
| Bronchitis, emphysema, and asthma | 4.0 | 4.1 | 4.1 | 4.5 | 16.3 | 13.7 | 11.6 | 13.7 |
| Acute respiratory infection | 5.9 | 5.2 | 3.9 | 4.9 | 22.0 | 17.2 | 12.7 | 14.7 |
| Congenital anomalies | 4.0 | 3.8 | 2.6 | 2.7 | 22.2 | 20.5 | 14.8 | 16.6 |
| Noninfectious enteritis and colitis | 4.0 | 2.8 | 1.9 | 1.8 | 16.1 | 8.3 | 5.2 | 5.5 |
| Otitis media and eustachian tube disorders | 4.5 | 2.2 | 1.5 | 1.3 | 11.3 | 4.7 | 3.6 | 3.6 |
| Chronic disease of tonsils and adenoids | 5.4 | 3.5 | 1.0 | 0.9 | 9.2 | 5.1 | 1.3 | 1.1 |
| 15–44 years ³ | 91.5 | 75.4 | 58.0 | 55.9 | 581.0 | 458.9 | 355.4 | 356.5 |
| Fracture, all sites | 6.3 | 5.3 | 4.2 | 4.0 | 50.1 | 34.7 | 23.0 | 24.2 |
| Psychoses | 3.0 | 3.7 | 3.8 | 4.3 | 39.2 | 47.4 | 52.4 | 55.1 |
| Diseases of heart | 2.9 | 3.0 | 2.9 | 2.5 | 21.7 | 16.6 | 15.5 | 13.9 |
| Intervertebral disc disorders | 2.3 | 2.9 | 2.4 | 2.3 | 20.7 | 18.7 | 10.0 | 9.5 |
| Lacerations and open wounds | 3.4 | 2.6 | 2.3 | 1.8 | 17.9 | 11.0 | 9.6 | 6.4 |
| Alcohol dependence syndrome | 3.5 | 3.5 | 2.1 | 2.0 | 33.4 | 38.8 | 20.1 | 19.0 |
| 45–64 years ³ | 195.4 | 176.2 | 138.3 | 137.5 | 1,590.3 | 1,219.9 | 930.3 | 897.4 |
| Diseases of heart | 33.7 | 36.6 | 31.2 | 31.9 | 288.1 | 237.4 | 182.3 | 198.9 |
| Malignant neoplasms | 14.4 | 13.1 | 10.5 | 10.7 | 167.2 | 119.8 | 97.9 | 90.7 |
| Cerebrovascular diseases | 4.7 | 5.0 | 4.0 | 3.8 | 49.6 | 50.7 | 40.1 | 29.8 |
| Intervertebral disc disorders | 3.7 | 4.6 | 3.6 | 3.0 | 34.5 | 32.8 | 18.3 | 14.0 |
| Psychoses | 2.6 | 3.2 | 3.4 | 3.5 | 31.6 | 42.4 | 41.7 | 44.4 |
| Alcohol dependence syndrome | 6.4 | 4.5 | 2.3 | 2.2 | 67.8 | 43.4 | 21.5 | 16.8 |
| Inguinal hernia | 6.9 | 5.1 | 1.9 | 1.7 | 36.5 | 15.3 | 4.3 | 3.0 |
| 65 years and over ³ | 411.8 | 393.2 | 346.2 | 368.1 | 4,244.0 | 3,315.0 | 2,882.8 | 3,056.5 |
| Diseases of heart | 78.5 | 82.6 | 80.2 | 86.5 | 786.3 | 626.9 | 602.4 | 611.2 |
| Malignant neoplasms | 46.2 | 44.4 | 31.8 | 35.6 | 587.9 | 418.4 | 316.0 | 369.9 |
| Pneumonia, all forms | 15.0 | 17.3 | 20.4 | 22.4 | 166.1 | 172.6 | 204.7 | 215.4 |
| Cerebrovascular diseases | 24.4 | 25.1 | 19.1 | 20.6 | 301.2 | 249.7 | 176.4 | 195.5 |
| Hyperplasia of prostate | 18.1 | 15.5 | 15.1 | 14.1 | 176.7 | 103.5 | 78.6 | 67.0 |
| Female | | | | | | | | |
| All ages ^{2,3} | 178.1 | 152.7 | 126.9 | 126.5 | 1,201.7 | 914.7 | 738.7 | 727.5 |
| Delivery | 29.0 | 27.7 | 28.0 | 27.5 | 109.4 | 91.0 | 78.1 | 76.3 |
| Diseases of heart | 10.7 | 11.0 | 10.0 | 10.3 | 105.1 | 82.5 | 69.4 | 71.4 |
| Malignant neoplasms | 7.3 | 7.3 | 5.7 | 5.4 | 85.8 | 61.7 | 51.0 | 44.9 |
| Pneumonia, all forms | 3.0 | 3.2 | 3.6 | 3.7 | 24.0 | 24.3 | 27.9 | 28.4 |
| Fracture, all sites | 4.4 | 4.0 | 3.4 | 3.4 | 52.1 | 36.6 | 31.4 | 30.3 |
| Pregnancy with abortive outcome | 4.1 | 2.8 | 1.5 | 1.2 | 8.7 | 5.9 | 3.1 | 3.0 |
| Under 15 years ³ | 64.2 | 50.2 | 39.2 | 39.5 | 288.9 | 232.9 | 193.1 | 187.9 |
| Pneumonia, all forms | 3.6 | 3.6 | 3.4 | 3.6 | 17.7 | 16.4 | 15.8 | 14.3 |
| Acute respiratory infection | 4.6 | 3.6 | 2.8 | 3.0 | 16.0 | 11.3 | 9.4 | 9.8 |
| Bronchitis, emphysema, and asthma | 2.5 | 2.6 | 2.5 | 2.6 | 9.6 | 9.0 | 7.8 | 7.4 |
| Congenital anomalies | 3.2 | 1.9 | 1.7 | 1.8 | 19.4 | 11.3 | 9.9 | 13.9 |
| Noninfectious enteritis and colitis | 3.7 | 2.3 | 1.6 | 1.5 | 16.8 | 6.8 | 4.7 | 5.0 |
| Chronic disease of tonsils and adenoids | 6.4 | 3.7 | 1.4 | 1.0 | 11.2 | 6.0 | 1.8 | 1.1 |

See footnotes at end of table.

Table 86 (page 2 of 2). Rates of discharges and days of care in nonfederal short-stay hospitals, according to sex, age, and selected first-listed diagnosis: United States, 1980, 1985, 1990, and 1991

[Data are based on a sample of hospital records]

| Sex, age, and first-listed diagnosis | Discharges | | | | Days of care | | | |
|--|-----------------------------|-------|-------------------|-------------------|--------------|---------|-------------------|-------------------|
| | 1980 | 1985 | 1990 ¹ | 1991 ¹ | 1980 | 1985 | 1990 ¹ | 1991 ¹ |
| Female – Con. | Number per 1,000 population | | | | | | | |
| 15–44 years ³ | 206.9 | 173.4 | 144.5 | 142.1 | 986.4 | 744.3 | 574.7 | 565.6 |
| Delivery | 70.7 | 67.8 | 68.4 | 67.2 | 264.5 | 222.4 | 190.8 | 186.5 |
| Psychoses | 2.4 | 3.4 | 3.9 | 4.0 | 36.7 | 52.3 | 56.9 | 54.0 |
| Pregnancy with abortive outcome | 9.9 | 6.7 | 3.5 | 3.0 | 21.2 | 14.4 | 7.4 | 7.3 |
| Cholelithiasis | 2.6 | 2.4 | 2.9 | 2.7 | 19.5 | 14.4 | 11.9 | 13.0 |
| Benign neoplasms | 4.8 | 3.4 | 2.8 | 2.9 | 25.7 | 17.2 | 11.2 | 11.0 |
| Inflammatory disease of female pelvic organs | 5.1 | 3.7 | 2.2 | 2.0 | 25.7 | 17.7 | 9.0 | 7.8 |
| Disorders of menstruation | 6.6 | 2.6 | 1.2 | 1.3 | 21.6 | 9.7 | 3.9 | 4.3 |
| 45–64 years ³ | 194.3 | 163.4 | 128.2 | 127.2 | 1,604.1 | 1,168.1 | 868.5 | 822.4 |
| Diseases of heart | 17.8 | 17.9 | 16.3 | 15.6 | 152.9 | 120.5 | 98.9 | 98.3 |
| Malignant neoplasms | 16.6 | 15.6 | 12.7 | 10.7 | 190.8 | 129.6 | 106.3 | 85.4 |
| Cholelithiasis | 4.7 | 4.4 | 4.7 | 5.2 | 42.9 | 30.9 | 26.5 | 20.5 |
| Benign neoplasms | 6.7 | 5.1 | 4.4 | 4.1 | 44.8 | 32.0 | 21.6 | 18.9 |
| Psychoses | 3.1 | 4.1 | 4.2 | 4.5 | 50.6 | 70.5 | 62.0 | 62.9 |
| Diabetes | 6.3 | 3.8 | 2.9 | 2.9 | 63.5 | 31.4 | 25.3 | 22.6 |
| 65 years and over ³ | 364.7 | 351.4 | 313.8 | 321.6 | 3,999.8 | 3,147.1 | 2,801.4 | 2,839.6 |
| Diseases of heart | 64.8 | 68.1 | 62.3 | 66.1 | 701.1 | 551.3 | 472.9 | 480.0 |
| Malignant neoplasms | 28.5 | 28.1 | 21.5 | 22.6 | 383.8 | 280.6 | 219.1 | 221.8 |
| Cerebrovascular diseases | 21.6 | 23.3 | 19.4 | 19.9 | 287.9 | 249.3 | 187.4 | 196.0 |
| Fracture, all sites | 19.2 | 19.3 | 18.7 | 18.2 | 309.5 | 232.5 | 211.0 | 208.5 |
| Pneumonia, all forms | 9.7 | 11.8 | 15.1 | 16.0 | 109.2 | 116.9 | 157.8 | 171.3 |
| Eye diseases and conditions | 16.4 | 8.2 | 3.1 | 4.0 | 67.3 | 21.0 | 6.3 | 7.2 |

¹Comparisons of data from 1988 through 1991 with data from earlier years should be made with caution as estimates of change may reflect improvements in the design (see Appendix I) rather than true changes in hospital use.

²Age adjusted.

³Includes discharges with first-listed diagnoses not shown in table.

NOTES: Excludes newborn infants. Rates are based on the civilian population as of July 1. In each sex and age group, data are shown for diagnoses with the five highest discharge rates in 1980 and 1990. Diagnostic categories are based on the International Classification of Diseases, 9th Revision, Clinical Modification. For a listing of the code numbers, see Appendix II, table VII.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Care Statistics: Data from the National Hospital Discharge Survey.

Table 87 (page 1 of 2). Discharges and average length of stay in nonfederal short-stay hospitals, according to sex, age, and selected first-listed diagnosis: United States, 1980, 1985, 1990, and 1991

[Data are based on a sample of hospital records]

| Sex, age, and first-listed diagnosis | Discharges | | | | Average length of stay | | | |
|---|---------------------|--------|-------------------|-------------------|------------------------|------|-------------------|-------------------|
| | 1980 | 1985 | 1990 ¹ | 1991 ¹ | 1980 | 1985 | 1990 ¹ | 1991 ¹ |
| Both sexes | Number in thousands | | | | Number of days | | | |
| Total ² | 37,832 | 35,056 | 30,788 | 31,098 | 7.3 | 6.5 | 6.4 | 6.4 |
| Females with delivery..... | 3,762 | 3,854 | 4,025 | 3,973 | 3.8 | 3.3 | 2.8 | 2.8 |
| Diseases of heart..... | 3,201 | 3,584 | 3,556 | 3,704 | 9.5 | 7.3 | 6.9 | 6.8 |
| Malignant neoplasms..... | 1,829 | 1,911 | 1,571 | 1,594 | 12.0 | 8.9 | 9.4 | 9.2 |
| Pneumonia, all forms..... | 782 | 854 | 1,052 | 1,088 | 8.3 | 7.9 | 8.3 | 8.2 |
| Fracture, all sites..... | 1,163 | 1,129 | 1,017 | 1,034 | 10.8 | 8.7 | 8.3 | 8.4 |
| Male | | | | | | | | |
| All ages ² | 15,145 | 14,160 | 12,280 | 12,478 | 7.7 | 6.9 | 6.9 | 7.0 |
| Diseases of heart..... | 1,688 | 1,910 | 1,913 | 1,977 | 9.1 | 7.0 | 6.7 | 6.7 |
| Malignant neoplasms..... | 875 | 892 | 730 | 781 | 12.0 | 9.1 | 9.5 | 9.7 |
| Pneumonia, all forms..... | 414 | 433 | 530 | 545 | 8.2 | 7.8 | 8.2 | 7.9 |
| Fracture, all sites..... | 582 | 550 | 466 | 481 | 9.0 | 7.7 | 6.7 | 7.3 |
| Cerebrovascular diseases..... | 371 | 416 | 359 | 370 | 12.1 | 10.0 | 9.2 | 9.1 |
| Inguinal hernia..... | 458 | 343 | 149 | 120 | 4.7 | 3.1 | 2.2 | 2.4 |
| Under 15 years ² | 2,063 | 1,698 | 1,362 | 1,435 | 4.3 | 4.5 | 4.8 | 4.9 |
| Pneumonia, all forms..... | 136 | 115 | 119 | 118 | 4.9 | 4.2 | 4.4 | 4.2 |
| Bronchitis, emphysema, and asthma..... | 105 | 110 | 115 | 128 | 4.0 | 3.3 | 2.8 | 3.0 |
| Acute respiratory infection..... | 154 | 138 | 111 | 138 | 3.8 | 3.3 | 3.2 | 3.0 |
| Congenital anomalies..... | 106 | 101 | 74 | 76 | 5.5 | 5.4 | 5.6 | 6.2 |
| Noninfectious enteritis and colitis..... | 106 | 74 | 52 | 50 | 4.0 | 3.0 | 2.8 | 3.1 |
| Otitis media and eustachian tube disorders..... | 118 | 59 | 41 | 38 | 2.5 | 2.1 | 2.5 | 2.7 |
| Chronic disease of tonsils and adenoids..... | 141 | 92 | 29 | 25 | 1.7 | 1.5 | 1.3 | 1.3 |
| 15–44 years ² | 4,687 | 4,153 | 3,330 | 3,248 | 6.3 | 6.1 | 6.1 | 6.4 |
| Fracture, all sites..... | 320 | 290 | 238 | 230 | 8.0 | 6.6 | 5.5 | 6.1 |
| Psychoses..... | 155 | 204 | 220 | 252 | 12.9 | 12.8 | 13.6 | 12.7 |
| Diseases of heart..... | 149 | 165 | 166 | 145 | 7.5 | 5.5 | 5.3 | 5.5 |
| Intervertebral disc disorders..... | 120 | 161 | 138 | 135 | 8.8 | 6.4 | 4.2 | 4.1 |
| Lacerations and open wounds..... | 176 | 143 | 134 | 102 | 5.2 | 4.2 | 4.1 | 3.7 |
| Alcohol dependence syndrome..... | 180 | 195 | 118 | 114 | 9.5 | 11.0 | 9.8 | 9.7 |
| 45–64 years ² | 4,127 | 3,776 | 3,115 | 3,088 | 8.1 | 6.9 | 6.7 | 6.5 |
| Diseases of heart..... | 712 | 784 | 704 | 716 | 8.5 | 6.5 | 5.8 | 6.2 |
| Malignant neoplasms..... | 304 | 281 | 236 | 239 | 11.6 | 9.1 | 9.3 | 8.5 |
| Cerebrovascular diseases..... | 99 | 107 | 91 | 86 | 10.6 | 10.2 | 10.0 | 7.8 |
| Intervertebral disc disorders..... | 78 | 98 | 82 | 67 | 9.4 | 7.2 | 5.0 | 4.7 |
| Psychoses..... | 55 | 69 | 76 | 80 | 12.1 | 13.1 | 12.4 | 12.5 |
| Alcohol dependence syndrome..... | 134 | 97 | 51 | 49 | 10.7 | 9.6 | 9.5 | 7.8 |
| Inguinal hernia..... | 146 | 110 | 42 | 38 | 5.3 | 3.0 | 2.3 | 1.7 |
| 65 years and over ² | 4,268 | 4,533 | 4,472 | 4,708 | 10.3 | 8.4 | 8.3 | 8.3 |
| Diseases of heart..... | 814 | 953 | 1,036 | 1,107 | 10.0 | 7.6 | 7.5 | 7.1 |
| Malignant neoplasms..... | 479 | 512 | 411 | 455 | 12.7 | 9.4 | 9.9 | 10.4 |
| Pneumonia, all forms..... | 156 | 199 | 264 | 286 | 11.1 | 10.0 | 10.0 | 9.6 |
| Cerebrovascular diseases..... | 253 | 289 | 247 | 263 | 12.3 | 9.9 | 9.2 | 9.5 |
| Hyperplasia of prostate..... | 188 | 179 | 195 | 180 | 9.8 | 6.7 | 5.2 | 4.8 |
| Female | | | | | | | | |
| All ages ² | 22,686 | 20,896 | 18,508 | 18,620 | 7.0 | 6.2 | 6.1 | 6.0 |
| Delivery..... | 3,762 | 3,854 | 4,025 | 3,973 | 3.8 | 3.3 | 2.8 | 2.8 |
| Diseases of heart..... | 1,513 | 1,674 | 1,643 | 1,727 | 10.0 | 7.6 | 7.1 | 7.0 |
| Malignant neoplasms..... | 954 | 1,019 | 841 | 812 | 12.0 | 8.7 | 9.2 | 8.7 |
| Pneumonia, all forms..... | 368 | 421 | 522 | 543 | 8.4 | 8.1 | 8.4 | 8.5 |
| Fracture, all sites..... | 580 | 579 | 551 | 553 | 12.6 | 9.8 | 9.7 | 9.4 |
| Pregnancy with abortive outcome..... | 531 | 382 | 208 | 180 | 2.1 | 2.1 | 2.1 | 2.4 |

See footnotes at end of table.

Table 87 (page 2 of 2). Discharges and average length of stay in nonfederal short-stay hospitals, according to sex, age, and selected first-listed diagnosis: United States, 1980, 1985, 1990, and 1991

[Data are based on a sample of hospital records]

| Sex, age, and first-listed diagnosis | Discharges | | | | Average length of stay | | | |
|--|---------------------|-------|-------------------|-------------------|------------------------|------|-------------------|-------------------|
| | 1980 | 1985 | 1990 ¹ | 1991 ¹ | 1980 | 1985 | 1990 ¹ | 1991 ¹ |
| Female—Con. | Number in thousands | | | | Number of days | | | |
| Under 15 years ² | 1,609 | 1,274 | 1,049 | 1,064 | 4.5 | 4.6 | 4.9 | 4.8 |
| Pneumonia, all forms | 91 | 91 | 92 | 96 | 4.9 | 4.6 | 4.6 | 4.0 |
| Acute respiratory infection | 115 | 91 | 75 | 82 | 3.5 | 3.2 | 3.4 | 3.2 |
| Bronchitis, emphysema, and asthma | 63 | 65 | 68 | 69 | 3.8 | 3.5 | 3.1 | 2.9 |
| Congenital anomalies | 80 | 49 | 46 | 48 | 6.1 | 5.9 | 5.8 | 7.8 |
| Noninfectious enteritis and colitis | 92 | 59 | 43 | 41 | 4.6 | 2.9 | 3.0 | 3.3 |
| Chronic disease of tonsils and adenoids | 160 | 94 | 38 | 28 | 1.8 | 1.6 | 1.2 | 1.1 |
| 15–44 years ² | 10,949 | 9,813 | 8,469 | 8,372 | 4.8 | 4.3 | 4.0 | 4.0 |
| Delivery | 3,741 | 3,838 | 4,008 | 3,956 | 3.7 | 3.3 | 2.8 | 2.8 |
| Psychoses | 129 | 192 | 228 | 236 | 15.1 | 15.4 | 14.6 | 13.5 |
| Pregnancy with abortive outcome | 525 | 378 | 205 | 178 | 2.1 | 2.2 | 2.1 | 2.4 |
| Cholelithiasis | 138 | 133 | 169 | 159 | 7.5 | 6.1 | 4.1 | 4.8 |
| Benign neoplasms | 253 | 194 | 163 | 173 | 5.4 | 5.0 | 4.0 | 3.8 |
| Inflammatory disease of female pelvic organs | 268 | 210 | 130 | 115 | 5.1 | 4.8 | 4.1 | 4.0 |
| Disorders of menstruation | 347 | 148 | 70 | 74 | 3.3 | 3.7 | 3.3 | 3.4 |
| 45–64 years ² | 4,533 | 3,834 | 3,129 | 3,085 | 8.3 | 7.1 | 6.8 | 6.5 |
| Diseases of heart | 415 | 420 | 397 | 379 | 8.6 | 6.7 | 6.1 | 6.3 |
| Malignant neoplasms | 387 | 367 | 309 | 260 | 11.5 | 8.3 | 8.4 | 8.0 |
| Cholelithiasis | 109 | 103 | 114 | 127 | 9.2 | 7.1 | 5.7 | 3.9 |
| Benign neoplasms | 156 | 120 | 107 | 100 | 6.7 | 6.3 | 4.9 | 4.6 |
| Psychoses | 72 | 95 | 103 | 109 | 16.3 | 17.4 | 14.6 | 13.9 |
| Diabetes | 148 | 88 | 70 | 70 | 10.0 | 8.3 | 8.9 | 7.8 |
| 65 years and over ² | 5,596 | 5,975 | 5,861 | 6,098 | 11.0 | 9.0 | 8.9 | 8.8 |
| Diseases of heart | 995 | 1,158 | 1,164 | 1,254 | 10.8 | 8.1 | 7.6 | 7.3 |
| Malignant neoplasms | 437 | 478 | 401 | 428 | 13.5 | 10.0 | 10.2 | 9.8 |
| Cerebrovascular diseases | 331 | 396 | 362 | 377 | 13.3 | 10.7 | 9.7 | 9.9 |
| Fracture, all sites | 295 | 328 | 350 | 346 | 16.1 | 12.1 | 11.3 | 11.4 |
| Pneumonia, all forms | 150 | 201 | 283 | 303 | 11.2 | 9.9 | 10.4 | 10.7 |
| Eye diseases and conditions | 251 | 140 | 58 | 75 | 4.1 | 2.5 | 2.0 | 1.8 |

¹Comparisons of data from 1988 through 1991 with data from earlier years should be made with caution as estimates of change may reflect improvements in the design (see Appendix I) rather than true changes in hospital use.

²Includes discharges with first-listed diagnoses not shown in table.

NOTES: Excludes newborn infants. In each sex and age group, data are shown for diagnoses with the five highest discharge rates in 1980 and 1990. Diagnostic categories are based on the International Classification of Diseases, 9th Revision, Clinical Modification. For a listing of the code numbers, see Appendix II, table VII.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Care Statistics: Data from the National Hospital Discharge Survey.

Table 88 (page 1 of 2). Operations for inpatients discharged from nonfederal short-stay hospitals, according to sex, age, and surgical category: United States, 1980, 1985, 1990, and 1991

[Data are based on a sample of hospital records]

| Sex, age, and surgical category | Operations in thousands | | | | Operations per 1,000 population | | | |
|--|-------------------------|--------|-------------------|-------------------|---------------------------------|-------|-------------------|-------------------|
| | 1980 | 1985 | 1990 ¹ | 1991 ¹ | 1980 | 1985 | 1990 ¹ | 1991 ¹ |
| Male | | | | | | | | |
| All ages ^{2,3,4} | 8,505 | 8,805 | 8,538 | 8,692 | 78.1 | 76.3 | 68.8 | 70.1 |
| Cardiac catheterization | 228 | 439 | 620 | 603 | 2.2 | 3.9 | 5.2 | 5.1 |
| Prostatectomy | 335 | 367 | 364 | 363 | 3.1 | 3.2 | 2.8 | 2.8 |
| Reduction of fracture (excluding skull, nose, and jaw) | 325 | 339 | 300 | 337 | 2.9 | 2.8 | 2.4 | 2.7 |
| Direct heart revascularization (coronary bypass) | 108 | 172 | 286 | 296 | 1.0 | 1.6 | 2.4 | 2.5 |
| Excision or destruction of intervertebral disc and spinal fusion | 118 | 191 | 248 | 258 | 1.1 | 1.6 | 2.0 | 2.0 |
| Repair of inguinal hernia | 483 | 370 | 181 | 155 | 4.6 | 3.3 | 1.5 | 1.3 |
| Operations on muscles, tendons, fascia, and bursa | 210 | 194 | 175 | 175 | 1.9 | 1.7 | 1.4 | 1.4 |
| Under 15 years ^{2,4} | 1,068 | 831 | 598 | 617 | 40.7 | 31.3 | 21.3 | 21.9 |
| Reduction of fracture (excluding skull, nose, and jaw) | 55 | 57 | 42 | 58 | 2.1 | 2.1 | 1.5 | 2.1 |
| Appendectomy, excluding incidental ⁵ | 43 | 41 | 40 | 33 | 1.6 | 1.5 | 1.4 | 1.2 |
| Tonsillectomy, with or without adenoidectomy | 138 | 97 | 33 | 27 | 5.3 | 3.6 | 1.2 | 1.0 |
| Myringotomy | 115 | 53 | 30 | 25 | 4.4 | 2.0 | 1.1 | 0.9 |
| Circumcision | 43 | 31 | 24 | 21 | 1.6 | 1.2 | 0.8 | 0.7 |
| Repair of inguinal hernia | 86 | 46 | 19 | 23 | 3.3 | 1.7 | 0.7 | 0.8 |
| 15–44 years ^{2,4} | 2,900 | 2,717 | 2,257 | 2,241 | 56.6 | 49.4 | 39.3 | 38.6 |
| Reduction of fracture (excluding skull, nose, and jaw) | 188 | 187 | 159 | 167 | 3.7 | 3.4 | 2.8 | 2.9 |
| Excision or destruction of intervertebral disc and spinal fusion | 67 | 119 | 147 | 147 | 1.3 | 2.2 | 2.6 | 2.5 |
| Operations on muscles, tendons, fascia, and bursa | 110 | 100 | 93 | 81 | 2.2 | 1.8 | 1.6 | 1.4 |
| Debridement of wound, infection, or burn | 75 | 75 | 82 | 80 | 1.5 | 1.4 | 1.4 | 1.4 |
| Appendectomy, excluding incidental ⁵ | 85 | 88 | 80 | 82 | 1.7 | 1.6 | 1.4 | 1.4 |
| Repair of inguinal hernia | 127 | 91 | 37 | 28 | 2.5 | 1.7 | 0.7 | 0.5 |
| Excision of semilunar cartilage of knee | 94 | 48 | 25 | 29 | 1.8 | 0.9 | 0.4 | 0.5 |
| 45–64 years ^{2,4} | 2,313 | 2,494 | 2,499 | 2,486 | 109.5 | 116.4 | 110.9 | 110.7 |
| Cardiac catheterization | 129 | 241 | 306 | 296 | 6.1 | 11.3 | 13.6 | 13.2 |
| Direct heart revascularization (coronary bypass) | 72 | 102 | 132 | 135 | 3.4 | 4.8 | 5.9 | 6.0 |
| Excision or destruction of intervertebral disc and spinal fusion | 43 | 60 | 80 | 79 | 2.1 | 2.8 | 3.6 | 3.5 |
| Prostatectomy | 83 | 81 | 80 | 68 | 3.9 | 3.8 | 3.5 | 3.0 |
| Repair of inguinal hernia | 152 | 116 | 50 | 47 | 7.2 | 5.4 | 2.2 | 2.1 |
| Operations on muscles, tendons, fascia, and bursa | 58 | 50 | 44 | 47 | 2.8 | 2.3 | 2.0 | 2.1 |
| 65 years and over ^{2,4} | 2,224 | 2,762 | 3,184 | 3,348 | 214.6 | 239.5 | 246.5 | 261.8 |
| Prostatectomy | 251 | 284 | 284 | 295 | 24.2 | 24.7 | 22.0 | 23.1 |
| Cardiac catheterization | 52 | 126 | 236 | 235 | 5.0 | 10.9 | 18.3 | 18.4 |
| Direct heart revascularization (coronary bypass) | 27 | 57 | 137 | 144 | 2.6 | 5.0 | 10.6 | 11.3 |
| Pacemaker insertion or replacement | 75 | 82 | 100 | 117 | 7.3 | 7.1 | 7.7 | 9.1 |
| Biopsies on the digestive system | 61 | 107 | 76 | 89 | 5.9 | 9.3 | 5.9 | 6.9 |
| Repair of inguinal hernia | 119 | 116 | 74 | 57 | 11.4 | 10.1 | 5.8 | 4.5 |
| Extraction of lens | 124 | 53 | 18 | 20 | 12.0 | 4.6 | 1.4 | 1.6 |
| Female | | | | | | | | |
| All ages ^{2,3,4} | 15,989 | 15,994 | 14,513 | 14,711 | 126.1 | 117.2 | 100.3 | 100.7 |
| Procedures to assist delivery ² | 2,391 | 2,494 | 2,491 | 2,558 | 18.4 | 18.0 | 17.3 | 17.7 |
| Cesarean section ⁶ | 619 | 877 | 945 | 933 | 4.8 | 6.3 | 6.6 | 6.5 |
| Repair of current obstetrical laceration | 355 | 548 | 795 | 795 | 2.8 | 3.9 | 5.5 | 5.5 |
| Hysterectomy | 649 | 670 | 591 | 546 | 5.2 | 5.0 | 4.3 | 3.9 |
| Oophorectomy and salpingo-oophorectomy | 483 | 525 | 476 | 458 | 3.9 | 4.0 | 3.4 | 3.3 |
| Bilateral destruction or occlusion of fallopian tubes | 641 | 466 | 419 | 401 | 4.9 | 3.3 | 2.9 | 2.8 |
| Diagnostic dilation and curettage of uterus | 923 | 349 | 109 | 100 | 7.3 | 2.6 | 0.8 | 0.7 |
| Under 15 years ^{2,4} | 771 | 553 | 413 | 414 | 30.8 | 21.8 | 15.4 | 15.4 |
| Tonsillectomy, with or without adenoidectomy | 156 | 100 | 41 | 27 | 6.2 | 3.9 | 1.5 | 1.0 |
| Appendectomy, excluding incidental ⁵ | 34 | 28 | 26 | 24 | 1.4 | 1.1 | 1.0 | 0.9 |
| Myringotomy | 87 | 36 | 22 | 18 | 3.5 | 1.4 | 0.8 | 0.7 |
| Reduction of fracture (excluding skull, nose, and jaw) | 32 | 33 | 18 | 26 | 1.3 | 1.3 | 0.7 | 1.0 |
| Operations on muscles, tendons, fascia, and bursa | 23 | 11 | 11 | 14 | 0.9 | 0.5 | 0.4 | 0.5 |
| Adenoidectomy without tonsillectomy | 31 | *7 | * | * | 1.2 | *0.3 | * | * |

See footnotes at end of table.

Table 88 (page 2 of 2). Operations for inpatients discharged from nonfederal short-stay hospitals, according to sex, age, and surgical category: United States, 1980, 1985, 1990, and 1991

[Data are based on a sample of hospital records]

| Sex, age, and surgical category | Operations in thousands | | | | Operations per 1,000 population | | | |
|--|-------------------------|-------|-------------------|-------------------|---------------------------------|-------|-------------------|-------------------|
| | 1980 | 1985 | 1990 ¹ | 1991 ¹ | 1980 | 1985 | 1990 ¹ | 1991 ¹ |
| Female—Con. | | | | | | | | |
| 15–44 years ^{2,4} | 9,625 | 9,340 | 8,129 | 8,159 | 181.9 | 165.0 | 138.7 | 138.5 |
| Procedures to assist delivery ² | 2,381 | 2,483 | 2,480 | 2,546 | 45.0 | 43.9 | 42.3 | 43.2 |
| Cesarean section ⁶ | 614 | 875 | 940 | 931 | 11.6 | 15.5 | 16.0 | 15.8 |
| Repair of current obstetrical laceration | 352 | 546 | 793 | 792 | 6.7 | 9.6 | 13.5 | 13.4 |
| Bilateral destruction or occlusion of fallopian tubes | 632 | 461 | 418 | 400 | 11.9 | 8.1 | 7.1 | 6.8 |
| Hysterectomy | 402 | 421 | 349 | 322 | 7.6 | 7.4 | 6.0 | 5.5 |
| Diagnostic dilation and curettage of uterus | 625 | 232 | 67 | 64 | 11.8 | 4.1 | 1.1 | 1.1 |
| 45–64 years ^{2,4} | 3,113 | 2,893 | 2,586 | 2,526 | 133.4 | 123.3 | 106.0 | 104.2 |
| Hysterectomy | 203 | 190 | 184 | 161 | 8.7 | 8.1 | 7.5 | 6.6 |
| Oophorectomy and salpingo-oophorectomy | 162 | 165 | 160 | 150 | 7.0 | 7.0 | 6.5 | 6.2 |
| Cardiac catheterization | 58 | 108 | 151 | 151 | 2.5 | 4.6 | 6.2 | 6.2 |
| Cholecystectomy | 107 | 104 | 118 | 132 | 4.6 | 4.4 | 4.8 | 5.4 |
| Excision or destruction of intervertebral disc and spinal fusion | 33 | 48 | 67 | 66 | 1.4 | 2.0 | 2.8 | 2.7 |
| Diagnostic dilation and curettage of uterus | 241 | 83 | 31 | 21 | 10.3 | 3.5 | 1.3 | 0.9 |
| Biopsies on the integumentary system (breast, skin, and subcutaneous tissue) | 69 | 48 | 25 | 18 | 2.9 | 2.1 | 1.0 | 0.7 |
| 65 years and over ^{2,4} | 2,480 | 3,208 | 3,385 | 3,612 | 161.6 | 188.7 | 181.3 | 190.5 |
| Cardiac catheterization | 32 | 101 | 185 | 211 | 2.1 | 6.0 | 9.9 | 11.1 |
| Reduction of fracture (excluding skull, nose, and jaw) | 127 | 163 | 171 | 174 | 8.3 | 9.6 | 9.1 | 9.2 |
| Arthroplasty and replacement of hip | 72 | 108 | 128 | 124 | 4.7 | 6.4 | 6.9 | 6.5 |
| Biopsies on the digestive system | 72 | 140 | 99 | 107 | 4.7 | 8.2 | 5.3 | 5.6 |
| Pacemaker insertion or replacement | 70 | 86 | 99 | 128 | 4.6 | 5.0 | 5.3 | 6.7 |
| Cholecystectomy | 83 | 89 | 83 | 115 | 5.4 | 5.2 | 4.5 | 6.1 |
| Extraction of lens | 211 | 104 | 33 | 48 | 13.8 | 6.1 | 1.8 | 2.5 |
| Insertion of prosthetic lens (pseudophakos) | 93 | 92 | 31 | 45 | 6.1 | 5.4 | 1.7 | 2.4 |

¹Comparisons of data from 1988 through 1991 with data from earlier years should be made with caution as estimates of change may reflect improvements in the design (see Appendix I) rather than true changes in hospital use.

²Beginning in 1989, the definition of some surgical and diagnostic and other nonsurgical procedures was revised, thus causing a discontinuity in the trends for the totals and selected surgical procedures. See Appendix II.

³Rates are age adjusted.

⁴Includes operations not listed in table.

⁵Limited to estimated number of appendectomies, excluding those performed incidental to other abdominal surgery.

⁶Cesarean sections accounted for 16.5 percent of all deliveries in 1980, 22.7 percent in 1985, and 23.5 percent in 1990 and 1991.

*Statistics based on fewer than 5,000 estimated discharges are not shown; those based on 5,000–9,000 estimated discharges are to be used with caution.

NOTES: Excludes newborn infants. Data do not reflect total use of operations because operations for outpatients are not included in the National Hospital Discharge Survey. In recent years, for example, lens extractions and myringotomies are frequently performed on outpatients. Rates are based on the civilian population as of July 1. In each sex and age group, data are shown for the five most common operations in 1980 and 1990. Surgical categories are based on the International Classification of Diseases, 9th Revision, Clinical Modification. For a listing of the code numbers, see Appendix II, table VIII.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Care Statistics: Data from the National Hospital Discharge Survey.

Table 89 (page 1 of 2). Diagnostic and other nonsurgical procedures for inpatients discharged from nonfederal short-stay hospitals, according to sex, age, and procedure category: United States, 1980, 1985, 1990, and 1991

[Data are based on a sample of hospital records]

| Sex, age, and procedure category | Procedures in thousands | | | | Procedures per 1,000 population | | | |
|--|-------------------------|-------|-------------------|-------------------|---------------------------------|-------|-------------------|-------------------|
| | 1980 | 1985 | 1990 ¹ | 1991 ¹ | 1980 | 1985 | 1990 ¹ | 1991 ¹ |
| Male | | | | | | | | |
| All ages ^{2,3,4} | 3,386 | 5,889 | 7,378 | 8,572 | 31.3 | 51.1 | 59.6 | 69.4 |
| Angiocardiography using contrast material..... | 174 | 431 | 833 | 804 | 1.6 | 3.9 | 6.9 | 6.7 |
| Computerized axial tomography (CAT scan)..... | 152 | 671 | 736 | 702 | 1.4 | 5.8 | 5.8 | 5.6 |
| Diagnostic ultrasound..... | 114 | 478 | 667 | 652 | 1.0 | 4.1 | 5.4 | 5.3 |
| Cystoscopy..... | 543 | 461 | 350 | 314 | 5.1 | 4.0 | 2.7 | 2.5 |
| Radioisotope scan..... | 236 | 375 | 268 | 228 | 2.1 | 3.3 | 2.1 | 1.8 |
| Arteriography using contrast material..... | 180 | 262 | 217 | 185 | 1.7 | 2.3 | 1.7 | 1.5 |
| Endoscopy of large intestine without biopsy..... | 228 | 259 | 148 | 153 | 2.1 | 2.2 | 1.2 | 1.2 |
| Under 15 years ^{2,4} | 217 | 297 | 546 | 687 | 8.3 | 11.1 | 19.4 | 24.3 |
| Spinal tap..... | 39 | 62 | 94 | 106 | 1.5 | 2.3 | 3.4 | 3.7 |
| Diagnostic ultrasound..... | *6 | 23 | 47 | 40 | *0.2 | 0.9 | 1.7 | 1.4 |
| Computerized axial tomography (CAT scan)..... | 17 | 35 | 41 | 43 | 0.7 | 1.3 | 1.5 | 1.5 |
| Electroencephalogram..... | *5 | 19 | 17 | 20 | *0.2 | 0.7 | 0.6 | 0.7 |
| Radioisotope scan..... | *8 | *9 | 11 | *8 | *0.3 | *0.4 | 0.4 | *0.3 |
| Application of cast or splint..... | 21 | 16 | 10 | 13 | 0.8 | 0.6 | 0.4 | 0.5 |
| Cystoscopy..... | 23 | 11 | * | *6 | 0.9 | 0.4 | * | *0.2 |
| 15–44 years ^{2,4} | 884 | 1,294 | 1,584 | 1,880 | 17.3 | 23.5 | 27.6 | 32.4 |
| Computerized axial tomography (CAT scan)..... | 37 | 174 | 215 | 208 | 0.7 | 3.2 | 3.8 | 3.6 |
| Diagnostic ultrasound..... | 25 | 96 | 118 | 114 | 0.5 | 1.7 | 2.1 | 2.0 |
| Angiocardiography using contrast material..... | 30 | 55 | 102 | 93 | 0.6 | 1.0 | 1.8 | 1.6 |
| Contrast myelogram..... | 88 | 130 | 58 | 42 | 1.7 | 2.4 | 1.0 | 0.7 |
| Endoscopy of small intestine without biopsy..... | 38 | 61 | 57 | 54 | 0.7 | 1.1 | 1.0 | 0.9 |
| Arthroscopy of knee..... | 94 | 75 | 43 | 44 | 1.8 | 1.4 | 0.7 | 0.8 |
| Cystoscopy..... | 80 | 47 | 35 | 31 | 1.6 | 0.9 | 0.6 | 0.5 |
| Application of cast or splint..... | 54 | 30 | 22 | 15 | 1.1 | 0.6 | 0.4 | 0.3 |
| Endoscopy of large intestine without biopsy..... | 52 | 54 | 21 | 23 | 1.0 | 1.0 | 0.4 | 0.4 |
| 45–64 years ^{2,4} | 1,128 | 1,866 | 2,106 | 2,359 | 53.4 | 87.1 | 93.5 | 105.0 |
| Angiocardiography using contrast material..... | 106 | 251 | 428 | 392 | 5.0 | 11.7 | 19.0 | 17.4 |
| Diagnostic ultrasound..... | 41 | 146 | 184 | 171 | 1.9 | 6.8 | 8.1 | 7.6 |
| Computerized axial tomography (CAT scan)..... | 43 | 182 | 170 | 156 | 2.0 | 8.5 | 7.5 | 7.0 |
| Radioisotope scan..... | 75 | 121 | 81 | 66 | 3.5 | 5.7 | 3.6 | 2.9 |
| Cystoscopy..... | 153 | 114 | 80 | 69 | 7.3 | 5.3 | 3.6 | 3.1 |
| Arteriography using contrast material..... | 76 | 94 | 65 | 63 | 3.6 | 4.4 | 2.9 | 2.8 |
| Endoscopy of large intestine without biopsy..... | 86 | 76 | 42 | 36 | 4.0 | 3.5 | 1.9 | 1.6 |
| 65 years and over ^{2,4} | 1,158 | 2,432 | 3,143 | 3,646 | 111.8 | 211.0 | 243.3 | 285.1 |
| Diagnostic ultrasound..... | 42 | 213 | 319 | 327 | 4.0 | 18.4 | 24.7 | 25.6 |
| Computerized axial tomography (CAT scan)..... | 54 | 280 | 309 | 294 | 5.2 | 24.3 | 23.9 | 23.0 |
| Angiocardiography using contrast material..... | 35 | 123 | 297 | 312 | 3.4 | 10.7 | 23.0 | 24.4 |
| Cystoscopy..... | 287 | 288 | 232 | 209 | 27.7 | 25.0 | 18.0 | 16.3 |
| Radioisotope scan..... | 105 | 177 | 129 | 104 | 10.1 | 15.4 | 10.0 | 8.1 |
| Arteriography using contrast material..... | 72 | 135 | 109 | 89 | 7.0 | 11.7 | 8.4 | 7.0 |
| Endoscopy of large intestine without biopsy..... | 86 | 126 | 84 | 94 | 8.3 | 10.9 | 6.5 | 7.3 |
| Female | | | | | | | | |
| All ages ^{2,3,4} | 3,532 | 6,072 | 10,077 | 11,947 | 27.5 | 43.3 | 68.0 | 79.8 |
| Diagnostic ultrasound..... | 204 | 756 | 941 | 940 | 1.6 | 5.4 | 6.2 | 6.2 |
| Computerized axial tomography (CAT scan)..... | 154 | 707 | 770 | 757 | 1.2 | 4.9 | 4.9 | 4.9 |
| Angiocardiography using contrast material..... | 84 | 219 | 510 | 562 | 0.7 | 1.6 | 3.5 | 3.7 |
| Radioisotope scan..... | 289 | 463 | 335 | 311 | 2.1 | 3.2 | 2.1 | 2.0 |
| Endoscopy of small intestine without biopsy..... | 164 | 281 | 294 | 270 | 1.3 | 2.0 | 1.9 | 1.7 |
| Endoscopy of large intestine without biopsy..... | 307 | 331 | 250 | 243 | 2.3 | 2.3 | 1.5 | 1.5 |
| Laparoscopy (excluding that for ligation and division of fallopian tubes)..... | 235 | 209 | 147 | 292 | 1.8 | 1.5 | 1.0 | 2.1 |
| Cystoscopy..... | 324 | 184 | 135 | 113 | 2.6 | 1.3 | 0.9 | 0.7 |

See footnotes at end of table.

Table 89 (page 2 of 2). Diagnostic and other nonsurgical procedures for inpatients discharged from nonfederal short-stay hospitals, according to sex, age, and procedure category: United States, 1980, 1985, 1990, and 1991

[Data are based on a sample of hospital records]

| Sex, age, and procedure category | Procedures in thousands | | | | Procedures per 1,000 population | | | |
|---|-------------------------|-------|-------------------|-------------------|---------------------------------|-------|-------------------|-------------------|
| | 1980 | 1985 | 1990 ¹ | 1991 ¹ | 1980 | 1985 | 1990 ¹ | 1991 ¹ |
| Female—Con. | | | | | | | | |
| Under 15 years ^{2,4} | 191 | 256 | 403 | 517 | 7.6 | 10.1 | 15.0 | 19.2 |
| Spinal tap | 26 | 50 | 71 | 77 | 1.0 | 2.0 | 2.7 | 2.9 |
| Diagnostic ultrasound | *5 | 25 | 43 | 34 | *0.2 | 1.0 | 1.6 | 1.2 |
| Computerized axial tomography (CAT scan) | 10 | 33 | 27 | 26 | 0.4 | 1.3 | 1.0 | 1.0 |
| Electroencephalogram | * | 15 | 14 | 14 | * | 0.6 | 0.5 | 0.5 |
| Radioisotope scan | *6 | *8 | *9 | *8 | *0.2 | *0.3 | *0.3 | *0.3 |
| Application of cast or splint | 13 | *6 | *6 | *7 | 0.5 | *0.2 | *0.2 | *0.3 |
| Cystoscopy | 38 | *8 | * | * | 1.5 | *0.3 | * | * |
| 15–44 years ^{2,4} | 1,203 | 1,606 | 4,217 | 4,811 | 22.7 | 28.4 | 72.0 | 81.7 |
| Diagnostic ultrasound | 94 | 283 | 309 | 311 | 1.8 | 5.0 | 5.3 | 5.3 |
| Computerized axial tomography (CAT scan) | 36 | 137 | 144 | 152 | 0.7 | 2.4 | 2.5 | 2.6 |
| Laparoscopy (excluding that for ligation and division of fallopian tubes) | 214 | 197 | 120 | 181 | 4.1 | 3.5 | 2.0 | 3.1 |
| Biliary tract x ray | 60 | 90 | 102 | 61 | 1.1 | 1.6 | 1.7 | 1.0 |
| Radioisotope scan | 49 | 83 | 58 | 54 | 0.9 | 1.5 | 1.0 | 0.9 |
| Cystoscopy | 97 | 51 | 39 | 32 | 1.8 | 0.9 | 0.7 | 0.5 |
| Contrast myelogram | 66 | 96 | 36 | 30 | 1.2 | 1.7 | 0.6 | 0.5 |
| Endoscopy of large intestine without biopsy | 77 | 58 | 34 | 34 | 1.5 | 1.0 | 0.6 | 0.6 |
| 45–64 years ^{2,4} | 1,030 | 1,584 | 1,861 | 2,153 | 44.2 | 67.5 | 76.3 | 88.8 |
| Angiocardiography using contrast material | 49 | 105 | 214 | 224 | 2.1 | 4.5 | 8.8 | 9.2 |
| Diagnostic ultrasound | 44 | 154 | 174 | 184 | 1.9 | 6.6 | 7.1 | 7.6 |
| Computerized axial tomography (CAT scan) | 42 | 167 | 163 | 171 | 1.8 | 7.1 | 6.7 | 7.1 |
| Radioisotope scan | 92 | 128 | 79 | 82 | 3.9 | 5.5 | 3.2 | 3.4 |
| Endoscopy of small intestine without biopsy | 55 | 78 | 71 | 66 | 2.3 | 3.3 | 2.9 | 2.7 |
| Endoscopy of large intestine without biopsy | 94 | 89 | 59 | 54 | 4.0 | 3.8 | 2.4 | 2.2 |
| Cystoscopy | 93 | 48 | 37 | 27 | 4.0 | 2.1 | 1.5 | 1.1 |
| 65 years and over ^{2,4} | 1,107 | 2,626 | 3,596 | 4,466 | 72.1 | 154.4 | 192.6 | 235.5 |
| Computerized axial tomography (CAT scan) | 66 | 370 | 436 | 408 | 4.3 | 21.8 | 23.3 | 21.5 |
| Diagnostic ultrasound | 62 | 294 | 415 | 412 | 4.0 | 17.3 | 22.2 | 21.7 |
| Angiocardiography using contrast material | 21 | 90 | 245 | 292 | 1.4 | 5.3 | 13.1 | 15.4 |
| Radioisotope scan | 143 | 244 | 189 | 167 | 9.3 | 14.4 | 10.1 | 8.8 |
| Endoscopy of small intestine without biopsy | 55 | 133 | 168 | 153 | 3.6 | 7.8 | 9.0 | 8.1 |
| Endoscopy of large intestine without biopsy | 131 | 181 | 156 | 153 | 8.5 | 10.7 | 8.4 | 8.1 |
| Cystoscopy | 96 | 77 | 56 | 51 | 6.2 | 4.5 | 3.0 | 2.7 |

¹Comparisons of data from 1988 through 1991 with data from earlier years should be made with caution as estimates of change may reflect improvements in the design (see Appendix I) rather than true changes in hospital use.

²Beginning in 1989, the definition of some surgical and diagnostic and other nonsurgical procedures was revised, thus causing a discontinuity in the trends for the totals. See Appendix II.

³Rates are age adjusted.

⁴Includes nonsurgical procedures not shown.

*Statistics based on fewer than 5,000 estimated discharges are not shown; those based on 5,000–9,000 estimated discharges are to be used with caution.

NOTES: Excludes newborn infants. Data do not reflect total use of procedures because procedures for outpatients are not included in the National Hospital Discharge Survey. For example, CAT scans are frequently performed on outpatients. Rates are based on the civilian population as of July 1. In each sex and age group, data are shown for the five most common procedures in 1980 and 1990. Procedure categories are based on the International Classification of Diseases, 9th Revision, Clinical Modification. For a listing of the code numbers, see Appendix II, table IX.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Care Statistics: Data from the National Hospital Discharge Survey.

Table 90. Admissions, average length of stay, outpatient visits, and percent outpatient surgery in short-stay hospitals, according to type of ownership and size of hospital: United States, selected years 1960–91

[Data are based on reporting by a census of hospitals]

| Type of ownership and size of hospital | 1960 | 1970 | 1975 | 1980 | 1985 | 1987 | 1988 | 1989 | 1990 | 1991 |
|---|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Admissions | | | | | | | | | | |
| All ownerships..... | 24,324 | 30,706 | 35,270 | 38,140 | 35,478 | 33,592 | 33,233 | 32,842 | 32,849 | 32,634 |
| Federal..... | 1,354 | 1,454 | 1,751 | 1,942 | 1,977 | 1,959 | 1,753 | 1,701 | 1,646 | 1,551 |
| Nonfederal..... | 22,970 | 29,252 | 33,519 | 36,198 | 33,501 | 31,633 | 31,480 | 31,141 | 31,203 | 31,084 |
| Nonprofit..... | 16,788 | 20,948 | 23,735 | 25,576 | 24,188 | 22,946 | 22,798 | 22,883 | 22,968 | 22,968 |
| Proprietary..... | 1,550 | 2,031 | 2,646 | 3,165 | 3,242 | 3,157 | 3,090 | 3,071 | 3,066 | 3,016 |
| State-local government..... | 4,632 | 6,273 | 7,138 | 7,458 | 6,071 | 5,530 | 5,444 | 5,271 | 5,254 | 5,100 |
| Size of hospital: | | | | | | | | | | |
| 6–99 beds..... | --- | --- | 5,639 | 5,436 | 4,311 | 3,968 | 3,871 | 3,784 | 3,704 | 3,598 |
| 100–199 beds..... | --- | --- | 7,276 | 7,452 | 6,713 | 6,244 | 6,196 | 6,232 | 6,135 | 6,099 |
| 200–299 beds..... | --- | --- | 6,287 | 6,789 | 6,484 | 6,403 | 6,480 | 6,472 | 6,601 | 6,463 |
| 300–499 beds..... | --- | --- | 8,795 | 10,137 | 9,620 | 9,016 | 8,885 | 8,845 | 8,944 | 9,102 |
| 500 beds or more..... | --- | --- | 7,274 | 8,327 | 8,348 | 7,961 | 7,802 | 7,509 | 7,465 | 7,374 |
| Average length of stay | | | | | | | | | | |
| All ownerships..... | 8.4 | 8.7 | 8.0 | 7.8 | 7.3 | 7.4 | 7.5 | 7.5 | 7.5 | 7.4 |
| Federal..... | 21.4 | 17.0 | 14.4 | 12.9 | 11.6 | 11.3 | 12.5 | 12.1 | 12.3 | 12.7 |
| Nonfederal..... | 7.6 | 8.2 | 7.7 | 7.6 | 7.1 | 7.2 | 7.2 | 7.3 | 7.3 | 7.2 |
| Nonprofit..... | 7.4 | 8.2 | 7.8 | 7.7 | 7.2 | 7.2 | 7.2 | 7.3 | 7.3 | 7.2 |
| Proprietary..... | 5.7 | 6.8 | 6.6 | 6.5 | 6.1 | 6.3 | 6.2 | 6.3 | 6.4 | 6.3 |
| State-local government..... | 8.8 | 8.7 | 7.6 | 7.4 | 7.2 | 7.6 | 7.6 | 7.7 | 7.8 | 7.8 |
| Size of hospital: | | | | | | | | | | |
| 6–99 beds..... | --- | --- | 6.5 | 6.3 | 6.0 | 6.4 | 6.5 | 6.6 | 6.7 | 6.8 |
| 100–199 beds..... | --- | --- | 7.2 | 7.1 | 6.7 | 6.9 | 6.9 | 7.0 | 7.1 | 7.0 |
| 200–299 beds..... | --- | --- | 7.6 | 7.5 | 6.9 | 7.0 | 7.1 | 7.0 | 7.0 | 7.0 |
| 300–499 beds..... | --- | --- | 8.2 | 8.0 | 7.3 | 7.3 | 7.4 | 7.4 | 7.3 | 7.2 |
| 500 beds or more..... | --- | --- | 10.2 | 9.6 | 8.8 | 8.8 | 9.0 | 8.9 | 8.9 | 8.9 |
| Outpatient visits ¹ | | | | | | | | | | |
| All ownerships..... | --- | 173,058 | 245,938 | 255,320 | 272,833 | 300,960 | 326,575 | 342,618 | 358,833 | 377,922 |
| Federal..... | --- | 39,514 | 49,627 | 48,568 | 50,059 | 53,256 | 55,139 | 54,709 | 56,142 | 54,720 |
| Nonfederal..... | --- | 133,545 | 196,311 | 206,752 | 222,773 | 247,704 | 271,436 | 287,909 | 302,691 | 323,202 |
| Nonprofit..... | --- | 90,992 | 132,368 | 142,864 | 160,002 | 178,089 | 195,864 | 209,641 | 221,175 | 238,305 |
| Proprietary..... | --- | 4,698 | 7,713 | 9,696 | 12,378 | 16,566 | 17,926 | 19,341 | 20,110 | 21,174 |
| State-local government..... | --- | 37,854 | 56,230 | 54,192 | 50,394 | 53,049 | 57,646 | 58,926 | 61,407 | 63,723 |
| Size of hospital: | | | | | | | | | | |
| 6–99 beds..... | --- | --- | 41,346 | 41,875 | 41,813 | 48,273 | 52,294 | 53,875 | 55,780 | 57,303 |
| 100–199 beds..... | --- | --- | 40,433 | 45,686 | 50,542 | 57,267 | 63,663 | 67,736 | 70,229 | 75,187 |
| 200–299 beds..... | --- | --- | 38,122 | 41,119 | 45,805 | 50,626 | 56,570 | 62,975 | 67,529 | 71,250 |
| 300–499 beds..... | --- | --- | 63,019 | 65,550 | 68,664 | 73,369 | 78,569 | 82,532 | 87,585 | 92,250 |
| 500 beds or more..... | --- | --- | 63,019 | 61,089 | 66,008 | 71,426 | 75,480 | 75,499 | 77,709 | 81,934 |
| Outpatient surgery | | | | | | | | | | |
| All ownerships..... | --- | --- | --- | 16.4 | 34.5 | 44.2 | 46.9 | 48.7 | 50.6 | 52.1 |
| Federal..... | --- | --- | --- | 18.9 | 34.0 | 49.3 | 49.0 | 51.3 | 51.8 | 47.8 |
| Nonfederal..... | --- | --- | --- | 16.3 | 34.5 | 43.9 | 46.8 | 48.5 | 50.5 | 52.3 |
| Nonprofit..... | --- | --- | --- | 17.1 | 35.5 | 44.3 | 47.0 | 48.6 | 50.7 | 52.5 |
| Proprietary..... | --- | --- | --- | 14.3 | 34.1 | 47.3 | 50.5 | 52.5 | 54.7 | 55.1 |
| State-local government..... | --- | --- | --- | 13.6 | 29.7 | 39.3 | 43.1 | 45.0 | 46.5 | 48.7 |
| Size of hospital: | | | | | | | | | | |
| 6–99 beds..... | --- | --- | --- | 17.8 | 36.5 | 49.4 | 52.8 | 54.1 | 56.4 | 58.7 |
| 100–199 beds..... | --- | --- | --- | 15.4 | 36.4 | 47.1 | 50.2 | 52.4 | 54.9 | 56.5 |
| 200–299 beds..... | --- | --- | --- | 16.7 | 36.5 | 45.7 | 49.3 | 50.6 | 52.8 | 54.6 |
| 300–499 beds..... | --- | --- | --- | 17.1 | 34.5 | 43.1 | 46.6 | 48.0 | 48.8 | 50.5 |
| 500 beds or more..... | --- | --- | --- | 15.3 | 30.5 | 39.1 | 39.5 | 41.5 | 44.1 | 44.5 |

¹Because of modifications in 1977 and 1982 in the collection of outpatient data, there are discontinuities in the trends for this item.

²The American Hospital Association defines surgery as a surgical episode in the operating or procedure room. During a single episode, multiple surgical procedures may be performed.

NOTE: Excludes psychiatric and tuberculosis and other respiratory disease hospitals.

SOURCES: American Hospital Association: Hospitals. JAHA 35(15):396–401 and 45(15):463–467, Aug. 1961 and Aug. 1971; Hospital Statistics, 1976, 1981, 1985–92 Editions. Chicago, 1976, 1981, 1985–92. (Copyrights 1961, 1971, 1976, 1981, 1985–92: Used with the permission of the American Hospital Association.)

Table 91. Nursing home and personal care home residents 65 years of age and over and rate per 1,000 population, according to age, sex, and race: United States, 1963, 1973–74, 1977, and 1985

[Data are based on a sample of nursing homes]

| Age, sex, and race | Residents | | | | Residents per 1,000 population ¹ | | | |
|-------------------------|-----------|----------------------|-------------------|-----------|---|----------------------|-------------------|-------|
| | 1963 | 1973–74 ² | 1977 ³ | 1985 | 1963 | 1973–74 ² | 1977 ³ | 1985 |
| Age | | | | | | | | |
| All ages..... | 445,600 | 961,500 | 1,126,000 | 1,318,300 | 25.4 | 44.7 | 47.1 | 46.2 |
| 65–74 years | 89,600 | 163,100 | 211,400 | 212,100 | 7.9 | 12.3 | 14.4 | 12.5 |
| 75–84 years | 207,200 | 384,900 | 464,700 | 509,000 | 39.6 | 57.7 | 64.0 | 57.7 |
| 85 years and over | 148,700 | 413,600 | 449,900 | 597,300 | 148.4 | 257.3 | 225.9 | 220.3 |
| Sex | | | | | | | | |
| Male..... | 141,000 | 265,700 | 294,000 | 334,400 | 18.1 | 30.0 | 30.3 | 29.0 |
| 65–74 years | 35,100 | 65,100 | 80,200 | 80,600 | 6.8 | 11.3 | 12.6 | 10.8 |
| 75–84 years | 65,200 | 102,300 | 122,100 | 141,300 | 29.1 | 39.9 | 44.9 | 43.0 |
| 85 years and over | 40,700 | 98,300 | 91,700 | 112,600 | 105.6 | 182.7 | 146.3 | 145.7 |
| Female..... | 304,500 | 695,800 | 832,000 | 983,900 | 31.1 | 54.9 | 58.6 | 57.9 |
| 65–74 years | 54,500 | 98,000 | 131,200 | 131,500 | 8.8 | 13.1 | 15.8 | 13.8 |
| 75–84 years | 142,000 | 282,600 | 342,600 | 367,700 | 47.5 | 68.9 | 75.4 | 66.4 |
| 85 years and over | 108,000 | 315,300 | 358,200 | 484,700 | 175.1 | 294.9 | 262.4 | 250.1 |
| Race ⁴ | | | | | | | | |
| White..... | 431,700 | 920,600 | 1,059,900 | 1,227,400 | 26.6 | 46.9 | 48.9 | 47.7 |
| 65–74 years | 84,400 | 150,100 | 187,500 | 187,800 | 8.1 | 12.5 | 14.2 | 12.3 |
| 75–84 years | 202,000 | 369,700 | 443,200 | 473,600 | 41.7 | 60.3 | 67.0 | 59.1 |
| 85 years and over | 145,400 | 400,800 | 429,100 | 566,000 | 157.7 | 270.8 | 234.2 | 228.7 |
| Black | 13,800 | 37,700 | 60,800 | 82,000 | 10.3 | 22.0 | 30.7 | 35.0 |
| 65–74 years | 5,200 | 12,200 | 22,000 | 22,500 | 5.9 | 11.1 | 17.6 | 15.4 |
| 75–84 years | 5,300 | 13,400 | 19,700 | 30,600 | 13.8 | 26.7 | 33.4 | 45.3 |
| 85 years and over | 3,300 | 12,100 | 19,100 | 29,000 | 41.8 | 105.7 | 133.6 | 141.5 |

¹Residents per 1,000 population for 1973–74 and 1977 will differ from those presented in the sources because the rates have been recomputed using revised census estimates for these years (see source note).

²Excludes residents in personal care or domiciliary care homes.

³Includes residents in domiciliary care homes.

⁴For data years 1973–74 and 1977, all Hispanics were included in the white category. For 1963, black includes all other races.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Characteristics of residents in institutions for the aged and chronically ill, United States, April–June 1963, by G. S. Wunderlich. Vital and Health Statistics. Series 12, No. 2. DHEW Pub. No. (PHS) 1000. Public Health Service. Washington. U.S. Government Printing Office, Sept. 1965; Characteristics, social contacts, and activities of nursing home residents, United States: 1973–74 National Nursing Home Survey, by A. Zappolo. Vital and Health Statistics. Series 13, No. 27. DHEW Pub. No. (HRA) 77-1778. Health Resources Administration. Washington. U.S. Government Printing Office, May 1977; Characteristics of nursing home residents, health status, and care received: National Nursing Home Survey, United States, May–December 1977, by E. Hing. Vital and Health Statistics. Series 13, No. 51. DHHS Pub. No. (PHS) 81-1712. Public Health Service. Washington. U.S. Government Printing Office, April 1981; The National Nursing Home Survey: 1985 summary for the United States, by E. Hing, E. Sekscenski, and G. Strahan. Vital and Health Statistics. Series 13, No. 97. DHHS Pub. No. (PHS) 89-1758. Public Health Service. Washington. U.S. Government Printing Office, Jan. 1989. U.S. Bureau of the Census: Preliminary estimates of the population of the United States by age, sex, and race: 1970–1981. Current Population Reports, Series P-25, No. 917. Washington. U.S. Government Printing Office, July 1982.

Table 92. Nursing home residents, according to selected functional status and age: United States, 1977 and 1985

[Data are based on a sample of nursing homes]

| Functional status | 1977 | | | | | 1985 | | | | |
|--|-----------|----------------|-------------|-------------|-------------------|-----------|----------------|-------------|-------------|-------------------|
| | All ages | Under 65 years | 65-74 years | 75-84 years | 85 years and over | All ages | Under 65 years | 65-74 years | 75-84 years | 85 years and over |
| Number of residents | | | | | | | | | | |
| All residents | 1,303,100 | 177,100 | 211,400 | 464,700 | 449,900 | 1,491,400 | 173,100 | 212,100 | 509,000 | 597,300 |
| Percent distribution | | | | | | | | | | |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Dressing | | | | | | | | | | |
| Independent | 30.6 | 44.8 | 38.8 | 27.5 | 24.2 | 24.6 | 41.1 | 29.8 | 24.1 | 18.3 |
| Requires assistance ¹ | 69.4 | 55.2 | 61.2 | 72.5 | 75.8 | 75.4 | 58.9 | 70.2 | 75.9 | 81.7 |
| Using toilet room | | | | | | | | | | |
| Independent | 47.5 | 61.8 | 53.1 | 45.7 | 41.0 | 39.1 | 57.1 | 43.4 | 39.7 | 32.0 |
| Requires assistance | 42.5 | 28.1 | 37.8 | 44.7 | 48.0 | 48.9 | 31.5 | 45.8 | 47.8 | 55.9 |
| Does not use | 10.1 | 10.1 | 9.1 | 9.6 | 11.0 | 12.0 | 11.4 | 10.8 | 12.6 | 12.1 |
| Mobility | | | | | | | | | | |
| Walks independently | 33.9 | 53.6 | 43.2 | 33.2 | 22.5 | 29.3 | 51.0 | 39.6 | 30.4 | 18.4 |
| Walks with assistance | 28.8 | 15.7 | 21.4 | 30.5 | 35.6 | 24.8 | 13.5 | 20.4 | 24.7 | 29.6 |
| Chairfast | 32.0 | 25.5 | 30.5 | 31.5 | 35.9 | 39.5 | 29.3 | 33.7 | 38.7 | 45.1 |
| Bedfast | 5.3 | 5.2 | 5.0 | 4.9 | 6.1 | 6.5 | 6.2 | 6.3 | 6.1 | 6.9 |
| Continenence | | | | | | | | | | |
| No difficulty controlling bowel or bladder | 54.7 | 68.0 | 62.4 | 52.9 | 47.8 | 48.1 | 67.7 | 57.1 | 45.0 | 41.9 |
| Difficulty controlling— | | | | | | | | | | |
| Bowel | 3.7 | 3.0 | 3.7 | 4.0 | 3.8 | 1.9 | *1.5 | *2.0 | 1.7 | 2.2 |
| Bladder | 9.0 | 5.8 | 6.5 | 9.4 | 11.1 | 10.3 | 6.4 | 6.8 | 11.0 | 12.0 |
| Bowel and bladder | 25.9 | 16.8 | 20.6 | 26.9 | 30.8 | 31.7 | 16.8 | 27.5 | 33.6 | 35.8 |
| Ostomy in either bowel or bladder | 6.7 | 6.4 | 6.8 | 6.9 | 6.5 | 8.1 | 7.5 | 6.6 | 8.7 | 8.1 |
| Eating | | | | | | | | | | |
| Independent | 67.4 | 73.8 | 72.9 | 66.2 | 63.5 | 60.7 | 68.5 | 66.6 | 60.9 | 56.1 |
| Requires assistance ² | 32.6 | 26.2 | 27.1 | 33.8 | 36.5 | 39.3 | 31.5 | 33.4 | 39.1 | 43.9 |
| Vision | | | | | | | | | | |
| Not impaired | 67.2 | 81.0 | 75.4 | 67.9 | 57.2 | 75.9 | 88.5 | 83.3 | 77.8 | 68.1 |
| Partially impaired | 19.0 | 10.9 | 13.4 | 19.6 | 24.1 | 14.6 | 5.9 | 10.0 | 14.2 | 19.1 |
| Severely impaired | 6.6 | 2.2 | 3.3 | 6.1 | 10.4 | 5.6 | *1.9 | 4.3 | 4.1 | 8.4 |
| Completely lost | 2.9 | 2.2 | 2.6 | 2.6 | 3.8 | 2.5 | *2.5 | *1.3 | 2.1 | 3.2 |
| Unknown | 4.3 | 3.8 | 5.3 | 3.9 | 4.5 | 1.4 | *1.2 | *1.0 | 1.8 | 1.2 |
| Hearing | | | | | | | | | | |
| Not impaired | 69.5 | 87.6 | 81.0 | 71.6 | 54.9 | 78.5 | 96.1 | 90.4 | 82.6 | 65.7 |
| Partially impaired | 21.7 | 6.6 | 11.4 | 21.2 | 33.1 | 16.7 | *3.1 | 7.4 | 14.8 | 25.5 |
| Severely impaired | 4.3 | *0.4 | 1.9 | 3.0 | 8.4 | 3.4 | *0.1 | *1.1 | 1.5 | 6.8 |
| Completely lost | 0.7 | *1.1 | *0.7 | *0.6 | *0.7 | 0.6 | *0.1 | *0.4 | *0.6 | *0.8 |
| Unknown | 3.7 | 4.4 | 5.0 | 3.6 | 3.0 | 0.8 | *0.5 | *0.7 | *0.5 | 1.1 |

¹Includes those who do not dress.

²Includes those who are tube or intravenously fed.

*Relative standard error greater than 30 percent.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Care Statistics: Characteristics of nursing home residents, health status, and care received: National Nursing Home Survey, United States, May–December 1977, by E. Hing, Vital and Health Statistics, Series 13, No. 51. DHHS Pub. No. (PHS) 81-1712. Public Health Service. Washington, U.S. Government Printing Office, April 1981; The National Nursing Home Survey: 1985 summary for the United States, by E. Hing, E. Sekscenski, and G. Strahan. Vital and Health Statistics, Series 13, No. 97. DHHS Pub. No. (PHS) 89-1758. Public Health Service. Washington, U.S. Government Printing Office, Jan. 1989.

Table 93. Additions to mental health organizations and rate per 100,000 civilian population, according to type of service and organization: United States, selected years 1975–88

[Data are based on inventories of mental health organizations]

| Service and organization | Additions in thousands | | | | Rate per 100,000 civilian population | | | |
|--|------------------------|-------|-------|-------|--------------------------------------|---------|---------|---------|
| | 1975 | 1983 | 1986 | 1988 | 1975 | 1983 | 1986 | 1988 |
| Inpatient and residential treatment | | | | | | | | |
| All organizations | 1,558 | 1,633 | 1,817 | 1,999 | 736.5 | 701.4 | 759.9 | 819.1 |
| State and county mental hospitals | 434 | 339 | 330 | 304 | 205.1 | 146.0 | 139.1 | 124.5 |
| Private psychiatric hospitals | 126 | 165 | 235 | 381 | 59.4 | 70.9 | 98.0 | 156.2 |
| Nonfederal general hospital psychiatric services | 544 | 786 | 849 | 877 | 257.2 | 336.8 | 354.8 | 359.4 |
| Veterans Administration psychiatric services ¹ | 181 | 149 | 180 | 246 | 85.5 | 64.3 | 75.1 | 100.7 |
| Federally funded community mental health centers | 236 | ... | ... | ... | 111.7 | ... | ... | ... |
| Residential treatment centers for emotionally disturbed children | 12 | 17 | 25 | 23 | 5.7 | 7.1 | 10.2 | 9.6 |
| All other ^{2,3} | 25 | 177 | 198 | 168 | 11.9 | 76.3 | 82.7 | 68.7 |
| Outpatient treatment | | | | | | | | |
| All organizations | 2,291 | 2,665 | 2,765 | 2,988 | 1,083.2 | 1,147.5 | 1,155.7 | 1,223.8 |
| State and county mental hospitals | 146 | 84 | 62 | 94 | 69.1 | 36.3 | 26.0 | 38.5 |
| Private psychiatric hospitals | 33 | 78 | 123 | 125 | 15.6 | 33.4 | 51.5 | 51.2 |
| Nonfederal general hospital psychiatric services | 255 | 469 | 494 | 466 | 120.5 | 202.1 | 206.3 | 190.8 |
| Veterans Administration psychiatric services ¹ | 94 | 103 | 125 | 214 | 44.4 | 44.5 | 52.3 | 87.7 |
| Federally funded community mental health centers | 785 | ... | ... | ... | 371.2 | ... | ... | ... |
| Residential treatment centers for emotionally disturbed children | 20 | 33 | 62 | 56 | 9.4 | 14.1 | 25.8 | 22.8 |
| Freestanding psychiatric outpatient clinics ³ | 871 | 538 | 391 | 554 | 411.8 | 231.7 | 163.2 | 226.8 |
| All other ^{2,3} | 87 | 1,360 | 1,508 | 1,479 | 41.2 | 585.4 | 630.6 | 606.0 |
| Partial care treatment | | | | | | | | |
| All organizations | 163 | 177 | 189 | 276 | 77.2 | 76.3 | 78.9 | 113.1 |
| State and county mental hospitals | 14 | 4 | 6 | 6 | 6.7 | 1.6 | 2.4 | 2.3 |
| Private psychiatric hospitals | 3 | 6 | 9 | 39 | 1.5 | 2.4 | 3.7 | 16.1 |
| Nonfederal general hospital psychiatric services | 14 | 46 | 39 | 39 | 6.7 | 19.8 | 16.4 | 16.1 |
| Veterans Administration psychiatric services ¹ | 8 | 10 | 7 | 16 | 3.7 | 4.4 | 3.1 | 6.5 |
| Federally funded community mental health centers | 94 | ... | ... | ... | 44.5 | ... | ... | ... |
| Residential treatment centers for emotionally disturbed children | 3 | 3 | 5 | 9 | 1.6 | 1.5 | 2.3 | 3.5 |
| Freestanding psychiatric outpatient clinics ^{3,4} | 22 | 5 | ... | ... | 10.4 | 2.3 | ... | ... |
| All other ^{2,3,5} | 5 | 103 | 123 | 167 | 2.1 | 44.3 | 51.0 | 68.6 |

¹Includes Veterans Administration neuropsychiatric hospitals, Veterans Administration general hospitals with separate psychiatric services, and freestanding psychiatric outpatient clinics.

²Includes other multiservice mental health organizations with inpatient and residential treatment services that are not elsewhere classified.

³Beginning in 1983 a definitional change sharply increased the number of multiservice mental health organizations while decreasing the number of freestanding psychiatric outpatient clinics. See Appendix I.

⁴Beginning in 1986 outpatient psychiatric clinics providing partial care are counted as multiservice mental health organizations in the "all other" category.

⁵Includes freestanding psychiatric partial care organizations.

NOTES: Changes in reporting procedures in 1981 affect the comparability of data from 1981 and later years with those from previous years. Some numbers in this table have been revised and differ from previous editions of Health, United States.

SOURCES: Statistical Research Branch, Division of Applied and Services Research, National Institute of Mental Health: R. W. Manderscheid and S. A. Barrett: Mental Health, United States, 1987. DHHS Pub. No. (ADM) 87-1518. U.S. Government Printing Office, 1987; R. W. Manderscheid and M. A. Sonnenschein: Mental Health, United States, 1990. DHHS Pub. No. (ADM) 90-1708. U.S. Government Printing Office, 1990; Unpublished data.

Table 94. Inpatient and residential treatment episodes in mental health organizations, rate per 100,000 civilian population, and inpatient days, according to type of organization: United States, selected years 1975–88

[Data are based on inventories of mental health organizations]

| Organization | 1975 | 1981 ¹ | 1983 | 1986 | 1988 |
|--|---------|-------------------|--------|--------|--------|
| Episodes in thousands | | | | | |
| All organizations | 1,817 | 1,720 | 1,861 | 2,055 | 2,229 |
| State and county mental hospitals | 599 | 499 | 459 | 445 | 407 |
| Private psychiatric hospitals | 137 | 177 | 181 | 258 | 410 |
| Nonfederal general hospital psychiatric services | 566 | 677 | 820 | 883 | 912 |
| Veterans Administration psychiatric services ² | 214 | 206 | 171 | 204 | 266 |
| Federally funded community mental health centers | 247 | ... | ... | ... | ... |
| Residential treatment centers for emotionally disturbed children | 28 | 34 | 33 | 47 | 47 |
| All other ^{3,4} | 26 | 127 | 197 | 218 | 187 |
| Episodes per 100,000 civilian population | | | | | |
| All organizations | 859.6 | 755.6 | 799.1 | 858.9 | 913.9 |
| State and county mental hospitals | 283.3 | 219.3 | 197.7 | 186.0 | 166.7 |
| Private psychiatric hospitals | 64.8 | 77.5 | 77.8 | 107.9 | 167.9 |
| Nonfederal general hospital psychiatric services | 267.6 | 297.3 | 351.3 | 369.0 | 374.4 |
| Veterans Administration psychiatric services ² | 101.4 | 90.3 | 73.4 | 85.2 | 109.0 |
| Federally funded community mental health centers | 116.8 | ... | ... | ... | ... |
| Residential treatment centers for emotionally disturbed children | 13.4 | 15.1 | 14.0 | 19.7 | 19.3 |
| All other ^{3,4} | 12.3 | 56.1 | 84.9 | 91.1 | 76.6 |
| Inpatient days in thousands | | | | | |
| All organizations | 104,970 | 77,053 | 81,821 | 83,413 | 83,161 |
| State and county mental hospitals | 70,584 | 44,558 | 42,427 | 39,075 | 36,452 |
| Private psychiatric hospitals | 4,401 | 5,578 | 6,010 | 8,568 | 10,840 |
| Nonfederal general hospital psychiatric services | 8,349 | 10,727 | 12,529 | 12,570 | 13,104 |
| Veterans Administration psychiatric services ² | 11,725 | 7,591 | 7,425 | 7,753 | 7,155 |
| Federally funded community mental health centers | 3,718 | ... | ... | ... | ... |
| Residential treatment centers for emotionally disturbed children | 5,900 | 6,127 | 5,776 | 8,267 | 8,429 |
| All other ^{3,4} | 293 | 2,472 | 7,654 | 7,180 | 7,181 |

¹In 1981, some organizations were reclassified and data for some organization types were not available, resulting in a particularly large increase for the "all other" category in 1981.

²Includes Veterans Administration neuropsychiatric hospitals and Veterans Administration general hospitals with separate psychiatric services.

³Includes other multiservice mental health organizations with inpatient and residential treatment services that are not elsewhere classified.

⁴Beginning in 1983 a definitional change sharply increased the number of multiservice mental health organizations. See Appendix I.

NOTES: Changes in reporting procedures in 1981 affect the comparability of data from 1981 and later years with those from previous years. Some numbers in this table have been revised and differ from previous editions of Health, United States.

SOURCES: Statistical Research Branch, Division of Applied and Services Research, National Institute of Mental Health: R. W. Manderscheid and S. A. Barrett: Mental Health, United States, 1987. DHHS Pub. No. (ADM) 87-1518. U.S. Government Printing Office, 1987; R. W. Manderscheid and M. A. Sonnenschein: Mental Health, United States, 1990. DHHS Pub. No. (ADM) 90-1708. U.S. Government Printing Office, 1990; Unpublished data.

Table 95. Additions to selected inpatient psychiatric organizations and rate per 100,000 civilian population, according to sex, age, and race: United States, 1975, 1980, and 1986

[Data are based on a sample survey of patients]

| Sex, age, and race | State and county mental hospitals | | | Private psychiatric hospitals | | | Nonfederal general hospitals ¹ | | |
|--------------------------------------|-----------------------------------|-------|-------|-------------------------------|------|-------|---|-------|-------|
| | 1975 | 1980 | 1986 | 1975 | 1980 | 1986 | 1975 | 1980 | 1986 |
| Both sexes | | | | | | | | | |
| Total | 385 | 369 | 326 | 130 | 141 | 207 | 516 | 564 | 794 |
| Under 18 years | 25 | 17 | 16 | 15 | 17 | 42 | 43 | 44 | 46 |
| 18-24 years | 72 | 77 | 58 | 19 | 23 | 22 | 93 | 98 | 120 |
| 25-44 years | 166 | 177 | 189 | 47 | 56 | 91 | 220 | 249 | 405 |
| 45-64 years | 102 | 78 | 48 | 35 | 32 | 34 | 121 | 123 | 142 |
| 65 years and over | 21 | 20 | 15 | 13 | 14 | 18 | 38 | 50 | 82 |
| White | 296 | 265 | 217 | 119 | 123 | 177 | 451 | 469 | 607 |
| All other | 89 | 104 | 109 | 10 | 18 | 30 | 65 | 95 | 187 |
| Male | | | | | | | | | |
| Total | 249 | 239 | 205 | 56 | 67 | 107 | 212 | 255 | 379 |
| Under 18 years | 16 | 11 | 10 | 8 | 9 | 23 | 20 | 20 | 21 |
| 18-24 years | 52 | 56 | 39 | 10 | 13 | 14 | 45 | 52 | 57 |
| 25-44 years | 107 | 119 | 125 | 20 | 27 | 50 | 85 | 115 | 215 |
| 45-64 years | 61 | 43 | 25 | 14 | 13 | 14 | 48 | 46 | 60 |
| 65 years and over | 13 | 11 | 7 | 5 | 5 | 6 | 14 | 21 | 26 |
| White | 191 | 171 | 135 | 51 | 58 | 89 | 184 | 213 | 274 |
| All other | 58 | 68 | 69 | 5 | 9 | 18 | 27 | 42 | 105 |
| Female | | | | | | | | | |
| Total | 136 | 130 | 121 | 74 | 74 | 101 | 304 | 309 | 415 |
| Under 18 years | 9 | 5 | 6 | 8 | 7 | 20 | 23 | 23 | 25 |
| 18-24 years | 20 | 22 | 19 | 9 | 10 | 8 | 48 | 45 | 63 |
| 25-44 years | 59 | 58 | 64 | 28 | 29 | 41 | 135 | 135 | 190 |
| 45-64 years | 41 | 35 | 24 | 21 | 18 | 20 | 74 | 77 | 81 |
| 65 years and over | 8 | 9 | 8 | 8 | 9 | 12 | 24 | 29 | 56 |
| White | 105 | 94 | 82 | 69 | 65 | 88 | 267 | 256 | 333 |
| All other | 31 | 36 | 40 | 5 | 9 | 13 | 37 | 53 | 82 |
| Both sexes | | | | | | | | | |
| Rate per 100,000 civilian population | | | | | | | | | |
| Total | 182.2 | 163.6 | 136.1 | 61.4 | 62.6 | 86.7 | 243.8 | 250.0 | 331.7 |
| Under 18 years | 38.1 | 26.1 | 25.2 | 23.3 | 26.3 | 67.1 | 64.4 | 68.5 | 72.0 |
| 18-24 years | 271.8 | 264.6 | 215.5 | 73.7 | 79.6 | 81.3 | 352.8 | 334.2 | 443.7 |
| 25-44 years | 314.1 | 282.9 | 251.9 | 89.3 | 89.1 | 121.6 | 416.8 | 399.0 | 540.4 |
| 45-64 years | 233.5 | 175.7 | 107.0 | 80.1 | 71.0 | 75.2 | 278.5 | 276.4 | 314.9 |
| 65 years and over | 91.8 | 78.0 | 50.9 | 57.7 | 54.1 | 61.9 | 170.3 | 195.4 | 281.5 |
| White | 161.1 | 136.8 | 106.7 | 64.9 | 63.4 | 87.3 | 245.4 | 241.8 | 299.0 |
| All other | 321.9 | 328.0 | 299.8 | 37.9 | 57.5 | 83.1 | 233.3 | 300.0 | 514.3 |
| Male | | | | | | | | | |
| Total | 243.7 | 219.8 | 176.6 | 54.5 | 61.9 | 92.1 | 207.1 | 233.8 | 327.6 |
| Under 18 years | 48.3 | 35.4 | 30.1 | 22.5 | 28.9 | 69.8 | 59.1 | 62.6 | 63.7 |
| 18-24 years | 409.0 | 387.9 | 292.6 | 78.0 | 92.2 | 103.2 | 350.8 | 365.3 | 428.5 |
| 25-44 years | 418.4 | 388.1 | 338.4 | 76.6 | 86.8 | 136.1 | 332.8 | 374.7 | 584.2 |
| 45-64 years | 291.5 | 202.3 | 114.4 | 66.8 | 63.2 | 65.5 | 228.6 | 219.1 | 281.1 |
| 65 years and over | 136.4 | 105.3 | 57.1 | 50.3 | 47.3 | 52.1 | 152.0 | 203.4 | 223.1 |
| White | 214.2 | 182.2 | 137.1 | 57.0 | 61.7 | 90.3 | 206.9 | 226.3 | 278.3 |
| All other | 444.5 | 457.8 | 403.0 | 38.1 | 62.7 | 102.8 | 209.1 | 281.1 | 610.3 |
| Female | | | | | | | | | |
| Total | 124.7 | 111.1 | 98.1 | 67.8 | 63.3 | 81.5 | 278.1 | 265.1 | 335.5 |
| Under 18 years | 27.5 | 16.4 | 20.0 | 24.1 | 23.6 | 64.3 | 70.0 | 74.6 | 80.7 |
| 18-24 years | 143.1 | 145.8 | 141.0 | 69.6 | 67.4 | 60.2 | 354.6 | 304.4 | 458.3 |
| 25-44 years | 215.9 | 182.3 | 168.1 | 101.2 | 91.2 | 107.6 | 495.8 | 422.2 | 498.1 |
| 45-64 years | 180.5 | 151.7 | 100.2 | 92.3 | 78.1 | 84.0 | 324.3 | 328.2 | 345.8 |
| 65 years and over | 60.8 | 59.6 | 46.7 | 62.8 | 58.8 | 68.6 | 182.9 | 190.0 | 321.3 |
| White | 111.2 | 94.1 | 78.1 | 72.5 | 65.0 | 84.5 | 281.7 | 256.4 | 318.6 |
| All other | 212.0 | 212.6 | 207.2 | 37.7 | 52.8 | 65.5 | 254.9 | 316.7 | 428.0 |

¹Nonfederal general hospitals include public and nonpublic facilities.

SOURCES: National Institute of Mental Health: C. A. Taube and S. A. Barrett: Mental Health, United States, 1985. DHHS Pub. No. (ADM) 85-1378. U.S. Government Printing Office, 1985; R. W. Manderscheid and M. A. Sonnenschein: Mental Health, United States, 1990. DHHS Pub. No. (ADM) 90-1708. U.S. Government Printing Office, 1990; Unpublished data.

Table 96. Additions to selected inpatient psychiatric organizations, according to selected primary diagnoses and age: United States, 1975, 1980, and 1986

[Data are based on a sample survey of patients]

| Primary diagnosis and age | State and county mental hospitals | | | Private psychiatric hospitals | | | Nonfederal general hospitals ¹ | | |
|--------------------------------|--------------------------------------|-------|-------|----------------------------------|------|-------|--|-------|-------|
| | 1975 | 1980 | 1986 | 1975 | 1980 | 1986 | 1975 | 1980 | 1986 |
| All diagnoses ² | Rate per 100,000 civilian population | | | | | | | | |
| All ages..... | 182.2 | 163.6 | 136.1 | 61.4 | 62.6 | 86.7 | 243.8 | 250.0 | 331.7 |
| Under 25 years | 104.8 | 101.2 | 82.1 | 37.7 | 43.1 | 71.4 | 146.7 | 152.2 | 183.1 |
| 25-44 years | 314.1 | 282.9 | 251.9 | 89.3 | 89.1 | 121.6 | 416.8 | 399.0 | 540.4 |
| 45-64 years | 233.5 | 175.7 | 107.0 | 80.1 | 71.0 | 75.2 | 278.5 | 276.4 | 314.9 |
| 65 years and over | 91.8 | 78.0 | 50.9 | 57.7 | 54.1 | 61.9 | 170.3 | 195.4 | 281.5 |
| Alcohol related | | | | | | | | | |
| All ages..... | 50.4 | 35.5 | 22.5 | 5.1 | 5.8 | 6.6 | 17.0 | 18.8 | 41.4 |
| Under 25 years | 10.7 | 12.4 | 15.5 | 0.4 | 1.4 | 2.2 | 2.4 | 4.4 | 13.4 |
| 25-44 years | 86.2 | 64.0 | 42.6 | 7.6 | 9.3 | 10.0 | 31.0 | 34.3 | 92.6 |
| 45-64 years | 110.0 | 57.7 | 15.3 | 12.5 | 10.9 | 11.0 | 34.5 | 30.6 | 31.8 |
| 65 years and over | 14.8 | 11.5 | *3.2 | 4.3 | 4.4 | 4.5 | 10.2 | 12.8 | 11.3 |
| Drug related | | | | | | | | | |
| All ages..... | 6.8 | 7.8 | 8.7 | 1.5 | 1.8 | 6.1 | 8.4 | 7.4 | 20.2 |
| Under 25 years | 7.2 | 9.4 | 5.8 | 1.5 | 1.8 | 7.5 | 7.7 | 7.8 | 18.4 |
| 25-44 years | 12.6 | 12.9 | 14.2 | 2.3 | 3.0 | 9.3 | 13.8 | 9.3 | 41.2 |
| 45-64 years | *0.6 | 1.4 | 10.5 | 0.1 | 1.0 | *1.8 | 6.5 | 7.1 | *2.1 |
| 65 years and over | *3.5 | *0.7 | *0.8 | 0.4 | 0.6 | --- | *2.6 | *2.0 | *0.1 |
| Organic disorders ³ | | | | | | | | | |
| All ages..... | 9.6 | 6.8 | 4.3 | 2.5 | 2.2 | 2.0 | 9.0 | 7.4 | 9.8 |
| Under 25 years | 2.2 | 1.2 | *0.2 | 0.7 | 0.5 | *0.5 | 1.1 | *0.8 | 1.7 |
| 25-44 years | 6.4 | 4.7 | 2.6 | 1.1 | 0.9 | *0.3 | 5.4 | 5.6 | 6.1 |
| 45-64 years | 12.2 | 8.1 | 7.3 | 1.7 | 2.7 | *1.5 | 9.3 | 6.9 | 5.7 |
| 65 years and over | 43.3 | 30.0 | 17.2 | 14.5 | 10.8 | 11.7 | 49.3 | 36.4 | 50.7 |
| Affective disorders | | | | | | | | | |
| All ages..... | 21.3 | 22.0 | 22.8 | 26.0 | 26.8 | 41.9 | 91.9 | 79.2 | 121.9 |
| Under 25 years | 7.5 | 9.1 | 9.6 | 9.5 | 13.5 | 28.5 | 35.3 | 32.2 | 49.2 |
| 25-44 years | 40.6 | 36.9 | 43.2 | 39.4 | 38.9 | 63.4 | 160.9 | 123.7 | 176.8 |
| 45-64 years | 29.4 | 32.4 | 25.0 | 43.3 | 36.3 | 38.5 | 135.6 | 113.8 | 147.3 |
| 65 years and over | 16.8 | 14.3 | 7.9 | 29.6 | 29.2 | 33.4 | 78.5 | 81.0 | 166.3 |
| Schizophrenia | | | | | | | | | |
| All ages..... | 61.2 | 62.1 | 49.7 | 13.4 | 13.3 | 9.9 | 58.9 | 59.9 | 63.3 |
| Under 25 years | 35.9 | 36.6 | 18.6 | 11.1 | 10.6 | 5.7 | 42.0 | 38.3 | 30.4 |
| 25-44 years | 125.8 | 125.0 | 107.5 | 23.8 | 22.5 | 18.9 | 118.0 | 114.5 | 118.6 |
| 45-64 years | 63.5 | 54.8 | 35.9 | 11.3 | 11.6 | 8.5 | 50.3 | 53.6 | 68.9 |
| 65 years and over | 9.3 | 13.9 | 18.3 | 2.7 | 3.6 | *1.8 | 5.6 | 16.3 | 14.0 |

¹Nonfederal general hospitals include public and nonpublic facilities.

²Includes all other diagnoses not listed separately.

³Excludes alcohol and drug-related diagnoses.

*Based on five or fewer sample additions.

NOTES: Primary diagnosis categories are based on the then current International Classification of Diseases and Diagnostic and Statistical Manual of Mental Disorders. For a listing of the code numbers, see Appendix II, table X.

SOURCES: National Institute of Mental Health; C. A. Taube and S. A. Barrett: Mental Health, United States, 1985. DHHS Pub. No. (ADM) 85-1378. U.S. Government Printing Office, 1985; R. W. Manderscheid and M. A. Sonnenschein: Mental Health, United States, 1990. DHHS Pub. No. (ADM) 90-1708. U.S. Government Printing Office, 1990; Unpublished data.

Table 97. Persons employed in health service sites: United States, selected years 1970–91

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Site | 1970 ¹ | 1975 | 1980 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 |
|---|-------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Number of persons in thousands | | | | | | | | | | | | |
| All employed civilians | 76,805 | 85,846 | 99,303 | 100,834 | 105,005 | 107,150 | 109,597 | 112,440 | 114,968 | 117,342 | 117,914 | 116,877 |
| All health service sites | 4,246 | 5,945 | 7,339 | 7,874 | 7,934 | 7,910 | 8,129 | 8,478 | 8,781 | 9,110 | 9,447 | 9,817 |
| Offices of physicians | 477 | 618 | 777 | 888 | 896 | 894 | 896 | 950 | 985 | 1,039 | 1,098 | 1,128 |
| Offices of dentists | 222 | 331 | 415 | 441 | 468 | 480 | 497 | 552 | 521 | 560 | 580 | 574 |
| Offices of chiropractors ² | 19 | 30 | 40 | 54 | 61 | 59 | 66 | 72 | 77 | 97 | 90 | 105 |
| Hospitals | 2,690 | 3,441 | 4,036 | 4,348 | 4,288 | 4,269 | 4,368 | 4,444 | 4,520 | 4,568 | 4,690 | 4,839 |
| Nursing and personal care facilities | 509 | 891 | 1,199 | 1,342 | 1,362 | 1,309 | 1,339 | 1,337 | 1,467 | 1,521 | 1,543 | 1,626 |
| Other health service sites | 330 | 634 | 872 | 801 | 859 | 899 | 963 | 1,123 | 1,211 | 1,325 | 1,446 | 1,545 |
| Percent of employed civilians | | | | | | | | | | | | |
| All health service sites | 5.5 | 6.9 | 7.4 | 7.8 | 7.6 | 7.4 | 7.4 | 7.5 | 7.6 | 7.8 | 8.0 | 8.4 |
| Percent distribution | | | | | | | | | | | | |
| All health service sites | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Offices of physicians | 11.2 | 10.4 | 10.6 | 11.3 | 11.3 | 11.3 | 11.0 | 11.2 | 11.2 | 11.4 | 11.6 | 11.5 |
| Offices of dentists | 5.2 | 5.6 | 5.7 | 5.6 | 5.9 | 6.1 | 6.1 | 6.5 | 5.9 | 6.1 | 6.1 | 5.8 |
| Offices of chiropractors ² | 0.4 | 0.5 | 0.5 | 0.7 | 0.8 | 0.7 | 0.8 | 0.8 | 0.9 | 1.1 | 1.0 | 1.1 |
| Hospitals | 63.4 | 57.9 | 55.0 | 55.2 | 54.0 | 54.0 | 53.7 | 52.4 | 51.5 | 50.1 | 49.6 | 49.3 |
| Nursing and personal care facilities | 12.0 | 15.0 | 16.3 | 17.0 | 17.2 | 16.5 | 16.5 | 15.8 | 16.7 | 16.7 | 16.3 | 16.6 |
| Other health service sites | 7.8 | 10.7 | 11.9 | 10.2 | 10.8 | 11.4 | 11.8 | 13.2 | 13.8 | 14.5 | 15.3 | 15.7 |

¹April 1, derived from decennial census; all other data years are annual averages from the Current Population Survey.

²Data for 1980 are from the American Chiropractic Association; data for all other years are from the U.S. Bureau of Labor Statistics.

NOTES: Totals exclude persons in health-related occupations who are working in nonhealth industries, as classified by the U.S. Bureau of the Census, such as pharmacists employed in drugstores, school nurses, and nurses working in private households. Totals include Federal, State, and county health workers. In 1970–82, employed persons were classified according to the industry groups used in the 1970 Census of Population. Beginning in 1983, persons were classified according to the system used in the 1980 Census of Population.

SOURCES: U.S. Bureau of the Census: 1970 Census of Population, occupation by industry. Subject Reports. Final Report PC(2)-7C. Washington. U.S. Government Printing Office, Oct. 1972; U.S. Bureau of Labor Statistics: Labor Force Statistics Derived from the Current Population Survey: A Databook, Vol. I. Washington. U.S. Government Printing Office, Sept. 1982; Employment and Earnings, January 1983–92. Vol. 30, No. 1, Vol. 31, No. 1, Vol. 32, No. 1, Vol. 33, No. 1, Vol. 34, No. 1, Vol. 35, No. 1, Vol. 36, No. 1, Vol. 37, No. 1, Vol. 38, No. 1, and Vol. 39, No. 1. Washington. U.S. Government Printing Office, Jan. 1983–92; American Chiropractic Association: Unpublished data.

Table 98 (page 1 of 2). Active nonfederal physicians per 10,000 civilian population, according to geographic division, State, and primary specialty: United States, 1975, 1985, 1987, and 1990

[Data based on reporting by physicians]

| Geographic division and State | Doctors of medicine ² | | | | | | | | | | | |
|---------------------------------------|----------------------------------|------|------|------|---------------------------|------|------|------|---------------------------|------|------|------|
| | Total physicians ¹ | | | | Patient care ³ | | | | Primary care ⁴ | | | |
| | 1975 | 1985 | 1987 | 1990 | 1975 | 1985 | 1987 | 1990 | 1975 | 1985 | 1987 | 1990 |
| Number per 10,000 civilian population | | | | | | | | | | | | |
| United States | 15.3 | 20.7 | 21.4 | 22.2 | 13.5 | 18.0 | 18.9 | 19.5 | 4.1 | 5.4 | 5.5 | 5.7 |
| New England | 19.1 | 26.7 | 27.7 | 29.0 | 16.9 | 22.9 | 24.2 | 25.5 | 4.6 | 6.2 | 6.2 | 6.6 |
| Maine | 12.8 | 18.7 | 19.3 | 20.1 | 10.7 | 15.6 | 16.0 | 16.6 | 3.8 | 5.4 | 5.4 | 5.6 |
| New Hampshire | 14.3 | 18.1 | 18.5 | 20.1 | 13.1 | 16.7 | 17.2 | 18.6 | 4.6 | 5.6 | 5.7 | 6.2 |
| Vermont | 18.2 | 23.8 | 24.5 | 25.4 | 15.5 | 20.3 | 21.5 | 22.4 | 5.2 | 6.5 | 6.6 | 7.1 |
| Massachusetts | 20.8 | 30.2 | 31.2 | 32.8 | 18.3 | 25.4 | 27.0 | 28.6 | 4.7 | 6.4 | 6.4 | 6.7 |
| Rhode Island | 17.8 | 23.3 | 24.9 | 26.0 | 16.1 | 20.2 | 21.8 | 22.6 | 4.4 | 5.5 | 5.6 | 5.8 |
| Connecticut | 19.8 | 27.6 | 29.0 | 30.1 | 17.7 | 24.3 | 25.7 | 26.8 | 4.7 | 6.4 | 6.5 | 6.9 |
| Middle Atlantic | 19.5 | 26.1 | 27.3 | 28.4 | 17.0 | 22.2 | 23.6 | 24.5 | 4.5 | 5.9 | 6.0 | 6.3 |
| New York | 22.7 | 29.0 | 30.1 | 31.1 | 20.2 | 25.2 | 26.9 | 27.6 | 5.1 | 6.3 | 6.3 | 6.7 |
| New Jersey | 16.2 | 23.4 | 24.5 | 25.9 | 14.0 | 19.8 | 21.1 | 22.2 | 4.1 | 5.5 | 5.8 | 6.1 |
| Pennsylvania | 16.6 | 23.6 | 24.8 | 26.0 | 13.9 | 19.2 | 20.4 | 21.3 | 4.0 | 5.4 | 5.5 | 5.8 |
| East North Central | 13.9 | 19.3 | 19.9 | 20.6 | 12.0 | 16.4 | 17.1 | 17.6 | 3.7 | 5.0 | 5.1 | 5.2 |
| Ohio | 14.1 | 19.9 | 20.6 | 21.4 | 12.2 | 16.8 | 17.5 | 18.0 | 3.7 | 4.8 | 4.8 | 5.0 |
| Indiana | 10.6 | 14.7 | 15.4 | 16.0 | 9.6 | 13.2 | 14.0 | 14.6 | 3.8 | 4.6 | 4.7 | 5.0 |
| Illinois | 14.5 | 20.5 | 21.1 | 21.6 | 13.1 | 18.2 | 18.9 | 19.3 | 4.1 | 5.5 | 5.7 | 5.7 |
| Michigan | 15.4 | 20.8 | 21.3 | 22.1 | 12.0 | 16.0 | 16.4 | 16.9 | 3.2 | 4.5 | 4.4 | 4.5 |
| Wisconsin | 12.5 | 17.7 | 18.4 | 19.1 | 11.4 | 15.9 | 16.7 | 17.4 | 4.0 | 5.4 | 5.6 | 5.9 |
| West North Central | 13.3 | 18.3 | 19.1 | 19.8 | 11.4 | 15.6 | 16.4 | 17.1 | 3.8 | 5.2 | 5.3 | 5.5 |
| Minnesota | 14.9 | 20.5 | 21.1 | 22.0 | 13.7 | 18.5 | 19.3 | 20.1 | 4.6 | 6.5 | 6.5 | 6.9 |
| Iowa | 11.4 | 15.6 | 16.5 | 17.2 | 9.4 | 12.4 | 13.1 | 13.8 | 3.5 | 4.3 | 4.4 | 4.5 |
| Missouri | 15.0 | 20.5 | 21.3 | 22.0 | 11.6 | 16.3 | 17.1 | 17.7 | 3.3 | 4.7 | 4.6 | 4.8 |
| North Dakota | 9.7 | 15.8 | 16.7 | 17.0 | 9.2 | 14.9 | 15.8 | 16.0 | 4.1 | 5.8 | 6.0 | 6.1 |
| South Dakota | 8.2 | 13.4 | 14.0 | 14.2 | 7.7 | 12.3 | 13.0 | 13.2 | 3.4 | 5.0 | 5.6 | 5.8 |
| Nebraska | 12.1 | 15.7 | 16.7 | 17.0 | 10.9 | 14.4 | 15.5 | 15.9 | 4.2 | 5.3 | 5.4 | 5.7 |
| Kansas | 12.8 | 17.3 | 17.8 | 18.6 | 11.2 | 15.1 | 15.7 | 16.3 | 3.9 | 5.2 | 5.1 | 5.3 |
| South Atlantic | 14.0 | 19.7 | 20.8 | 21.7 | 12.6 | 17.6 | 18.6 | 19.3 | 3.7 | 5.2 | 5.4 | 5.6 |
| Delaware | 14.3 | 19.7 | 20.2 | 21.3 | 12.7 | 17.1 | 17.7 | 18.3 | 3.8 | 4.7 | 4.7 | 5.0 |
| Maryland | 18.6 | 30.4 | 31.5 | 32.5 | 16.5 | 24.9 | 26.7 | 27.8 | 4.2 | 6.5 | 6.8 | 7.2 |
| District of Columbia | 39.6 | 55.3 | 57.2 | 60.0 | 34.6 | 45.6 | 47.5 | 50.1 | 7.2 | 10.3 | 10.6 | 11.1 |
| Virginia | 12.9 | 19.5 | 20.1 | 21.2 | 11.9 | 17.8 | 18.6 | 19.5 | 3.8 | 5.4 | 5.6 | 5.8 |
| West Virginia | 11.0 | 16.3 | 17.2 | 17.7 | 10.0 | 14.6 | 15.2 | 15.4 | 3.3 | 4.4 | 4.6 | 4.8 |
| North Carolina | 11.7 | 16.9 | 17.7 | 18.9 | 10.6 | 15.0 | 16.1 | 17.2 | 3.5 | 4.7 | 4.9 | 5.2 |
| South Carolina | 10.0 | 14.7 | 15.5 | 16.0 | 9.3 | 13.6 | 14.5 | 15.0 | 3.3 | 4.5 | 4.7 | 4.8 |
| Georgia | 11.5 | 16.2 | 16.8 | 17.6 | 10.6 | 14.7 | 15.4 | 16.2 | 3.3 | 4.3 | 4.4 | 4.7 |
| Florida | 15.2 | 20.2 | 21.1 | 21.6 | 13.4 | 17.8 | 18.7 | 19.2 | 3.9 | 5.3 | 5.6 | 5.7 |
| East South Central | 10.5 | 15.0 | 15.9 | 16.8 | 9.7 | 14.0 | 14.9 | 15.7 | 3.2 | 4.5 | 4.7 | 4.9 |
| Kentucky | 10.9 | 15.1 | 16.0 | 16.8 | 10.1 | 13.9 | 15.1 | 15.7 | 3.6 | 4.8 | 5.0 | 5.2 |
| Tennessee | 12.4 | 17.7 | 18.6 | 19.5 | 11.3 | 16.2 | 17.3 | 18.1 | 3.2 | 4.7 | 4.9 | 5.2 |
| Alabama | 9.2 | 14.2 | 15.0 | 15.7 | 8.6 | 13.1 | 14.0 | 14.6 | 3.0 | 4.2 | 4.4 | 4.7 |
| Mississippi | 8.4 | 11.8 | 12.5 | 13.3 | 8.0 | 11.1 | 11.9 | 12.6 | 3.1 | 4.2 | 4.3 | 4.4 |
| West South Central | 11.9 | 16.4 | 17.1 | 17.8 | 10.5 | 14.5 | 15.2 | 15.8 | 3.5 | 4.5 | 4.5 | 4.7 |
| Arkansas | 9.1 | 13.8 | 14.4 | 15.1 | 8.5 | 12.8 | 13.5 | 14.1 | 3.4 | 4.8 | 4.9 | 5.1 |
| Louisiana | 11.4 | 17.3 | 17.9 | 18.6 | 10.5 | 16.1 | 16.8 | 17.4 | 3.3 | 4.5 | 4.5 | 4.8 |
| Oklahoma | 11.6 | 16.1 | 16.7 | 17.1 | 9.4 | 12.9 | 13.4 | 13.6 | 3.2 | 4.0 | 4.4 | 4.5 |
| Texas | 12.5 | 16.8 | 17.3 | 18.1 | 11.0 | 14.7 | 15.3 | 16.0 | 3.6 | 4.5 | 4.5 | 4.7 |
| Mountain | 14.3 | 17.8 | 18.5 | 19.3 | 12.6 | 15.7 | 16.3 | 17.0 | 4.1 | 5.0 | 5.2 | 5.3 |
| Montana | 10.6 | 14.0 | 15.2 | 16.0 | 10.1 | 13.2 | 14.4 | 15.2 | 4.5 | 5.4 | 5.7 | 6.0 |
| Idaho | 9.5 | 12.1 | 12.2 | 12.7 | 8.9 | 11.4 | 11.5 | 12.0 | 4.0 | 4.8 | 4.8 | 4.9 |
| Wyoming | 9.5 | 12.9 | 13.3 | 13.9 | 8.9 | 12.0 | 12.6 | 13.1 | 4.1 | 4.6 | 5.1 | 5.2 |
| Colorado | 17.3 | 20.7 | 21.0 | 22.1 | 15.0 | 17.7 | 18.3 | 19.2 | 4.6 | 5.6 | 5.6 | 5.9 |
| New Mexico | 12.2 | 17.0 | 17.7 | 18.9 | 10.1 | 14.7 | 15.5 | 16.7 | 3.4 | 4.8 | 5.2 | 5.4 |
| Arizona | 16.7 | 20.2 | 20.9 | 21.5 | 14.1 | 17.1 | 17.8 | 18.4 | 4.2 | 5.1 | 5.2 | 5.4 |
| Utah | 14.1 | 17.2 | 17.7 | 18.5 | 13.0 | 15.5 | 16.1 | 16.9 | 3.8 | 4.4 | 4.5 | 4.6 |
| Nevada | 11.9 | 16.0 | 16.1 | 16.6 | 10.9 | 14.5 | 14.7 | 14.9 | 3.6 | 4.6 | 4.7 | 4.7 |

See footnotes at end of table.

Table 98 (page 2 of 2). Active nonfederal physicians per 10,000 civilian population, according to geographic division, State, and primary specialty: United States, 1975, 1985, 1987, and 1990

[Data based on reporting by physicians]

| Geographic division and State | Doctors of medicine ² | | | | | | | | | | | |
|---------------------------------------|----------------------------------|------|------|------|---------------------------|------|------|------|---------------------------|------|------|------|
| | Total physicians ¹ | | | | Patient care ³ | | | | Primary care ⁴ | | | |
| | 1975 | 1985 | 1987 | 1990 | 1975 | 1985 | 1987 | 1990 | 1975 | 1985 | 1987 | 1990 |
| Number per 10,000 civilian population | | | | | | | | | | | | |
| Pacific | 17.9 | 22.5 | 22.9 | 23.4 | 16.3 | 20.5 | 20.9 | 21.3 | 5.2 | 6.6 | 6.5 | 6.5 |
| Washington | 15.3 | 20.2 | 20.8 | 21.5 | 13.6 | 17.9 | 18.5 | 19.3 | 4.7 | 6.3 | 6.4 | 6.6 |
| Oregon | 15.6 | 19.7 | 20.0 | 21.1 | 13.8 | 17.6 | 18.1 | 19.1 | 4.6 | 6.1 | 6.0 | 6.3 |
| California | 18.8 | 23.7 | 23.8 | 24.1 | 17.3 | 21.5 | 21.7 | 21.9 | 5.5 | 6.7 | 6.6 | 6.5 |
| Alaska | 8.4 | 13.0 | 13.8 | 14.8 | 7.8 | 12.1 | 12.7 | 13.7 | 3.5 | 5.6 | 5.7 | 5.7 |
| Hawaii | 16.2 | 21.5 | 22.5 | 23.8 | 14.7 | 19.8 | 20.7 | 21.9 | 4.9 | 7.0 | 7.1 | 7.5 |

¹Includes active nonfederal doctors of medicine and doctors of osteopathy in all other specialties not shown separately.

²Excludes doctors of osteopathy; States with large numbers are Florida, Michigan, Missouri, New Jersey, Ohio, Pennsylvania, and Texas. Specialty information based on the physician's self-designated primary area of practice.

³Excludes doctors of medicine in medical teaching, administration, research, and other nonpatient care activities.

⁴Includes doctors of medicine in patient care office-based general practice and family practice, internal medicine, and pediatrics.

NOTES: Starting in 1989 data for doctors of medicine are as of January 1; in earlier years these data are as of December 31. See Appendix II for physician definitions.

SOURCES: Compiled by Health Resources and Services Administration, Bureau of Health Professions based on data from the American Medical Association Physician Distribution and Licensure in the U.S., 1975, Physician Characteristics and Distribution in the U.S., 1986, 1989, and 1992 Editions; American Osteopathic Association: 1975-76 Yearbook and Directory of Osteopathic Physicians, 1985-86 Yearbook and Directory of Osteopathic Physicians, and 1987-88 Yearbook and Directory of Osteopathic Physicians; American Association of Colleges of Osteopathic Medicine: Annual Statistical Report, 1968 and 1990.

Table 99. Active physicians, according to type of physician, and number per 10,000 population: United States and outlying U.S. areas, selected years 1950–90 and projections for year 2000

[Data are based on reporting by physicians and medical schools]

| Year | All active physicians | Doctors of medicine | Doctors of osteopathy | Active physicians per 10,000 population |
|----------------------|-----------------------|---------------------|-----------------------|---|
| Number of physicians | | | | |
| 1950..... | 219,900 | 209,000 | 10,900 | 14.1 |
| 1960..... | 259,500 | 247,300 | 12,200 | 14.0 |
| 1970..... | 326,500 | 314,200 | 12,300 | 15.6 |
| 1971..... | 337,400 | 325,000 | 12,400 | 16.1 |
| 1972..... | 348,300 | 335,500 | 12,800 | 16.4 |
| 1973..... | 355,700 | 342,500 | 13,200 | 16.4 |
| 1974..... | 370,000 | 356,400 | 13,600 | 16.9 |
| 1975..... | 384,500 | 370,400 | 14,100 | 17.4 |
| 1976..... | 399,500 | 385,000 | 14,500 | 17.9 |
| 1977..... | 405,900 | 390,800 | 15,100 | 18.0 |
| 1978..... | 424,000 | 408,300 | 15,700 | 18.6 |
| 1979..... | 440,400 | 424,000 | 16,400 | 19.1 |
| 1980..... | 457,500 | 440,400 | 17,100 | 19.7 |
| 1981..... | 466,700 | 448,700 | 18,000 | 20.0 |
| 1982..... | 483,700 | 465,000 | 18,700 | 20.5 |
| 1983..... | 501,200 | 481,500 | 19,700 | 21.0 |
| 1984..... | --- | --- | 20,800 | --- |
| 1985..... | 534,800 | 512,900 | 21,900 | 22.0 |
| 1986..... | 544,100 | 520,900 | 23,200 | 22.2 |
| 1987..... | 560,300 | 536,200 | 24,100 | 22.6 |
| 1988..... | --- | --- | 25,300 | --- |
| 1989..... | 577,200 | 550,700 | 26,500 | 23.3 |
| 1990..... | 589,500 | 561,400 | 28,100 | 23.4 |
| Projections | | | | |
| 2000..... | 725,900 | 684,900 | 41,000 | 27.1 |

NOTES: Starting in 1989 data for doctors of medicine are as of January 1; in earlier years these data are as of December 31. Population estimates include residents in the United States, Puerto Rico, and other U.S. outlying areas; U.S. citizens in foreign countries; and the Armed Forces in the United States and abroad. For the year 2000, the Series II projections of the total population from the U.S. Bureau of the Census are used. Estimation and projection methods are from the Bureau of Health Professions. See Appendix II for physician definitions. The numbers for doctors of medicine differ from American Medical Association figures because physicians not classified by activity status and whose addresses are unknown are included in this table.

SOURCES: Bureau of Health Professions: Sixth Report to the President and Congress on the Status of Health Personnel in the United States. Health Resources and Services Administration. DHHS Pub. No. HRS-P-OD-88-1, Rockville, Md., 1988, and unpublished data; American Medical Association: data from annual surveys and unpublished data.

Table 100. Physicians, according to activity and place of medical education: United States and outlying U.S. areas, selected years 1970–90

[Data are based on reporting by physicians]

| Activity and place of medical education | 1970 | 1975 | 1980 | 1985 | 1987 | 1989 | 1990 |
|--|---------|---------|---------|---------|---------|---------|---------|
| Number of physicians | | | | | | | |
| Doctors of medicine | 334,028 | 393,742 | 467,679 | 552,716 | 585,597 | 600,789 | 615,421 |
| Professionally active | 310,845 | 340,280 | 414,916 | 497,140 | 521,328 | 536,755 | 547,310 |
| Place of medical education: | | | | | | | |
| U.S. medical graduates | 256,427 | --- | 333,325 | 392,007 | 410,300 | 423,172 | 432,884 |
| International medical graduates ¹ | 54,418 | --- | 81,591 | 105,133 | 111,028 | 113,583 | 114,426 |
| Activity ² : | | | | | | | |
| Nonfederal | 281,344 | 312,089 | 397,129 | 475,573 | 499,582 | 516,396 | 526,835 |
| Patient care | 255,027 | 287,837 | 361,915 | 431,527 | 453,230 | 468,902 | 479,547 |
| Office-based practice | 188,924 | 213,334 | 271,268 | 329,041 | 337,507 | 350,066 | 359,932 |
| General and family practice | 50,816 | 46,347 | 47,772 | 53,862 | 55,117 | 56,318 | 57,571 |
| Cardiovascular diseases | 3,882 | 5,046 | 6,725 | 9,054 | 9,925 | 10,235 | 10,670 |
| Dermatology | 2,932 | 3,442 | 4,372 | 5,325 | 5,532 | 5,721 | 5,996 |
| Gastroenterology | 1,112 | 1,696 | 2,735 | 4,135 | 4,764 | 4,942 | 5,200 |
| Internal medicine | 22,950 | 28,188 | 40,514 | 52,712 | 55,452 | 56,946 | 57,799 |
| Pediatrics | 10,310 | 12,687 | 17,436 | 22,392 | 23,370 | 24,692 | 26,494 |
| Pulmonary diseases | 785 | 1,166 | 2,040 | 3,035 | 3,474 | 3,578 | 3,659 |
| General surgery | 18,068 | 19,710 | 22,409 | 24,708 | 23,689 | 24,737 | 24,498 |
| Obstetrics and gynecology | 13,847 | 15,613 | 19,503 | 23,525 | 24,271 | 25,161 | 25,475 |
| Ophthalmology | 7,627 | 8,795 | 10,598 | 12,212 | 12,538 | 12,847 | 13,055 |
| Orthopedic surgery | 6,533 | 8,148 | 10,719 | 13,033 | 13,520 | 14,071 | 14,187 |
| Otolaryngology | 3,914 | 4,297 | 5,262 | 5,751 | 6,022 | 6,223 | 6,360 |
| Plastic surgery | 1,166 | 1,706 | 2,437 | 3,299 | 3,520 | 3,648 | 3,835 |
| Urological surgery | 4,273 | 5,025 | 6,222 | 7,081 | 7,182 | 7,338 | 7,392 |
| Anesthesiology | 7,369 | 8,970 | 11,336 | 15,285 | 15,986 | 16,720 | 17,789 |
| Diagnostic radiology | 896 | 1,978 | 4,190 | 7,735 | 8,557 | 9,012 | 9,806 |
| Emergency medicine | --- | --- | --- | --- | 7,564 | 8,041 | 8,402 |
| Neurology | 1,192 | 1,862 | 3,245 | 4,691 | 5,087 | 5,374 | 5,587 |
| Pathology, anatomical/clinical | 2,993 | 4,195 | 5,952 | 6,877 | 6,747 | 7,022 | 7,269 |
| Psychiatry | 10,078 | 12,173 | 15,946 | 18,521 | 18,695 | 19,625 | 20,048 |
| Radiology | 5,781 | 6,970 | 7,791 | 7,355 | 6,149 | 6,164 | 6,056 |
| Other specialty | 12,400 | 15,320 | 24,064 | 28,453 | 20,346 | 21,651 | 22,784 |
| Hospital-based practice | 66,103 | 74,503 | 90,647 | 102,486 | 115,723 | 118,836 | 119,615 |
| Residents and interns | 45,840 | 53,527 | 59,615 | 72,159 | 79,483 | 80,019 | 81,664 |
| Full-time hospital staff | 20,263 | 20,976 | 31,032 | 30,327 | 36,240 | 38,817 | 37,951 |
| Other professional activity ³ | 26,317 | 24,252 | 35,214 | 44,046 | 46,352 | 47,494 | 47,288 |
| Federal | 29,501 | 28,191 | 17,787 | 21,567 | 21,746 | 20,359 | 20,475 |
| Patient care | 23,508 | 24,100 | 14,597 | 17,293 | 16,902 | 15,570 | 15,632 |
| Office-based practice | 3,515 | 2,095 | 732 | 1,156 | 1,149 | 1,135 | 1,063 |
| Hospital-based practice | 19,993 | 22,005 | 13,865 | 16,137 | 15,753 | 14,435 | 14,569 |
| Residents and interns | 5,388 | 4,275 | 2,427 | 3,252 | 2,717 | 2,084 | 1,725 |
| Full-time hospital staff | 14,605 | 17,730 | 11,438 | 12,885 | 13,036 | 12,351 | 12,844 |
| Other professional activity ³ | 5,993 | 4,091 | 3,190 | 4,274 | 4,844 | 4,789 | 4,843 |
| Inactive | 19,621 | 21,449 | 25,744 | 38,646 | 48,042 | 48,804 | 52,653 |
| Not classified ⁴ | 358 | 26,145 | 20,629 | 13,950 | 13,364 | 12,405 | 12,678 |
| Unknown address | 3,204 | 5,868 | 6,390 | 2,980 | 2,863 | 2,825 | 2,780 |

¹International medical graduates received their medical education in schools outside the United States and Canada.

²Specialty information based on the physician's self-designated primary area of practice.

³Includes medical teaching, administration, research, clinical fellows, and other.

⁴Not classified established in 1970; however, complete data not available until 1972.

NOTES: Starting in 1989 data for doctors of medicine are as of January 1; in earlier years these data are as of December 31. See Appendix II for physician definitions.

SOURCES: Haug, J. N., Roback, G. A., and Martin, B. C.: Distribution of Physicians in the United States, 1970. Chicago. American Medical Association, 1971; Goodman, L. J., and Mason, H. R.: Physician Distribution and Medical Licensure in the U.S., 1975. Chicago. American Medical Association, 1976; Bidese, C. M., and Danais, D. G.: Physician Characteristics and Distribution in the U.S., 1981. Chicago. American Medical Association, 1982; Roback, G. A., Mead, D., and Randolph, L. L.: Physician Characteristics and Distribution in the U.S., 1986. Chicago. American Medical Association, 1986; Roback, G. A., Randolph, L. L., and Seidman, B.: Physician Characteristics and Distribution in the U.S., 1989; 1990; 1992. Chicago. American Medical Association, 1989; 1990; 1992. (Copyrights 1971, 1976, 1982, 1986, 1989, 1990, and 1992: Used with the permission of the American Medical Association.)

Table 101. Active health personnel and number per 100,000 population, according to occupation and geographic region: United States, 1970, 1980, and 1990

[Data are compiled by the Bureau of Health Professions]

| Year and occupation | Number of active health personnel | United States | Geographic region | | | |
|--|-----------------------------------|---------------|-------------------|---------|-------|--|
| | | | Northeast | Midwest | South | West |
| 1970 | | | | | | Number per 100,000 population ¹ |
| Physicians | --- | --- | --- | --- | --- | --- |
| Federal ² | --- | --- | --- | --- | --- | --- |
| Nonfederal | 290,862 | 142.7 | 185.0 | 127.5 | 114.8 | 158.2 |
| Doctors of medicine ^{2,3} | 279,212 | 137.0 | 178.7 | 118.2 | 111.5 | 154.8 |
| Doctors of osteopathy | 11,650 | 5.7 | 6.3 | 9.3 | 3.3 | 3.4 |
| Dentists ⁴ | 95,700 | 47.0 | 58.9 | 46.3 | 35.3 | 54.9 |
| Optometrists | 18,400 | 9.0 | 9.7 | 10.3 | 6.6 | 10.5 |
| Pharmacists | 112,570 | 55.4 | 60.1 | 57.5 | 50.6 | 52.9 |
| Podiatrists | 7,110 | 3.5 | 6.0 | 3.6 | 1.6 | 3.0 |
| Registered nurses | 750,000 | 368.9 | 491.2 | 367.5 | 281.8 | 355.9 |
| Veterinarians | 25,900 | 12.7 | 8.3 | 16.1 | 11.8 | 15.0 |
| 1980 | | | | | | |
| Physicians | 427,122 | 189.8 | --- | --- | --- | --- |
| Federal ² | 17,642 | 7.8 | --- | --- | --- | --- |
| Doctors of medicine ^{2,3} | 16,585 | 7.4 | --- | --- | --- | --- |
| Doctors of osteopathy | 1,057 | 0.5 | --- | --- | --- | --- |
| Nonfederal | 409,480 | 182.0 | 224.5 | 165.2 | 157.0 | 200.0 |
| Doctors of medicine ^{2,3} | 393,407 | 174.9 | 216.1 | 153.3 | 152.8 | 195.8 |
| Doctors of osteopathy | 16,073 | 7.1 | 8.4 | 11.9 | 4.2 | 4.2 |
| Dentists ⁴ | 121,240 | 53.5 | 66.2 | 52.7 | 42.6 | 59.2 |
| Optometrists | 22,330 | 9.8 | 9.9 | 10.9 | 7.7 | 11.6 |
| Pharmacists | 142,780 | 62.5 | 66.5 | 67.8 | 62.1 | 51.8 |
| Podiatrists | 8,880 | 4.0 | 6.3 | 3.9 | 2.5 | 4.1 |
| Registered nurses | 1,272,900 | 560.0 | 736.0 | 583.6 | 443.4 | 533.7 |
| Associate and diploma | 908,300 | 399.9 | 536.0 | 429.2 | 316.5 | 351.1 |
| Baccalaureate | 297,300 | 130.9 | 161.0 | 127.8 | 103.8 | 148.1 |
| Masters and doctorate | 67,300 | 29.6 | 39.0 | 26.7 | 23.0 | 34.6 |
| Veterinarians | 36,000 | 16.3 | 10.8 | 19.9 | 16.0 | 18.5 |
| 1990 | | | | | | |
| Physicians | 567,611 | 230.2 | --- | --- | --- | --- |
| Federal ² | 20,784 | 8.4 | --- | --- | --- | --- |
| Doctors of medicine ^{2,3} | 19,166 | 7.7 | --- | --- | --- | --- |
| Doctors of osteopathy | 1,618 | 0.7 | --- | --- | --- | --- |
| Nonfederal | 546,827 | 221.8 | 285.5 | 203.9 | 195.5 | 223.3 |
| Doctors of medicine ^{2,3} | 520,451 | 211.1 | 271.6 | 186.8 | 188.6 | 216.9 |
| Doctors of osteopathy | 26,376 | 10.7 | 13.9 | 17.1 | 6.9 | 6.3 |
| Dentists ⁴ | 145,500 | 58.4 | 70.9 | 58.0 | 48.5 | 62.7 |
| Optometrists | 26,000 | 10.4 | --- | --- | --- | --- |
| Pharmacists | 161,900 | 64.4 | --- | --- | --- | --- |
| Podiatrists | 12,000 | 4.8 | --- | --- | --- | --- |
| Registered nurses | 1,715,600 | 690.0 | 859.1 | 738.7 | 583.7 | 622.3 |
| Associate and diploma | 1,077,800 | 433.4 | 536.7 | 464.4 | 379.5 | 367.4 |
| Baccalaureate | 517,800 | 208.2 | 256.6 | 223.4 | 166.1 | 208.8 |
| Masters and doctorate | 120,000 | 48.3 | 65.7 | 51.0 | 38.0 | 45.9 |
| Veterinarians | 51,000 | 20.4 | --- | --- | --- | --- |

¹Ratios for physicians and dentists are based on civilian population; ratios for all other health occupations are based on resident population.

²Starting in 1989 data for doctors of medicine are as of January 1; in earlier years these data are as of December 31.

³Excludes physicians not classified according to activity status from the number of active health personnel.

⁴Excludes dentists in military service.

NOTE: See Appendix II for physician definitions.

SOURCES: Division of Health Professions Analysis, Bureau of Health Professions: Supply and Characteristics of Selected Health Personnel. DHHS Pub. No. (HRA) 81-20. Health Resources Administration. Hyattsville, Md., June 1981 and Eighth Report to the President and Congress on the Status of Health Personnel in the United States. Health Resources and Services Administration. DHHS Pub. No. HRS-P-OD-92-1, Rockville, Md., 1991; American Medical Association: Physician Characteristics and Distribution in the U.S., 1981 edition; 1992 edition. Chicago 1981; 1992; unpublished data; American Osteopathic Association: 1980-81 Yearbook and Directory of Osteopathic Physicians. Chicago, 1980. American Association of Colleges of Osteopathic Medicine: Annual Statistical Report 1990. Rockville, Md., 1990; unpublished data.

Table 102. Full-time equivalent employment in selected occupations for community hospitals: United States, 1981 and 1986–90

[Data are based on reporting by a census of registered hospitals]

| Occupation | 1981 | 1986 | 1988 | 1989 | 1990 | Average annual percent change | |
|---|-----------|-----------|-----------|-----------|-----------|-------------------------------|---------|
| | | | | | | 1981–86 | 1986–90 |
| All hospital personnel ¹ | 3,069,955 | 3,055,071 | 3,231,745 | 3,328,509 | 3,439,820 | -0.1 | 3.0 |
| Administrators and assistant administrators | 26,734 | 32,990 | 35,715 | 37,269 | 37,015 | 4.3 | 2.9 |
| Registered nurses | 629,354 | 736,253 | 770,613 | 791,521 | 809,920 | 3.2 | 2.4 |
| Licensed practical nurses | 234,226 | 174,154 | 170,637 | 172,143 | 167,945 | -5.8 | -0.9 |
| Ancillary nursing personnel | 280,614 | 226,821 | 244,297 | 252,500 | 268,113 | -4.2 | 4.3 |
| Medical record administrators and technicians | 38,186 | 44,057 | 46,937 | 47,834 | 50,723 | 2.9 | 3.6 |
| Licensed pharmacists and pharmacy technicians | 47,053 | 54,679 | 58,759 | 60,984 | 64,004 | 3.0 | 4.0 |
| Medical technologists and other laboratory personnel | 147,451 | 145,622 | 148,635 | 152,122 | 157,880 | -0.2 | 2.0 |
| Dietitians and dietetic technicians | 40,192 | 34,241 | 35,126 | 34,416 | 35,553 | -3.2 | 0.9 |
| Radiologic service personnel | 90,738 | 94,683 | 101,098 | 104,494 | 111,298 | 0.9 | 4.1 |
| Occupational therapists and recreational therapists | 8,481 | 11,210 | 13,133 | 13,604 | 15,144 | 5.7 | 7.8 |
| Physical therapists and physical therapy assistants and aides | 27,675 | 30,216 | 32,680 | 33,104 | 35,455 | 1.8 | 4.1 |
| Speech pathologists and audiologists | 2,463 | 3,776 | 4,346 | 4,608 | 4,909 | 8.9 | 6.8 |
| Respiratory therapists and respiratory therapy technicians | 47,312 | 52,751 | 55,690 | 57,355 | 60,403 | 2.2 | 3.4 |
| Medical social workers | 13,915 | 16,042 | 18,685 | 19,698 | 21,389 | 2.9 | 7.5 |
| Total trainee personnel ² | 66,906 | 67,366 | 67,587 | 68,641 | 69,111 | 0.1 | 0.6 |

¹Includes occupational categories not shown.

²This category is primarily composed of medical residents.

SOURCE: Compiled by the Office of Data Analysis and Management, Bureau of Health Professions, Health Resources and Services Administration, from the American Hospital Association's 1981, 1986, 1988, 1989, and 1990 Annual Survey of Hospitals.

Table 103 (page 1 of 2). Full-time equivalent patient care staff in mental health organizations, according to type of organization and staff discipline: United States, selected years 1984–88

[Data are based on inventories of mental health organizations]

| Organization and discipline | 1984 | 1986 | 1988 | 1984 | 1986 | 1988 |
|--|---------|---------|---------|----------------------|-------|-------|
| All organizations | | Number | | Percent distribution | | |
| All patient care staff | 313,243 | 346,630 | 381,216 | 100.0 | 100.0 | 100.0 |
| Professional patient care staff | 202,474 | 232,481 | 248,430 | 64.6 | 67.1 | 65.2 |
| Psychiatrists | 18,482 | 17,874 | 18,132 | 5.9 | 5.2 | 4.8 |
| Psychologists | 21,052 | 20,210 | 23,131 | 6.7 | 5.8 | 6.1 |
| Social workers | 36,397 | 40,951 | 46,218 | 11.6 | 11.8 | 12.1 |
| Registered nurses | 54,406 | 66,180 | 73,387 | 17.4 | 19.1 | 19.3 |
| Other professional staff ¹ | 72,137 | 87,266 | 87,562 | 23.0 | 25.2 | 23.0 |
| Other mental health workers | 110,769 | 114,149 | 132,786 | 35.4 | 32.9 | 34.8 |
| State and county mental hospitals | | | | | | |
| All patient care staff | 117,630 | 119,073 | 116,527 | 100.0 | 100.0 | 100.0 |
| Professional patient care staff | 51,290 | 54,853 | 49,184 | 43.6 | 46.1 | 42.2 |
| Psychiatrists | 4,108 | 3,762 | 3,830 | 3.5 | 3.2 | 3.3 |
| Psychologists | 3,239 | 3,412 | 3,536 | 2.8 | 2.9 | 3.0 |
| Social workers | 6,175 | 6,238 | 7,164 | 5.2 | 5.2 | 6.1 |
| Registered nurses | 16,051 | 19,425 | 20,292 | 13.6 | 16.3 | 17.4 |
| Other professional staff ¹ | 21,717 | 22,016 | 14,362 | 18.5 | 18.5 | 12.3 |
| Other mental health workers | 66,340 | 64,220 | 67,343 | 56.4 | 53.9 | 57.8 |
| Private psychiatric hospitals | | | | | | |
| All patient care staff | 26,359 | 35,480 | 55,658 | 100.0 | 100.0 | 100.0 |
| Professional patient care staff | 19,524 | 27,246 | 42,965 | 74.1 | 76.8 | 77.2 |
| Psychiatrists | 1,447 | 1,554 | 1,843 | 5.5 | 4.4 | 3.3 |
| Psychologists | 1,461 | 1,557 | 1,833 | 5.5 | 4.4 | 3.3 |
| Social workers | 2,179 | 2,893 | 4,067 | 8.3 | 8.2 | 7.3 |
| Registered nurses | 6,818 | 10,147 | 14,710 | 25.9 | 28.6 | 26.4 |
| Other professional staff ¹ | 7,619 | 11,095 | 20,512 | 28.9 | 31.3 | 36.9 |
| Other mental health workers | 6,835 | 8,234 | 12,693 | 25.9 | 23.2 | 22.8 |
| Nonfederal general hospitals' psychiatric services | | | | | | |
| All patient care staff | 59,848 | 61,148 | 62,066 | 100.0 | 100.0 | 100.0 |
| Professional patient care staff | 46,335 | 50,233 | 48,490 | 77.4 | 82.1 | 78.1 |
| Psychiatrists | 6,679 | 6,009 | 5,276 | 11.2 | 9.8 | 8.5 |
| Psychologists | 3,283 | 2,983 | 3,707 | 5.5 | 4.9 | 6.0 |
| Social workers | 4,898 | 5,634 | 5,568 | 8.2 | 9.2 | 9.0 |
| Registered nurses | 20,454 | 23,454 | 24,490 | 34.2 | 38.4 | 39.5 |
| Other professional staff ¹ | 11,021 | 12,153 | 9,449 | 18.4 | 19.9 | 15.2 |
| Other mental health workers | 13,513 | 10,915 | 13,576 | 22.6 | 17.9 | 21.9 |
| Veterans Administration psychiatric services | | | | | | |
| All patient care staff | 22,948 | 23,559 | 22,074 | 100.0 | 100.0 | 100.0 |
| Professional patient care staff | 16,265 | 17,782 | 15,061 | 70.9 | 75.5 | 68.2 |
| Psychiatrists | 2,463 | 2,245 | 2,132 | 10.7 | 9.5 | 9.7 |
| Psychologists | 1,247 | 1,439 | 1,340 | 5.4 | 6.1 | 6.1 |
| Social workers | 1,545 | 1,680 | 1,424 | 6.7 | 7.1 | 6.5 |
| Registered nurses | 5,699 | 6,761 | 6,514 | 24.8 | 28.7 | 29.5 |
| Other professional staff ¹ | 5,311 | 5,657 | 3,651 | 23.1 | 24.0 | 16.5 |
| Other mental health workers | 6,683 | 5,777 | 7,013 | 29.1 | 24.5 | 31.8 |
| Residential treatment centers for emotionally disturbed children | | | | | | |
| All patient care staff | 15,297 | 25,146 | 30,139 | 100.0 | 100.0 | 100.0 |
| Professional patient care staff | 10,551 | 17,599 | 19,688 | 69.0 | 70.0 | 65.3 |
| Psychiatrists | 240 | 335 | 449 | 1.6 | 1.3 | 1.5 |
| Psychologists | 820 | 911 | 1,274 | 5.4 | 3.6 | 4.2 |
| Social workers | 2,283 | 4,585 | 4,211 | 14.9 | 18.2 | 14.0 |
| Registered nurses | 485 | 746 | 821 | 3.2 | 3.0 | 2.7 |
| Other professional staff ¹ | 6,723 | 11,022 | 12,933 | 43.9 | 43.8 | 42.9 |
| Other mental health workers | 4,746 | 7,547 | 10,451 | 31.0 | 30.0 | 34.7 |

See footnotes at end of table.

Table 103 (page 2 of 2). Full-time equivalent patient care staff in mental health organizations, according to type of organization and staff discipline: United States, selected years 1984–88

[Data are based on inventories of mental health organizations]

| Organization and discipline | 1984 | 1986 | 1988 | 1984 | 1986 | 1988 | |
|---|--------|--------|--------|----------------------|-------|-------|--|
| All other organizations ² | | Number | | Percent distribution | | | |
| All patient care staff | 71,161 | 82,224 | 94,749 | 100.0 | 100.0 | 100.0 | |
| Professional patient care staff | 58,509 | 64,768 | 73,039 | 82.2 | 78.8 | 77.1 | |
| Psychiatrists | 3,545 | 3,969 | 4,601 | 5.0 | 4.8 | 4.9 | |
| Psychologists | 11,002 | 9,908 | 11,444 | 15.5 | 12.1 | 12.1 | |
| Social workers | 19,317 | 19,921 | 23,784 | 27.1 | 24.2 | 25.1 | |
| Registered nurses | 4,899 | 5,647 | 6,559 | 6.9 | 6.9 | 6.9 | |
| Other professional staff ¹ | 19,746 | 25,323 | 26,651 | 27.7 | 30.8 | 28.1 | |
| Other mental health workers | 12,652 | 17,456 | 21,710 | 17.8 | 21.2 | 22.9 | |

¹Includes occupational therapists, recreation therapists, vocational rehabilitation counselors, and teachers.

²Includes freestanding outpatient, partial care, and multiservice organizations.

SOURCES: Statistical Research Branch, Division of Applied and Services Research, National Institute of Mental Health: R. W. Manderscheid and S. A. Barrett: Mental Health, United States, 1987. DHHS Pub. No. (ADM) 87-1518. U.S. Government Printing Office, 1987; R. W. Manderscheid and M. A. Sonnenschein: Mental Health, United States, 1990. DHHS Pub. No. (ADM) 90-1708. U.S. Government Printing Office, 1990; Unpublished data.

Table 104. First-year enrollment and graduates of health professions schools and number of schools, according to profession: United States, selected years 1950–91 and projections for year 2000

[Data are based on reporting by health professions schools]

| Year | Registered nursing | | | | | | Licensed practical nursing | | | | |
|--|--------------------|------------|---------|---------------|------------------|---------|----------------------------|-----------|----------|--------------|-------|
| | Medicine | Osteopathy | Total | Baccalaureate | Associate degree | Diploma | Dentistry | Optometry | Pharmacy | Chiropractic | |
| First-year enrollment¹ | | | | | | | | | | | |
| 1980 | 16,930 | 1,426 | 105,952 | 35,414 | 53,633 | 16,905 | 56,316 | 6,066 | 1,185 | 7,905 | --- |
| 1981 | 17,186 | 1,496 | 110,201 | 35,808 | 56,899 | 17,494 | 58,479 | 5,964 | 1,174 | 7,442 | --- |
| 1982 | 17,268 | 1,582 | 115,279 | 35,928 | 60,423 | 18,928 | 60,426 | 5,789 | 1,162 | 6,617 | --- |
| 1983 | 17,254 | 1,682 | 120,579 | 37,264 | 63,947 | 19,368 | 61,453 | 5,498 | 1,120 | 6,280 | --- |
| 1984 | 17,150 | 1,746 | 123,824 | 39,400 | 66,576 | 17,848 | 57,865 | 5,207 | 1,187 | 6,598 | --- |
| 1985 | 16,997 | 1,750 | 118,224 | 39,573 | 63,776 | 14,875 | 47,034 | 4,983 | 1,177 | 6,749 | --- |
| 1986 ² | 16,963 | 1,737 | 100,791 | 34,310 | 56,635 | 9,846 | 44,477 | 4,777 | 1,154 | 6,584 | --- |
| 1987 ³ | 16,819 | 1,724 | 90,693 | 28,026 | 54,330 | 8,337 | 42,452 | 4,494 | 1,210 | 7,081 | --- |
| 1988 ³ | 16,713 | 1,692 | 94,269 | 28,505 | 57,375 | 8,389 | 43,774 | 4,316 | 1,234 | 7,309 | --- |
| 1989 ³ | 16,868 | 1,780 | 103,025 | 29,042 | 63,973 | 10,010 | 47,602 | 4,148 | 1,271 | 8,067 | --- |
| 1990 | 16,756 | 1,844 | 108,580 | 29,858 | 68,634 | 10,088 | 52,969 | 3,938 | 1,258 | 8,009 | --- |
| 1991 | 16,876 | 1,950 | 113,526 | 33,437 | 69,869 | 10,220 | 56,176 | 3,961 | 1,207 | --- | --- |
| Graduates¹ | | | | | | | | | | | |
| 1950 ⁴ | 5,553 | 373 | 25,790 | --- | --- | --- | 2,828 | 2,565 | 961 | --- | --- |
| 1960 | 7,081 | 427 | 30,113 | 4,136 | 789 | 25,188 | 16,491 | 3,253 | 364 | 3,497 | 660 |
| 1970 | 8,367 | 432 | 43,103 | 9,069 | 11,483 | 22,551 | 36,456 | 3,749 | 445 | 4,758 | 642 |
| 1975 | 12,714 | 702 | 73,915 | 20,170 | 32,183 | 21,562 | 45,375 | 4,969 | 806 | 6,712 | 1,093 |
| 1980 | 15,135 | 1,059 | 75,523 | 24,994 | 36,034 | 14,495 | 41,892 | 5,256 | 1,073 | 7,432 | 2,049 |
| 1981 | 15,667 | 1,151 | 73,985 | 24,370 | 36,712 | 12,903 | 41,002 | 5,550 | 1,092 | 7,323 | 2,526 |
| 1982 | 15,985 | 1,017 | 74,052 | 24,081 | 38,289 | 11,682 | 43,299 | 5,371 | 1,106 | 6,859 | 2,631 |
| 1983 | 15,824 | 1,317 | 77,408 | 23,855 | 41,849 | 11,704 | 45,174 | 5,756 | 1,166 | 6,374 | 2,948 |
| 1984 | 16,327 | 1,287 | 80,312 | 23,718 | 44,394 | 12,200 | 44,654 | 5,337 | 1,188 | 5,963 | --- |
| 1985 | 16,319 | 1,474 | 82,075 | 24,975 | 45,208 | 11,892 | 36,955 | 5,353 | 1,114 | 5,724 | --- |
| 1986 | 16,125 | 1,560 | 77,027 | 25,170 | 41,333 | 10,524 | 29,599 | 4,957 | 1,085 | 5,800 | --- |
| 1987 | 15,836 | 1,587 | 70,561 | 23,761 | 38,528 | 8,272 | 27,285 | 4,717 | 1,081 | 5,854 | --- |
| 1988 | 15,887 | 1,572 | 64,839 | 21,504 | 37,397 | 5,938 | 26,912 | 4,581 | 1,106 | 6,171 | 2,797 |
| 1989 ⁵ | 15,620 | 1,609 | 61,660 | 18,997 | 37,837 | 4,826 | 30,368 | 4,312 | 1,143 | 6,557 | 2,400 |
| 1990 | 15,336 | 1,529 | 66,088 | 18,571 | 42,318 | 5,199 | 35,417 | 4,233 | 1,115 | --- | --- |
| 1991 ⁶ | 15,499 | 1,533 | 72,230 | 19,264 | 46,794 | 6,172 | 38,100 | 3,995 | 1,136 | --- | --- |
| 2000 ⁷ | 16,536 | 1,758 | 61,800 | 15,822 | 41,834 | 4,100 | --- | 3,242 | 1,200 | 7,120 | 2,950 |
| Schools^{1,8} | | | | | | | | | | | |
| 1950 ⁴ | 79 | 6 | 1,170 | --- | --- | --- | 85 | 42 | 10 | --- | 20 |
| 1960 | 86 | 6 | 1,137 | 172 | 57 | 908 | 661 | 47 | 10 | 76 | 12 |
| 1970 | 103 | 7 | 1,340 | 267 | 437 | 636 | 1,233 | 53 | 11 | 74 | 11 |
| 1975 | 114 | 9 | 1,362 | 326 | 608 | 428 | 1,315 | 59 | 12 | 73 | 12 |
| 1980 | 126 | 14 | 1,385 | 377 | 697 | 311 | 1,299 | 60 | 15 | 72 | 14 |
| 1981 | 126 | 15 | 1,401 | 383 | 715 | 303 | 1,309 | 60 | 16 | 72 | 16 |
| 1982 | 127 | 15 | 1,432 | 402 | 742 | 288 | 1,295 | 60 | 16 | 72 | 16 |
| 1983 | 127 | 15 | 1,466 | 421 | 764 | 281 | 1,297 | 60 | 16 | 72 | 17 |
| 1984 | 127 | 15 | 1,477 | 427 | 777 | 273 | 1,254 | 60 | 16 | 72 | 17 |
| 1985 | 127 | 15 | 1,473 | 441 | 776 | 256 | 1,165 | 60 | 16 | 72 | 17 |
| 1986 | 127 | 15 | 1,469 | 455 | 776 | 238 | 1,087 | 59 | 16 | 73 | 17 |
| 1987 | 127 | 15 | 1,465 | 467 | 789 | 209 | 1,068 | 58 | 16 | 74 | 17 |
| 1988 | 127 | 15 | 1,442 | 479 | 792 | 171 | 1,095 | 58 | 16 | 74 | 17 |
| 1989 | 127 | 15 | 1,457 | 488 | 812 | 157 | 1,171 | 58 | 16 | 74 | 17 |
| 1990 | 126 | 15 | 1,470 | 489 | 829 | 152 | 1,154 | 58 | 16 | 74 | 17 |
| 1991 | 126 | 15 | 1,484 | 501 | 838 | 145 | 1,125 | 58 | 16 | 74 | 17 |

¹Data on the number of schools are collected at the beginning of the academic year while data on first-year enrollment and number of graduates are collected at the end of the academic year.

²First-year enrollment data for optometry exclude Ohio State University.

³First-year enrollment data for pharmacy include the University of Puerto Rico.

⁴Data for total registered nursing are for 1951.

⁵Data for chiropractic medicine are estimated.

⁶Data for medicine are estimated.

⁷Projected.

⁸Some nursing schools offer more than one type of program. Numbers shown for nursing are number of nursing programs.

NOTE: Some numbers in this table have been revised and differ from previous editions of Health, United States.

SOURCES: Association of American Medical Colleges: AAMC Data Book Statistical Information Related to Medical Education. Washington, D.C., 1991; Bureau of Health Professions: Eighth Report to the President and Congress on the Status of Health Personnel in the United States. Health Resources and Services Administration. DHHS Pub. No. HRS-P-OD-92-1. Health Resources and Services Administration: Unpublished data; National League for Nursing: Nursing Datasource, 1992; National League for Nursing: Nursing Data Review, 1989; American Nurses Association: Facts About Nursing, 1951 and 1961; American Dental Association Council on Dental Education: Annual Report on Dental Education 1990–91. Chicago, 1991; American Medical Association: Medical education in the United States. JAMA. Vol. 266, No. 7. August 21, 1991; American Association of Colleges of Osteopathic Medicine: Annual Statistical Report 1991. Rockville, Md., 1991; American Chiropractic Association: Unpublished data.

Table 105 (page 1 of 2). First-year and total enrollment of minorities in schools for selected health occupations, according to detailed race and Hispanic origin: United States, academic years 1980–81 and 1990–91

[Data are based on reporting by health professions associations]

| Occupation, detailed race, and Hispanic origin | First-year enrollment ¹ | | | | Total enrollment ¹ | | | |
|--|------------------------------------|----------------------|--------------------|----------------------|-------------------------------|----------------------|---------|----------------------|
| | 1980–81 | 1990–91 ² | 1980–81 | 1990–91 ² | 1980–81 | 1990–91 ² | 1980–81 | 1990–91 ² |
| Allopathic medicine | | | | | | | | |
| Number of students | Percent of students | | Number of students | | Percent of students | | | |
| All races ³ | 17,186 | 16,876 | 100.0 | 100.0 | 65,189 | 65,163 | 100.0 | 100.0 |
| Non-Hispanic white | 14,262 | 11,830 | 83.0 | 70.1 | 55,434 | 47,893 | 85.0 | 73.5 |
| Non-Hispanic black | 1,128 | 1,263 | 6.6 | 7.5 | 3,708 | 4,241 | 5.7 | 6.5 |
| Hispanic | 818 | 933 | 4.8 | 5.5 | 2,761 | 3,538 | 4.2 | 5.4 |
| Mexican American | 258 | 285 | 1.5 | 1.7 | 951 | 1,109 | 1.5 | 1.7 |
| Mainland Puerto Rican | 95 | 120 | 0.6 | 0.7 | 329 | 457 | 0.5 | 0.7 |
| Other Hispanic ⁴ | 465 | 528 | 2.7 | 3.1 | 1,481 | 1,972 | 2.3 | 3.0 |
| American Indian | 67 | 76 | 0.4 | 0.5 | 221 | 277 | 0.3 | 0.4 |
| Asian | 572 | 2,527 | 3.3 | 15.0 | 1,924 | 8,436 | 3.0 | 12.9 |
| Osteopathic medicine | | | | | | | | |
| All races | 1,496 | 1,950 | 100.0 | 100.0 | 4,940 | 6,792 | 100.0 | 100.0 |
| Non-Hispanic white ³ | 1,397 | 1,565 | 93.4 | 80.3 | 4,688 | 5,680 | 94.9 | 83.6 |
| Non-Hispanic black | 40 | 79 | 2.7 | 4.1 | 94 | 217 | 1.9 | 3.2 |
| Hispanic | 18 | 78 | 1.2 | 4.0 | 52 | 277 | 1.1 | 4.1 |
| American Indian | 8 | 14 | 0.5 | 0.7 | 19 | 36 | 0.4 | 0.5 |
| Asian | 33 | 214 | 2.2 | 11.0 | 87 | 582 | 1.8 | 8.6 |
| Podiatry | | | | | | | | |
| All races | 695 | 622 | 100.0 | 100.0 | 2,577 | 2,226 | 100.0 | 100.0 |
| Non-Hispanic white ³ | 629 | 433 | 90.5 | 69.6 | 2,353 | 1,671 | 91.3 | 75.1 |
| Non-Hispanic black | 40 | 77 | 5.8 | 12.4 | 110 | 237 | 4.3 | 10.6 |
| Hispanic | 8 | 54 | 1.2 | 8.7 | 39 | 148 | 1.5 | 6.6 |
| American Indian | 2 | 2 | 0.3 | 0.3 | 6 | 7 | 0.2 | 0.3 |
| Asian | 16 | 56 | 2.3 | 9.0 | 69 | 163 | 2.7 | 7.3 |
| Dentistry⁵ | | | | | | | | |
| All races | 5,964 | 3,961 | 100.0 | 100.0 | 22,842 | 15,770 | 100.0 | 100.0 |
| Non-Hispanic white ³ | 5,192 | 2,805 | 87.1 | 70.8 | 20,208 | 11,185 | 88.5 | 70.9 |
| Non-Hispanic black | 283 | 265 | 4.7 | 6.7 | 1,022 | 940 | 4.5 | 6.0 |
| Hispanic | 160 | 240 | 2.7 | 6.1 | 519 | 1,073 | 2.3 | 6.8 |
| American Indian | 12 | 10 | 0.2 | 0.3 | 53 | 53 | 0.2 | 0.3 |
| Asian | 317 | 641 | 5.3 | 16.2 | 1,040 | 2,519 | 4.6 | 16.0 |
| Optometry⁵ | | | | | | | | |
| All races | 1,174 | 1,207 | 100.0 | 100.0 | 4,540 | 4,650 | 100.0 | 100.0 |
| Non-Hispanic white ³ | --- | 930 | --- | 77.1 | 4,148 | 3,706 | 91.4 | 79.7 |
| Non-Hispanic black | --- | 47 | --- | 3.9 | 57 | 134 | 1.3 | 2.9 |
| Hispanic | --- | 50 | --- | 4.1 | 80 | 186 | 1.8 | 4.0 |
| American Indian | --- | 7 | --- | 0.6 | 12 | 21 | 0.3 | 0.5 |
| Asian | --- | 173 | --- | 14.3 | 243 | 603 | 5.4 | 13.0 |
| Pharmacy⁶ | | | | | | | | |
| All races | 7,442 | 8,009 | 100.0 | 100.0 | 21,628 | 22,764 | 100.0 | 100.0 |
| Non-Hispanic white ³ | 6,470 | --- | 86.9 | --- | 19,153 | 18,325 | 88.6 | 80.5 |
| Non-Hispanic black | 376 | --- | 5.1 | --- | 945 | 1,301 | 4.4 | 5.7 |
| Hispanic | 210 | --- | 2.8 | --- | 459 | 945 | 2.1 | 4.2 |
| American Indian | 13 | --- | 0.2 | --- | 36 | 63 | 0.2 | 0.3 |
| Asian | 373 | --- | 5.0 | --- | 1,035 | 2,130 | 4.8 | 9.4 |
| Veterinary medicine | | | | | | | | |
| All races | 2,131 | 2,197 | 100.0 | 100.0 | 7,777 | 8,420 | 100.0 | 100.0 |
| Non-Hispanic white ³ | --- | 2,021 | --- | 92.0 | 7,401 | 7,787 | 95.2 | 92.5 |
| Non-Hispanic black | --- | 61 | --- | 2.8 | 176 | 215 | 2.3 | 2.6 |
| Hispanic | --- | 66 | --- | 3.0 | 89 | 243 | 1.1 | 2.9 |
| American Indian | --- | 13 | --- | 0.6 | 32 | 45 | 0.4 | 0.5 |
| Asian | --- | 36 | --- | 1.6 | 79 | 130 | 1.0 | 1.5 |

See footnotes at end of table.

Table 105 (page 2 of 2). First-year and total enrollment of minorities in schools for selected health occupations, according to detailed race and Hispanic origin: United States, academic years 1980–81 and 1990–91

[Data are based on reporting by health professions associations]

| Occupation, detailed race, and Hispanic origin | First-year enrollment ¹ | | | | Total enrollment ¹ | | | |
|--|------------------------------------|----------------------|---------------------|----------------------|-------------------------------|----------------------|---------------------|----------------------|
| | 1980–81 | 1990–91 ² | 1980–81 | 1990–91 ² | 1980–81 | 1990–91 ² | 1980–81 | 1990–91 ² |
| Registered nurses ⁷ | Number of students | | Percent of students | | Number of students | | Percent of students | |
| All races | 110,201 | 113,526 | 100.0 | 100.0 | 230,966 | 221,170 | 100.0 | 100.0 |
| Non-Hispanic white ³ | --- | 94,709 | --- | 83.4 | --- | 183,102 | --- | 82.8 |
| Non-Hispanic black | --- | 10,822 | --- | 9.5 | --- | 23,094 | --- | 10.4 |
| Hispanic | --- | 3,619 | --- | 3.2 | --- | 6,580 | --- | 3.0 |
| American Indian | --- | 840 | --- | 0.7 | --- | 1,803 | --- | 0.8 |
| Asian | --- | 3,536 | --- | 3.1 | --- | 6,591 | --- | 3.0 |

¹Total enrollment data are collected in the beginning of the academic year while first-year enrollment data are collected at the end of the academic year.

²First-year and total enrollments for pharmacy students are for 1989–90, and include the University of Puerto Rico.

³Includes race/ethnicity unspecified.

⁴Includes Puerto Rican Commonwealth students.

⁵Excludes Puerto Rican schools.

⁶Pharmacy first-year enrollment data are for students in the first year of the final 3 years of pharmacy education. Pharmacy total enrollment data are for students in the final 3 years of pharmacy education.

⁷In 1990, the National League for Nursing developed a new system for analyzing minority data. In evaluating the former system, much underreporting was noted. Therefore, any data prior to 1989 would not be comparable.

NOTE: Some numbers in this table have been revised and differ from previous editions of Health, United States.

SOURCES: Association of American Medical Colleges: AAMC Data Book Statistical Information Related to Medical Education. Washington, D.C., 1991; American Association of Colleges of Osteopathic Medicine: 1991 Annual Statistical Report. Rockville, Md., 1991; Bureau of Health Professions: Minorities and Women in the Health Fields, 1990 Edition; American Dental Association in cooperation with the American Association of Dental Schools: Annual Report on Dental Education 1990/91. Chicago, 1991; Association of Schools and Colleges of Optometry: Unpublished data; American Association of Colleges of Pharmacy: Unpublished data; Association of American Veterinary Medical Colleges: Unpublished data; American Association of Colleges of Podiatric Medicine: Unpublished data; National League for Nursing: Nursing Datasource. New York, 1992; Nursing Data Book, New York, 1982.

Table 106. First-year and total enrollment of women in schools for selected health occupations, according to detailed race and Hispanic origin: United States, academic years 1971–72, 1980–81, and 1990–91

[Data are based on reporting by health professions associations]

| Enrollment, occupation, detailed race, and Hispanic origin | Both sexes | | | Women | | |
|--|----------------------|---------|----------------------|----------------------|---------|----------------------|
| | 1971–72 ¹ | 1980–81 | 1990–91 ² | 1971–72 ¹ | 1980–81 | 1990–91 ² |
| First-year enrollment ³ | Number of students | | | Percent of students | | |
| Allopathic medicine ⁴ | 12,361 | 17,186 | 16,876 | 13.7 | 28.9 | 38.8 |
| Non-Hispanic white | --- | 14,262 | 11,830 | --- | 27.4 | 37.7 |
| Non-Hispanic black | 881 | 1,128 | 1,263 | 22.7 | 45.5 | 55.3 |
| Hispanic | --- | 818 | 933 | --- | 31.5 | 42.0 |
| Mexican American | 118 | 258 | 285 | 8.5 | 30.6 | 39.3 |
| Mainland Puerto Rican | 40 | 95 | 120 | 15.0 | 43.2 | 43.3 |
| Other Hispanic ⁵ | --- | 465 | 528 | --- | 29.7 | 43.3 |
| American Indian | 23 | 67 | 76 | 34.8 | 35.8 | 40.8 |
| Asian | 217 | 572 | 2,527 | 19.4 | 31.5 | 40.3 |
| Osteopathic medicine. | 670 | 1,496 | 1,950 | 4.3 | 22.0 | 34.2 |
| Dentistry ⁶ | 4,705 | 5,964 | 3,961 | 3.1 | 19.8 | 37.9 |
| Optometry. | 906 | 1,174 | 1,207 | 5.3 | 25.3 | 50.6 |
| Pharmacy ⁷ | 6,532 | 7,442 | 8,009 | 25.8 | 48.4 | — |
| Veterinary medicine | 1,453 | 2,131 | 2,197 | 15.3 | 43.5 | 61.6 |
| Registered nurses | 93,344 | 110,201 | 113,526 | 94.5 | 92.7 | 89.3 |
| Total enrollment ³ | | | | | | |
| Allopathic medicine ⁴ | 43,650 | 65,189 | 65,163 | 10.9 | 26.5 | 37.3 |
| Non-Hispanic white | --- | 55,434 | 47,893 | --- | 25.0 | 35.4 |
| Non-Hispanic black | 2,055 | 3,708 | 4,241 | 20.4 | 44.3 | 55.8 |
| Hispanic | --- | 2,761 | 3,538 | --- | 30.1 | 39.0 |
| Mexican American | 252 | 951 | 1,109 | 9.5 | 26.4 | 38.5 |
| Mainland Puerto Rican | 76 | 329 | 457 | 17.1 | 35.9 | 43.1 |
| Other Hispanic ⁵ | --- | 1,481 | 1,972 | --- | 31.1 | 38.4 |
| American Indian | 42 | 221 | 277 | 23.8 | 28.5 | 42.6 |
| Asian | 647 | 1,924 | 8,436 | 17.9 | 30.4 | 37.7 |
| Osteopathic medicine. | 2,304 | 4,940 | 6,792 | 3.4 | 19.7 | 32.7 |
| Podiatry. | 1,268 | 2,577 | 2,226 | 1.2 | 11.9 | — |
| Optometry. | 3,094 | 4,540 | 4,650 | --- | --- | 47.3 |
| Veterinary medicine | 5,149 | 7,777 | 8,420 | 11.5 | 38.8 | 60.1 |
| Registered nurses | 211,239 | 230,966 | 221,170 | 95.5 | 94.3 | — |

¹Total enrollments for registered nurse students are for 1972–73.

²First-year enrollments for pharmacy students are for 1989–90, and include the University of Puerto Rico.

³Total enrollment data are collected at the beginning of the academic year while first-year enrollment data are collected at the end of the academic year.

⁴Includes race/ethnicity unspecified.

⁵Includes Puerto Rican Commonwealth students.

⁶Excludes Puerto Rican schools.

⁷Pharmacy first-year enrollment data are for students in the first year of the final 3 years of pharmacy education.

NOTES: Data not available on first-year enrollment of women in schools of podiatry and total enrollment of women in schools of dentistry and pharmacy. Some numbers in this table have been revised and differ from previous editions of Health, United States.

SOURCES: Association of American Medical Colleges: AAMC Data Book Statistical Information Related to Medical Education. Washington, D.C., 1991; American Association of Colleges of Osteopathic Medicine: 1991 Annual Statistical Report. Rockville, Md., 1991; Bureau of Health Professions: Minorities and Women in the Health Fields, 1990 Edition; American Dental Association in cooperation with the American Association of Dental Schools: Annual Report on Dental Education 1990/91. Chicago, 1991; Association of Schools and Colleges of Optometry: Unpublished data; American Association of Colleges of Pharmacy: Unpublished data; Association of American Veterinary Medical Colleges: Unpublished data; American Association of Colleges of Podiatric Medicine: Unpublished data; National League for Nursing: Nursing Datasource. New York, 1992; Nursing Data Book, New York, 1982; State-Approved Schools of Nursing-RN. New York, 1973.

Table 107. Short-stay hospitals, beds, and occupancy rates, according to type of ownership and size of hospital: United States, selected years 1960–91

[Data are based on reporting by a census of hospitals]

| Type of ownership and size of hospital | 1960 | 1970 | 1975 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 |
|---|---------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Hospitals | | | | | | | | | | | |
| All ownerships..... | 5,768 | 6,193 | 6,310 | 6,229 | 6,091 | 6,035 | 5,967 | 5,892 | 5,808 | 5,728 | 5,675 |
| Federal..... | 361 | 334 | 331 | 325 | 307 | 307 | 308 | 313 | 311 | 308 | 305 |
| Nonfederal..... | 5,407 | 5,859 | 5,979 | 5,904 | 5,784 | 5,728 | 5,659 | 5,579 | 5,497 | 5,420 | 5,370 |
| Nonprofit..... | 3,291 | 3,386 | 3,364 | 3,339 | 3,364 | 3,338 | 3,289 | 3,256 | 3,233 | 3,202 | 3,184 |
| Proprietary..... | 856 | 769 | 775 | 730 | 805 | 834 | 828 | 790 | 769 | 749 | 738 |
| State-local government..... | 1,260 | 1,704 | 1,840 | 1,835 | 1,615 | 1,556 | 1,542 | 1,533 | 1,495 | 1,469 | 1,448 |
| Size of hospital: | | | | | | | | | | | |
| 6–99 beds..... | --- | --- | 3,196 | 2,953 | 2,751 | 2,732 | 2,736 | 2,694 | 2,646 | 2,584 | 2,541 |
| 100–199 beds..... | --- | --- | 1,413 | 1,436 | 1,458 | 1,445 | 1,408 | 1,391 | 1,388 | 1,369 | 1,366 |
| 200–299 beds..... | --- | --- | 701 | 742 | 765 | 781 | 776 | 779 | 766 | 773 | 763 |
| 300–499 beds..... | --- | --- | 651 | 724 | 736 | 706 | 686 | 671 | 664 | 661 | 671 |
| 500 beds or more..... | --- | --- | 349 | 374 | 381 | 371 | 361 | 357 | 344 | 341 | 334 |
| Beds | | | | | | | | | | | |
| All ownerships..... | 735,451 | 935,724 | 1,036,025 | 1,080,164 | 1,087,750 | 1,066,611 | 1,046,013 | 1,033,881 | 1,014,965 | 1,007,201 | 1,002,600 |
| Federal..... | 96,394 | 87,492 | 89,049 | 88,144 | 84,612 | 85,071 | 84,523 | 84,419 | 79,202 | 77,827 | 76,725 |
| Nonfederal..... | 639,057 | 848,232 | 946,976 | 992,020 | 1,003,138 | 981,540 | 961,490 | 949,462 | 935,763 | 929,374 | 925,875 |
| Nonprofit..... | 445,753 | 591,937 | 658,948 | 692,929 | 707,806 | 689,685 | 673,308 | 668,101 | 660,947 | 657,016 | 656,713 |
| Proprietary..... | 37,029 | 52,739 | 73,495 | 87,033 | 103,921 | 106,716 | 105,746 | 103,623 | 102,416 | 101,377 | 99,657 |
| State-local government..... | 156,275 | 203,556 | 214,533 | 212,058 | 191,411 | 185,139 | 182,436 | 177,738 | 172,400 | 170,981 | 169,505 |
| Size of hospital: | | | | | | | | | | | |
| 6–99 beds..... | --- | --- | 165,148 | 155,259 | 147,703 | 146,202 | 145,541 | 143,006 | 139,478 | 136,034 | 134,073 |
| 100–199 beds..... | --- | --- | 201,587 | 203,023 | 206,029 | 204,139 | 198,777 | 196,555 | 196,322 | 193,388 | 193,735 |
| 200–299 beds..... | --- | --- | 171,057 | 180,047 | 185,033 | 189,017 | 188,294 | 189,236 | 186,675 | 188,833 | 185,944 |
| 300–499 beds..... | --- | --- | 247,410 | 276,201 | 279,700 | 266,477 | 258,841 | 253,110 | 251,987 | 250,646 | 254,120 |
| 500 beds or more..... | --- | --- | 250,823 | 265,634 | 269,285 | 260,776 | 254,560 | 251,974 | 240,503 | 238,300 | 234,728 |
| Occupancy rate | | | | | | | | | | | |
| Percent of beds occupied | | | | | | | | | | | |
| All ownerships..... | 75.7 | 77.9 | 75.0 | 75.6 | 65.5 | 64.9 | 65.5 | 65.9 | 66.5 | 67.1 | 66.4 |
| Federal..... | 82.5 | 77.5 | 77.6 | 77.8 | 74.3 | 72.6 | 71.8 | 71.2 | 71.0 | 71.2 | 70.1 |
| Nonfederal..... | 74.7 | 78.0 | 74.8 | 75.4 | 64.8 | 64.2 | 64.9 | 65.5 | 66.2 | 66.8 | 66.1 |
| Nonprofit..... | 76.6 | 80.1 | 77.4 | 78.2 | 67.2 | 66.8 | 67.6 | 68.2 | 68.8 | 69.3 | 68.6 |
| Proprietary..... | 65.4 | 72.2 | 65.9 | 65.2 | 52.1 | 50.7 | 51.1 | 50.9 | 51.7 | 52.8 | 52.6 |
| State-local government..... | 71.6 | 73.2 | 69.7 | 70.7 | 62.8 | 62.6 | 63.1 | 63.8 | 64.8 | 65.3 | 64.4 |
| Size of hospital: | | | | | | | | | | | |
| 6–99 beds..... | --- | --- | 61.1 | 60.6 | 48.4 | 47.3 | 47.8 | 48.3 | 49.0 | 49.7 | 49.9 |
| 100–199 beds..... | --- | --- | 71.3 | 71.6 | 60.0 | 58.8 | 59.2 | 59.7 | 60.8 | 61.8 | 60.5 |
| 200–299 beds..... | --- | --- | 77.1 | 77.3 | 65.9 | 65.5 | 65.6 | 66.0 | 66.9 | 67.3 | 66.8 |
| 300–499 beds..... | --- | --- | 80.0 | 80.0 | 69.4 | 69.0 | 70.1 | 70.9 | 70.9 | 71.5 | 70.4 |
| 500 beds or more..... | --- | --- | 80.9 | 81.9 | 74.9 | 74.9 | 75.6 | 75.8 | 76.5 | 76.6 | 76.2 |

NOTE: Excludes psychiatric and tuberculosis and other respiratory disease hospitals.

SOURCES: American Hospital Association: Hospitals. JAHA 35(15):396–401 and 45(15):463–467, Aug. 1961 and Aug. 1971; Hospital Statistics, 1976, 1981, 1985–92 Editions. Chicago, 1976, 1981, 1985–92. (Copyrights 1961, 1971, 1976, 1981, 1985–92: Used with the permission of the American Hospital Association.)

**Table 108. Long-term hospitals, beds, and occupancy rates, according to type of hospital and ownership:
United States, selected years 1970–91**

[Data are based on reporting by a census of hospitals]

| Type of hospital and ownership | 1970 | 1975 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Hospitals | | | | | | | | | | |
| Number | | | | | | | | | | |
| General | 75 | 44 | 17 | 23 | 21 | 21 | 20 | 25 | 31 | 30 |
| Federal | 38 | 23 | 9 | 14 | 13 | 13 | 10 | 10 | 11 | 9 |
| Nonfederal | 37 | 21 | 8 | 9 | 8 | 8 | 10 | 15 | 20 | 21 |
| Psychiatric | 459 | 419 | 381 | 383 | 390 | 391 | 393 | 382 | 362 | 354 |
| Federal | 33 | 26 | 23 | 19 | 18 | 18 | 17 | 17 | 16 | 15 |
| Nonprofit | 56 | 45 | 47 | 57 | 55 | 51 | 53 | 50 | 45 | 39 |
| Proprietary | 39 | 51 | 57 | 81 | 91 | 96 | 103 | 96 | 80 | 76 |
| State-local government | 331 | 297 | 254 | 226 | 226 | 226 | 220 | 219 | 221 | 224 |
| Tuberculosis and other respiratory diseases . . | 103 | 34 | 10 | 5 | 2 | 3 | 3 | 3 | 3 | 3 |
| All other | 200 | 196 | 150 | 122 | 129 | 126 | 121 | 125 | 112 | 109 |
| Federal | 1 | 2 | 1 | 3 | 4 | 3 | 2 | 2 | 1 | 4 |
| Nonprofit | 110 | 94 | 66 | 59 | 61 | 58 | 55 | 58 | 49 | 45 |
| Proprietary | 2 | 9 | 11 | 13 | 15 | 17 | 15 | 19 | 17 | 19 |
| State-local government | 87 | 91 | 72 | 47 | 49 | 48 | 49 | 46 | 45 | 41 |
| Beds | | | | | | | | | | |
| General | 42,569 | 17,329 | 8,253 | 12,985 | 11,112 | 11,508 | 9,807 | 11,275 | 11,599 | 10,466 |
| Federal | 31,403 | 14,406 | 7,205 | 10,073 | 9,079 | 9,232 | 7,449 | 8,373 | 8,040 | 6,481 |
| Nonfederal | 11,166 | 2,923 | 1,048 | 2,912 | 2,033 | 2,276 | 2,358 | 2,902 | 3,559 | 3,985 |
| Psychiatric | 551,847 | 344,257 | 218,400 | 162,968 | 157,378 | 150,727 | 143,853 | 135,968 | 131,356 | 121,100 |
| Federal | 41,500 | 27,523 | 20,871 | 15,739 | 15,167 | 14,585 | 12,285 | 12,046 | 11,315 | 10,044 |
| Nonprofit | 8,892 | 5,366 | 6,645 | 6,708 | 6,668 | 5,994 | 5,950 | 5,486 | 5,218 | 3,715 |
| Proprietary | 3,399 | 4,821 | 5,877 | 8,832 | 9,270 | 9,786 | 10,014 | 9,200 | 7,923 | 7,222 |
| State-local government | 498,056 | 306,547 | 185,007 | 131,689 | 126,273 | 120,362 | 115,604 | 109,236 | 106,900 | 100,119 |
| Tuberculosis and other respiratory diseases . . | 19,937 | 5,699 | 1,500 | 574 | 183 | 339 | 312 | 348 | 355 | 355 |
| All other | 49,152 | 49,268 | 37,911 | 29,519 | 29,614 | 27,541 | 26,013 | 25,612 | 22,166 | 24,016 |
| Federal | 357 | 968 | 357 | 1,599 | 1,812 | 1,451 | 1,043 | 1,010 | 734 | 3,043 |
| Nonprofit | 12,638 | 12,733 | 10,038 | 9,391 | 9,829 | 8,785 | 8,107 | 8,878 | 7,324 | 7,086 |
| Proprietary | 101 | 879 | 1,356 | 1,364 | 1,844 | 1,681 | 1,472 | 1,606 | 1,197 | 1,226 |
| State-local government | 36,056 | 34,688 | 26,160 | 17,165 | 16,129 | 15,624 | 15,391 | 14,118 | 12,911 | 12,661 |
| Occupancy rate | | | | | | | | | | |
| Percent of beds occupied | | | | | | | | | | |
| General | 79.2 | 84.4 | 83.9 | 80.2 | 79.1 | 76.5 | 78.3 | 81.3 | 78.4 | 81.7 |
| Federal | 80.4 | 85.2 | 84.6 | 80.7 | 77.8 | 74.7 | 76.9 | 81.1 | 76.7 | 80.3 |
| Nonfederal | 75.8 | 80.4 | 79.0 | 78.6 | 85.0 | 83.8 | 82.6 | 81.7 | 82.3 | 84.1 |
| Psychiatric | 84.9 | 81.3 | 85.9 | 87.2 | 87.0 | 87.9 | 87.5 | 87.7 | 86.1 | 86.7 |
| Federal | 83.4 | 88.3 | 87.9 | 83.5 | 79.6 | 83.1 | 84.5 | 83.0 | 81.0 | 78.7 |
| Nonprofit | 85.2 | 84.8 | 87.2 | 86.5 | 85.5 | 81.7 | 78.9 | 77.1 | 76.5 | 80.0 |
| Proprietary | 78.4 | 74.1 | 76.3 | 77.6 | 75.8 | 75.8 | 77.8 | 77.3 | 72.7 | 69.6 |
| State-local government | 85.0 | 80.8 | 86.0 | 88.3 | 88.8 | 89.8 | 89.1 | 89.7 | 88.1 | 89.0 |
| Tuberculosis and other respiratory diseases . . | 61.9 | 57.6 | 66.4 | 64.3 | 59.6 | 70.5 | 76.6 | 73.0 | 65.4 | 79.2 |
| All other | 83.3 | 82.3 | 85.9 | 88.7 | 87.5 | 87.2 | 87.6 | 86.0 | 86.3 | 84.2 |
| Federal | 73.4 | 86.3 | 65.3 | 81.9 | 80.1 | 82.2 | 83.9 | 87.1 | 92.9 | 78.8 |
| Nonprofit | 82.8 | 83.3 | 87.3 | 89.9 | 88.4 | 87.9 | 89.2 | 86.2 | 85.9 | 85.2 |
| Proprietary | 87.1 | 86.0 | 86.5 | 85.6 | 82.6 | 76.3 | 80.6 | 79.5 | 75.9 | 64.1 |
| State-local government | 83.6 | 81.7 | 85.6 | 88.9 | 88.4 | 88.5 | 87.6 | 86.5 | 87.2 | 86.9 |

SOURCES: American Hospital Association: Hospitals. JAHA 45(15):463–467, Aug. 1971; Hospital Statistics, 1976, 1981, 1985–92 Editions. Chicago, 1976, 1981, 1985–92. (Copyrights 1971, 1976, 1981, 1985–92: Used with the permission of the American Hospital Association.)

Table 109. Inpatient and residential treatment beds in mental health organizations and rate per 100,000 civilian population, according to type of organization: United States, selected years 1970–88

[Data are based on inventories of mental health organizations]

| Organization | 1970 | 1980 ¹ | 1982 ² | 1984 | 1986 | 1988 |
|---|---------|-------------------|-------------------|---------|---------|---------|
| Number | | | | | | |
| All organizations..... | 524,878 | 274,713. | 247,312 | 262,673 | 267,613 | 271,923 |
| State and county mental hospitals..... | 413,066 | 156,482 | 140,140 | 130,411 | 119,033 | 107,109 |
| Private psychiatric hospitals..... | 14,295 | 17,157 | 19,011 | 21,474 | 30,201 | 42,255 |
| Nonfederal general hospital psychiatric services..... | 22,394 | 29,384 | 36,525 | 46,045 | 45,808 | 48,421 |
| Veterans Administration psychiatric services ³ | 50,688 | 33,796 | 24,646 | 23,546 | 26,874 | 25,742 |
| Federally funded community mental health centers.. | 8,108 | 16,264 | ... | ... | ... | ... |
| Residential treatment centers for emotionally disturbed children..... | 15,129 | 20,197 | 18,475 | 16,745 | 24,547 | 25,173 |
| All other ^{4,5} | 1,198 | 1,433 | 8,515 | 24,452 | 21,150 | 23,223 |
| Number per 100,000 civilian population | | | | | | |
| All organizations..... | 263.6 | 124.3 | 108.1 | 112.9 | 111.7 | 111.4 |
| State and county mental hospitals..... | 207.4 | 70.2 | 61.2 | 56.1 | 49.7 | 44.0 |
| Private psychiatric hospitals..... | 7.2 | 7.7 | 8.3 | 9.2 | 12.6 | 17.3 |
| Nonfederal general hospital psychiatric services..... | 11.2 | 13.7 | 16.0 | 19.8 | 19.1 | 19.8 |
| Veterans Administration psychiatric services ³ | 25.5 | 15.7 | 10.8 | 10.1 | 11.2 | 10.5 |
| Federally funded community mental health centers.. | 4.1 | 7.3 | ... | ... | ... | ... |
| Residential treatment centers for emotionally disturbed children..... | 7.6 | 9.1 | 8.1 | 7.2 | 10.3 | 10.3 |
| All other ^{4,5} | 0.6 | 0.6 | 3.7 | 10.5 | 8.8 | 9.5 |

¹During 1979–80, comparable data were not available for certain organization types, and data for either an earlier or later period were substituted.

²During 1981–82, some organizations were reclassified and data for some organization types were not available, resulting in a particularly large increase for the "all other" category in 1982.

³Includes Veterans Administration neuropsychiatric hospitals and Veterans Administration general hospitals with separate psychiatric services.

⁴Includes other multiservice mental health organizations with inpatient and residential treatment services that are not elsewhere classified.

⁵Beginning in 1983 a definitional change sharply increased the number of multiservice mental health organizations. See Appendix I.

NOTE: Changes in reporting procedures in 1979–80 and 1981–82 affect the comparability of data with those from previous years.

SOURCES: Statistical Research Branch, Division of Applied and Services Research, National Institute of Mental Health: R. W. Manderscheid and S. A. Barrett: Mental Health, United States, 1987. DHHS Pub. No. (ADM) 87-1518. U.S. Government Printing Office, 1987; R. W. Manderscheid and M. A. Sonnenschein: Mental Health, United States, 1990. DHHS Pub. No. (ADM) 90-1708. U.S. Government Printing Office, 1990; Unpublished data.

Table 110. Community hospital beds per 1,000 population and average annual percent change, according to geographic division and State: United States, selected years 1940–90

[Data are based on reporting by facilities]

| Geographic division and State | Beds per 1,000 civilian population | | | | | | | | | Average annual percent change | | | |
|--------------------------------|------------------------------------|-------------------|-------------------|------|------|------|------|------|------|-------------------------------|----------------------|---------|---------|
| | 1940 ¹ | 1950 ¹ | 1960 ² | 1970 | 1980 | 1985 | 1988 | 1989 | 1990 | 1940–60 ^{1,2} | 1960–70 ² | 1970–80 | 1980–90 |
| United States | 3.2 | 3.3 | 3.6 | 4.3 | 4.5 | 4.2 | 3.9 | 3.8 | 3.8 | 0.6 | 1.8 | 0.5 | -1.7 |
| New England | 4.4 | 4.2 | 3.9 | 4.1 | 4.1 | 4.0 | 3.6 | 3.5 | 3.4 | -0.6 | 0.5 | 0.0 | -1.9 |
| Maine | 3.0 | 3.2 | 3.4 | 4.7 | 4.7 | 4.2 | 3.9 | 3.8 | 3.8 | 0.6 | 3.3 | 0.0 | -2.1 |
| New Hampshire | 4.2 | 4.2 | 4.4 | 4.0 | 3.9 | 3.4 | 3.2 | 3.1 | 3.1 | 0.2 | -0.9 | -0.3 | -2.3 |
| Vermont | 3.3 | 4.0 | 4.5 | 4.5 | 4.4 | 3.8 | 3.1 | 3.1 | 3.1 | 1.6 | 0.0 | -0.2 | -3.4 |
| Massachusetts | 5.1 | 4.8 | 4.2 | 4.4 | 4.4 | 4.4 | 4.0 | 3.8 | 3.6 | -1.0 | 0.5 | 0.0 | -2.0 |
| Rhode Island | 3.9 | 3.8 | 3.7 | 4.0 | 3.8 | 3.6 | 3.3 | 3.2 | 3.2 | -0.3 | 0.8 | -0.5 | -1.7 |
| Connecticut | 3.7 | 3.6 | 3.4 | 3.4 | 3.5 | 3.3 | 3.0 | 3.0 | 2.9 | -0.4 | 0.0 | 0.3 | -1.9 |
| Middle Atlantic | 3.9 | 3.8 | 4.0 | 4.4 | 4.6 | 4.4 | 4.1 | 4.1 | 4.2 | 0.1 | 1.0 | 0.4 | -0.9 |
| New York | 4.3 | 4.1 | 4.3 | 4.6 | 4.5 | 4.4 | 4.2 | 4.2 | 4.2 | 0.0 | 0.7 | -0.2 | -0.7 |
| New Jersey | 3.5 | 3.2 | 3.1 | 3.6 | 4.2 | 3.9 | 3.7 | 3.7 | 3.7 | -0.6 | 1.5 | 1.6 | -1.3 |
| Pennsylvania | 3.5 | 3.8 | 4.1 | 4.7 | 4.8 | 4.7 | 4.4 | 4.3 | 4.4 | 0.8 | 1.4 | 0.2 | -0.9 |
| East North Central | 3.2 | 3.2 | 3.6 | 4.4 | 4.7 | 4.5 | 4.1 | 4.0 | 3.9 | 0.6 | 2.0 | 0.7 | -1.8 |
| Ohio | 2.7 | 2.9 | 3.4 | 4.2 | 4.7 | 4.6 | 4.2 | 4.0 | 4.0 | 1.2 | 2.1 | 1.1 | -1.6 |
| Indiana | 2.3 | 2.6 | 3.1 | 4.0 | 4.5 | 4.2 | 4.1 | 3.9 | 3.9 | 1.5 | 2.6 | 1.2 | -1.4 |
| Illinois | 3.4 | 3.6 | 4.0 | 4.7 | 5.1 | 4.7 | 4.3 | 4.1 | 4.0 | 0.8 | 1.6 | 0.8 | -2.4 |
| Michigan | 4.0 | 3.3 | 3.3 | 4.3 | 4.4 | 4.1 | 3.8 | 3.7 | 3.7 | -1.0 | 2.7 | 0.2 | -1.7 |
| Wisconsin | 3.4 | 3.7 | 4.3 | 5.2 | 4.9 | 4.6 | 4.0 | 3.9 | 3.8 | 1.2 | 1.9 | -0.6 | -2.5 |
| West North Central | 3.1 | 3.7 | 4.3 | 5.7 | 5.8 | 5.4 | 5.1 | 4.9 | 4.9 | 1.6 | 2.9 | 0.2 | -1.7 |
| Minnesota | 3.9 | 4.4 | 4.8 | 6.1 | 5.7 | 5.2 | 4.8 | 4.5 | 4.4 | 1.0 | 2.4 | -0.7 | -2.6 |
| Iowa | 2.7 | 3.2 | 3.9 | 5.6 | 5.7 | 5.2 | 5.2 | 5.0 | 5.1 | 1.9 | 3.7 | 0.2 | -1.1 |
| Missouri | 2.9 | 3.3 | 3.9 | 5.1 | 5.7 | 5.2 | 4.9 | 4.8 | 4.8 | 1.5 | 2.7 | 1.1 | -1.7 |
| North Dakota | 3.5 | 4.3 | 5.2 | 6.8 | 7.4 | 7.4 | 7.0 | 7.0 | 7.0 | 2.0 | 2.7 | 0.8 | -0.6 |
| South Dakota | 2.8 | 4.4 | 4.5 | 5.6 | 5.5 | 6.6 | 5.6 | 5.8 | 6.1 | 2.4 | 2.2 | -0.2 | 1.0 |
| Nebraska | 3.4 | 4.2 | 4.4 | 6.2 | 6.0 | 6.0 | 5.8 | 5.5 | 5.4 | 1.3 | 3.5 | -0.3 | -1.0 |
| Kansas | 2.8 | 3.4 | 4.2 | 5.4 | 5.8 | 5.2 | 4.7 | 4.8 | 4.8 | 2.0 | 2.5 | 0.7 | -1.9 |
| South Atlantic | 2.5 | 2.8 | 3.3 | 4.0 | 4.5 | 4.1 | 3.8 | 3.7 | 3.7 | 1.4 | 1.9 | 1.2 | -1.9 |
| Delaware | 4.4 | 3.9 | 3.7 | 3.7 | 3.6 | 3.5 | 3.1 | 3.0 | 3.0 | -0.9 | 0.0 | -0.3 | -1.8 |
| Maryland | 3.9 | 3.6 | 3.3 | 3.1 | 3.6 | 3.4 | 2.9 | 2.9 | 2.9 | -0.8 | -0.6 | 1.5 | -2.1 |
| District of Columbia | 5.5 | 5.5 | 5.9 | 7.4 | 7.3 | 7.8 | 7.8 | 7.9 | 7.5 | 0.4 | 2.3 | -0.1 | 0.3 |
| Virginia | 2.2 | 2.5 | 3.0 | 3.7 | 4.1 | 3.8 | 3.5 | 3.4 | 3.3 | 1.6 | 2.1 | 1.0 | -2.1 |
| West Virginia | 2.7 | 3.1 | 4.1 | 5.4 | 5.5 | 5.1 | 4.7 | 4.7 | 4.7 | 2.1 | 2.8 | 0.2 | -1.6 |
| North Carolina | 2.2 | 2.6 | 3.4 | 3.8 | 4.2 | 3.7 | 3.4 | 3.4 | 3.4 | 2.2 | 1.1 | 1.0 | -2.1 |
| South Carolina | 1.8 | 2.4 | 2.9 | 3.7 | 3.9 | 3.6 | 3.3 | 3.2 | 3.3 | 2.4 | 2.5 | 0.5 | -1.7 |
| Georgia | 1.7 | 2.0 | 2.8 | 3.8 | 4.6 | 4.3 | 4.1 | 4.1 | 4.0 | 2.5 | 3.1 | 1.9 | -1.4 |
| Florida | 2.8 | 2.9 | 3.1 | 4.4 | 5.1 | 4.6 | 4.2 | 4.0 | 4.0 | 0.5 | 3.6 | 1.5 | -2.4 |
| East South Central | 1.7 | 2.1 | 3.0 | 4.4 | 5.1 | 5.0 | 4.7 | 4.7 | 4.8 | 2.9 | 3.9 | 1.5 | -0.6 |
| Kentucky | 1.8 | 2.2 | 3.0 | 4.0 | 4.5 | 4.4 | 4.3 | 4.3 | 4.4 | 2.6 | 2.9 | 1.2 | -0.2 |
| Tennessee | 1.9 | 2.3 | 3.4 | 4.7 | 5.5 | 5.3 | 4.8 | 4.8 | 4.9 | 3.0 | 3.3 | 1.6 | -1.1 |
| Alabama | 1.5 | 2.0 | 2.8 | 4.3 | 5.1 | 5.0 | 4.6 | 4.6 | 4.6 | 3.2 | 4.4 | 1.7 | -1.0 |
| Mississippi | 1.4 | 1.7 | 2.9 | 4.4 | 5.3 | 5.2 | 5.4 | 5.2 | 5.3 | 3.7 | 4.3 | 1.9 | 0.0 |
| West South Central | 2.1 | 2.7 | 3.3 | 4.3 | 4.7 | 4.2 | 3.9 | 3.8 | 3.9 | 2.3 | 2.7 | 0.9 | -1.8 |
| Arkansas | 1.4 | 1.6 | 2.9 | 4.2 | 5.0 | 4.8 | 4.5 | 4.5 | 4.7 | 3.7 | 3.8 | 1.8 | -0.6 |
| Louisiana | 3.1 | 3.8 | 3.9 | 4.2 | 4.8 | 4.6 | 4.4 | 4.4 | 4.6 | 1.2 | 0.7 | 1.3 | -0.4 |
| Oklahoma | 1.9 | 2.5 | 3.2 | 4.5 | 4.6 | 4.1 | 4.0 | 3.9 | 4.0 | 2.6 | 3.5 | 0.2 | -1.4 |
| Texas | 2.0 | 2.7 | 3.3 | 4.3 | 4.7 | 4.1 | 3.7 | 3.6 | 3.5 | 2.5 | 2.7 | 0.9 | -2.9 |
| Mountain | 3.6 | 3.8 | 3.5 | 4.3 | 3.8 | 3.5 | 3.3 | 3.1 | 3.1 | -0.1 | 2.1 | -1.2 | -2.0 |
| Montana | 4.9 | 5.3 | 5.1 | 5.8 | 5.9 | 5.5 | 5.6 | 5.7 | 5.8 | 0.2 | 1.3 | 0.2 | -0.2 |
| Idaho | 2.6 | 3.4 | 3.2 | 4.0 | 3.7 | 3.5 | 3.2 | 3.2 | 3.2 | 1.0 | 2.3 | -0.8 | -1.4 |
| Wyoming | 3.5 | 3.9 | 4.6 | 5.5 | 5.6 | 4.3 | 4.8 | 4.7 | 4.9 | 1.4 | 1.8 | -4.1 | 3.1 |
| Colorado | 3.9 | 4.2 | 3.8 | 4.6 | 4.2 | 3.6 | 3.3 | 3.0 | 3.2 | -0.1 | 1.9 | -0.9 | -2.7 |
| New Mexico | 2.7 | 2.2 | 2.9 | 3.5 | 3.1 | 2.9 | 2.8 | 2.9 | 2.9 | 0.4 | 1.9 | -1.2 | -0.7 |
| Arizona | 3.4 | 4.0 | 3.0 | 4.1 | 3.6 | 3.2 | 2.9 | 2.8 | 2.7 | -0.6 | 3.2 | -1.3 | -2.8 |
| Utah | 3.2 | 2.9 | 2.8 | 3.6 | 3.1 | 2.7 | 2.7 | 2.6 | 2.6 | -0.7 | 2.5 | -1.5 | -1.7 |
| Nevada | 5.0 | 4.4 | 3.9 | 4.2 | 3.7 | 3.2 | 3.0 | 2.9 | -1.2 | 0.7 | 0.0 | -3.6 | -3.6 |
| Pacific | 4.1 | 3.2 | 3.1 | 3.7 | 3.5 | 3.2 | 2.9 | 2.8 | 2.7 | -1.4 | 1.8 | -0.6 | -2.6 |
| Washington | 3.4 | 3.6 | 3.3 | 3.5 | 3.1 | 3.0 | 2.7 | 2.6 | 2.5 | -0.1 | 0.6 | -1.2 | -2.1 |
| Oregon | 3.5 | 3.1 | 3.5 | 4.0 | 3.5 | 3.2 | 2.9 | 2.9 | 2.9 | 0.0 | 1.3 | -1.3 | -1.9 |
| California | 4.4 | 3.3 | 3.0 | 3.8 | 3.6 | 3.2 | 2.9 | 2.9 | 2.7 | -1.9 | 2.4 | -0.5 | -2.8 |
| Alaska | ... | 2.4 | 2.3 | 2.7 | 2.2 | 2.4 | 2.5 | 2.3 | 2.3 | ... | -0.4 | 1.6 | -1.6 |
| Hawaii | ... | 3.7 | 3.4 | 3.1 | 2.8 | 2.7 | 2.7 | 2.8 | 2.8 | ... | -0.8 | -0.9 | -1.0 |

¹1940 and 1950 data are estimated based on published figures.

²1960 includes hospital units of institutions.

SOURCES: American Medical Association: Hospital service in the United States. JAMA 116(11):1055–1144, 1941, and 146(2):109–184, 1951. (Copyright 1941 and 1951; Used with the permission of the American Medical Association.); American Hospital Association: Hospitals. JAHA 35(15):383–430, Aug. 1, 1961. (Copyright 1961; Used with the permission of the American Hospital Association.); Data computed by the Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Analysis from data compiled by the Division of Health Care Statistics, National Master Facility Inventory and the American Hospital Association 1990 annual survey; U.S. Bureau of the Census: Current Population Reports, Series P-25, Nos. 72, 304, 460, 640, 970, 1010, 1044, and 1058. Washington, U.S. Government Printing Office, 1953, 1965, 1971, 1976, 1980, 1985, 1989, and 1990.

Table 111. Occupancy rates in community hospitals and average annual percent change, according to geographic division and State: United States, selected years 1940–90

[Data are based on reporting by facilities]

| Geographic division and State | Percent of beds occupied | | | | | | | | | Average annual percent change | | | |
|--------------------------------|--------------------------|-------------------|------|------|------|------|------|------|------------------------|-------------------------------|---------|---------|--|
| | 1940 ¹ | 1960 ² | 1970 | 1980 | 1985 | 1988 | 1989 | 1990 | 1940–60 ^{1,2} | 1960–70 ² | 1970–80 | 1980–90 | |
| United States | 69.9 | 74.7 | 77.3 | 75.2 | 65.1 | 65.7 | 66.1 | 66.7 | 0.3 | 0.3 | -0.3 | -1.2 | |
| New England | 72.5 | 75.2 | 79.7 | 80.1 | 72.8 | 73.6 | 74.9 | 74.3 | 0.2 | 0.6 | 0.1 | -0.7 | |
| Maine | 72.4 | 73.2 | 73.0 | 74.5 | 66.8 | 70.8 | 71.4 | 71.6 | 0.1 | -0.0 | 0.2 | -0.4 | |
| New Hampshire | 65.3 | 66.5 | 73.4 | 73.2 | 63.4 | 65.7 | 66.8 | 67.0 | 0.1 | 1.0 | -0.0 | -0.9 | |
| Vermont | 68.8 | 68.5 | 76.3 | 73.7 | 68.0 | 66.8 | 65.9 | 66.9 | -0.0 | 1.1 | -0.3 | -1.0 | |
| Massachusetts | 71.8 | 75.8 | 80.3 | 81.7 | 74.1 | 73.4 | 75.7 | 74.6 | 0.3 | 0.6 | 0.2 | -0.9 | |
| Rhode Island | 77.7 | 75.7 | 82.9 | 85.9 | 76.2 | 83.2 | 79.9 | 79.5 | -0.1 | 0.9 | 0.4 | -0.8 | |
| Connecticut | 75.9 | 78.2 | 82.6 | 80.4 | 75.4 | 76.4 | 77.7 | 77.0 | 0.1 | 0.5 | -0.3 | -0.4 | |
| Middle Atlantic | 75.5 | 78.1 | 82.4 | 83.2 | 77.1 | 79.4 | 79.8 | 80.2 | 0.2 | 0.5 | 0.1 | -0.4 | |
| New York | 78.9 | 79.4 | 82.9 | 85.9 | 83.9 | 85.4 | 85.6 | 85.7 | 0.0 | 0.4 | 0.4 | -0.0 | |
| New Jersey | 72.4 | 78.4 | 82.5 | 82.8 | 74.8 | 78.2 | 79.3 | 80.0 | 0.4 | 0.5 | 0.0 | -0.3 | |
| Pennsylvania | 71.3 | 76.0 | 81.5 | 79.5 | 68.7 | 71.3 | 71.8 | 72.6 | 0.3 | 0.7 | -0.2 | -0.9 | |
| East North Central | 71.0 | 78.4 | 79.5 | 76.9 | 64.2 | 63.8 | 63.9 | 64.8 | 0.5 | 0.1 | -0.3 | -1.7 | |
| Ohio | 72.1 | 81.3 | 81.8 | 79.2 | 63.9 | 65.5 | 65.0 | 64.8 | 0.6 | 0.1 | -0.3 | -2.0 | |
| Indiana | 68.5 | 79.6 | 80.3 | 77.6 | 61.6 | 58.3 | 59.8 | 60.6 | 0.8 | 0.1 | -0.3 | -2.4 | |
| Illinois | 73.1 | 76.0 | 79.3 | 74.9 | 64.4 | 63.1 | 63.8 | 66.1 | 0.2 | 0.4 | -0.6 | -1.2 | |
| Michigan | 71.5 | 80.5 | 80.6 | 78.2 | 67.4 | 66.2 | 65.7 | 65.5 | 0.6 | 0.0 | -0.3 | -1.8 | |
| Wisconsin | 65.2 | 73.9 | 73.2 | 73.6 | 61.8 | 63.5 | 63.2 | 64.9 | 0.6 | -0.1 | 0.1 | -1.3 | |
| West North Central | 65.7 | 71.8 | 73.6 | 71.2 | 60.3 | 60.9 | 61.5 | 61.9 | 0.4 | 0.2 | -0.3 | -1.4 | |
| Minnesota | 71.0 | 72.3 | 73.9 | 73.7 | 63.8 | 64.1 | 65.9 | 66.9 | 0.1 | 0.2 | -0.0 | -1.0 | |
| Iowa | 63.6 | 72.6 | 71.9 | 68.7 | 57.3 | 60.8 | 61.9 | 61.6 | 0.7 | -0.1 | -0.5 | -1.1 | |
| Missouri | 68.6 | 75.8 | 79.3 | 75.1 | 63.0 | 61.9 | 62.5 | 61.7 | 0.5 | 0.5 | -0.5 | -1.9 | |
| North Dakota | 61.9 | 71.3 | 67.1 | 68.6 | 61.1 | 64.1 | 63.1 | 64.5 | 0.7 | -0.6 | 0.2 | -0.6 | |
| South Dakota | 59.1 | 66.0 | 66.3 | 60.6 | 57.5 | 59.4 | 60.8 | 62.1 | 0.6 | 0.0 | -0.9 | 0.2 | |
| Nebraska | 59.0 | 65.6 | 69.9 | 67.4 | 58.4 | 56.1 | 55.9 | 58.6 | 0.5 | 0.6 | -0.4 | -1.4 | |
| Kansas | 60.4 | 69.1 | 71.4 | 68.8 | 54.3 | 56.5 | 55.5 | 55.8 | 0.7 | 0.3 | -0.4 | -2.1 | |
| South Atlantic | 66.7 | 74.8 | 77.9 | 75.5 | 65.5 | 66.6 | 66.6 | 67.2 | 0.6 | 0.4 | -0.3 | -1.2 | |
| Delaware | 59.2 | 70.2 | 78.8 | 81.8 | 68.0 | 77.2 | 75.7 | 76.5 | 0.9 | 1.2 | 0.4 | -0.7 | |
| Maryland | 74.6 | 73.9 | 79.3 | 84.0 | 73.5 | 77.8 | 78.3 | 78.1 | -0.0 | 0.7 | 0.6 | -0.7 | |
| District of Columbia | 76.2 | 80.8 | 77.7 | 83.0 | 75.9 | 75.9 | 79.7 | 76.1 | 0.3 | -0.4 | 0.7 | -0.9 | |
| Virginia | 70.0 | 78.0 | 81.1 | 77.8 | 67.2 | 67.3 | 66.4 | 67.2 | 0.5 | 0.4 | -0.4 | -1.5 | |
| West Virginia | 62.1 | 74.5 | 79.3 | 75.6 | 60.7 | 60.8 | 60.3 | 62.7 | 0.9 | 0.6 | -0.5 | -1.9 | |
| North Carolina | 64.6 | 73.9 | 78.5 | 77.8 | 64.9 | 71.3 | 72.2 | 73.0 | 0.7 | 0.6 | -0.1 | -0.6 | |
| South Carolina | 69.1 | 76.9 | 76.4 | 77.0 | 67.7 | 67.0 | 69.1 | 70.5 | 0.5 | -0.1 | 0.1 | -0.9 | |
| Georgia | 62.7 | 71.7 | 76.5 | 70.4 | 64.4 | 65.7 | 65.0 | 65.1 | 0.7 | 0.7 | -0.8 | -0.8 | |
| Florida | 57.5 | 73.9 | 76.2 | 71.7 | 62.5 | 61.5 | 61.0 | 61.6 | 1.3 | 0.3 | -0.6 | -1.5 | |
| East South Central | 62.6 | 71.8 | 78.2 | 74.6 | 62.7 | 61.2 | 61.4 | 62.2 | 0.7 | 0.9 | -0.5 | -1.8 | |
| Kentucky | 61.6 | 73.4 | 79.6 | 77.4 | 64.0 | 60.8 | 61.1 | 61.7 | 0.9 | 0.8 | -0.3 | -2.2 | |
| Tennessee | 65.5 | 75.9 | 78.2 | 75.9 | 64.6 | 64.8 | 64.4 | 63.9 | 0.7 | 0.3 | -0.3 | -1.7 | |
| Alabama | 59.0 | 70.8 | 80.0 | 73.3 | 62.3 | 60.1 | 60.7 | 62.6 | 0.9 | 1.2 | -0.9 | -1.6 | |
| Mississippi | 63.8 | 62.8 | 73.6 | 70.5 | 58.1 | 57.1 | 57.5 | 59.2 | -0.1 | 1.6 | -0.4 | -1.7 | |
| West South Central | 62.5 | 68.7 | 73.2 | 69.7 | 56.9 | 55.9 | 56.9 | 57.8 | 0.5 | 0.6 | -0.5 | -1.9 | |
| Arkansas | 55.6 | 70.0 | 74.4 | 69.6 | 56.0 | 56.8 | 59.2 | 61.7 | 1.2 | 0.6 | -0.7 | -1.2 | |
| Louisiana | 75.0 | 67.9 | 73.6 | 69.7 | 58.6 | 55.8 | 56.4 | 57.4 | -0.5 | 0.8 | -0.5 | -1.9 | |
| Oklahoma | 54.5 | 71.0 | 72.5 | 68.1 | 56.2 | 57.2 | 58.0 | 57.9 | 1.3 | 0.2 | -0.6 | -1.6 | |
| Texas | 59.6 | 68.2 | 73.0 | 70.1 | 56.6 | 55.5 | 56.4 | 57.3 | 0.7 | 0.7 | -0.4 | -2.0 | |
| Mountain | 60.9 | 69.9 | 71.2 | 69.6 | 58.6 | 59.7 | 60.6 | 60.5 | 0.7 | 0.2 | -0.2 | -1.4 | |
| Montana | 62.8 | 60.3 | 65.9 | 66.1 | 59.1 | 62.6 | 61.5 | 61.8 | -0.2 | 0.9 | 0.0 | -0.7 | |
| Idaho | 65.4 | 55.9 | 66.1 | 65.2 | 56.6 | 56.7 | 55.2 | 55.9 | -0.8 | 1.7 | -0.1 | -1.5 | |
| Wyoming | 47.5 | 61.1 | 63.1 | 57.2 | 52.0 | 50.5 | 53.0 | 53.7 | 1.3 | 0.3 | -1.0 | -0.6 | |
| Colorado | 62.1 | 80.6 | 74.0 | 71.6 | 59.0 | 60.7 | 63.8 | 63.3 | 1.3 | -0.9 | -0.3 | -1.2 | |
| New Mexico | 47.8 | 65.1 | 69.8 | 66.2 | 60.0 | 57.9 | 59.0 | 57.4 | 1.6 | 0.7 | -0.5 | -1.4 | |
| Arizona | 61.2 | 74.2 | 73.3 | 74.2 | 61.5 | 63.6 | 62.8 | 62.4 | 1.0 | -0.1 | 0.1 | -1.7 | |
| Utah | 65.8 | 70.0 | 73.7 | 70.0 | 58.7 | 56.6 | 58.1 | 58.8 | 0.3 | 0.5 | -0.5 | -1.7 | |
| Nevada | 67.9 | 70.7 | 72.7 | 68.8 | 52.6 | 55.9 | 58.3 | 59.5 | 0.2 | 0.3 | -0.5 | -1.4 | |
| Pacific | 69.7 | 71.4 | 71.0 | 69.0 | 61.6 | 63.6 | 63.4 | 63.5 | 0.1 | -0.1 | -0.3 | -0.8 | |
| Washington | 67.5 | 63.4 | 69.7 | 71.7 | 58.5 | 59.9 | 61.2 | 62.4 | -0.3 | 1.0 | 0.3 | -1.4 | |
| Oregon | 71.2 | 65.8 | 69.3 | 69.3 | 55.6 | 56.4 | 58.2 | 56.4 | -0.4 | 0.5 | 0.0 | -2.0 | |
| California | 69.9 | 74.3 | 71.3 | 68.5 | 62.3 | 64.4 | 63.8 | 63.8 | 0.3 | -0.4 | -0.4 | -0.7 | |
| Alaska | 53.8 | 59.1 | 58.3 | 62.6 | 49.7 | 48.8 | 49.9 | 49.9 | ... | 0.9 | -0.1 | -1.5 | |
| Hawaii | 61.5 | 75.7 | 74.7 | 76.4 | 83.5 | 83.2 | 84.4 | 84.4 | ... | 2.1 | -0.1 | 1.2 | |

¹1940 data are estimated based on published figures.

²1960 includes hospital units of institutions.

SOURCES: American Medical Association: Hospital service in the United States. JAMA 116(11):1055–1144, 1941. (Copyright 1941: Used with the permission of the American Medical Association.); American Hospital Association: Hospitals. JAHA 35(15):383–430, Aug. 1, 1961. (Copyright 1961: Used with the permission of the American Hospital Association.); Data computed by the Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Analysis from data compiled by the Division of Health Care Statistics, National Master Facility Inventory and the American Hospital Association 1990 annual survey.

Table 112. Full-time equivalent employees per 100 average daily patients in community hospitals and average annual percent change, according to geographic division and State: United States, selected years 1960–90

[Data are based on reporting by facilities]

| Geographic division and State | Employees per 100 average daily patients | | | | | | | Average annual percent change | | |
|--------------------------------|--|------|------|------|------|------|------|-------------------------------|---------|---------|
| | 1960 ¹ | 1970 | 1980 | 1985 | 1988 | 1989 | 1990 | 1960–70 ¹ | 1970–80 | 1980–90 |
| United States | 226 | 302 | 394 | 472 | 526 | 546 | 563 | 2.9 | 2.7 | 3.6 |
| New England | 249 | 351 | 456 | 532 | 599 | 617 | 619 | 3.5 | 2.7 | 3.1 |
| Maine | 227 | 289 | 409 | 494 | 534 | 550 | 551 | 2.4 | 3.5 | 3.0 |
| New Hampshire | 240 | 310 | 400 | 517 | 558 | 581 | 595 | 2.6 | 2.6 | 4.1 |
| Vermont | 227 | 318 | 348 | 434 | 528 | 553 | 574 | 3.4 | 0.9 | 5.1 |
| Massachusetts | 252 | 365 | 488 | 547 | 632 | 651 | 643 | 3.8 | 2.9 | 2.8 |
| Rhode Island | 270 | 383 | 454 | 547 | 549 | 579 | 601 | 3.6 | 1.7 | 2.8 |
| Connecticut | 247 | 347 | 440 | 529 | 594 | 605 | 618 | 3.5 | 2.4 | 3.5 |
| Middle Atlantic | 225 | 311 | 383 | 450 | 494 | 507 | 518 | 3.3 | 2.1 | 3.1 |
| New York | 233 | 336 | 396 | 436 | 480 | 492 | 505 | 3.7 | 1.7 | 2.5 |
| New Jersey | 225 | 278 | 332 | 423 | 453 | 465 | 474 | 2.1 | 1.8 | 3.6 |
| Pennsylvania | 214 | 287 | 390 | 491 | 544 | 559 | 567 | 3.0 | 3.1 | 3.8 |
| East North Central | 226 | 299 | 396 | 494 | 559 | 582 | 607 | 2.8 | 2.8 | 4.4 |
| Ohio | 232 | 302 | 392 | 526 | 579 | 605 | 635 | 2.7 | 2.6 | 4.9 |
| Indiana | 216 | 280 | 374 | 482 | 575 | 590 | 640 | 2.6 | 2.9 | 5.5 |
| Illinois | 226 | 301 | 407 | 492 | 553 | 569 | 586 | 2.9 | 3.1 | 3.7 |
| Michigan | 239 | 313 | 417 | 513 | 579 | 612 | 627 | 2.7 | 2.9 | 4.2 |
| Wisconsin | 199 | 277 | 367 | 405 | 471 | 497 | 521 | 3.4 | 2.9 | 3.6 |
| West North Central | 212 | 273 | 357 | 422 | 477 | 493 | 506 | 2.6 | 2.7 | 3.5 |
| Minnesota | 220 | 273 | 347 | 384 | 428 | 433 | 431 | 2.2 | 2.4 | 2.2 |
| Iowa | 208 | 258 | 349 | 427 | 468 | 478 | 504 | 2.2 | 3.1 | 3.7 |
| Missouri | 217 | 289 | 385 | 471 | 557 | 579 | 602 | 2.9 | 2.9 | 4.6 |
| North Dakota | 177 | 254 | 295 | 326 | 354 | 376 | 385 | 3.7 | 1.5 | 2.7 |
| South Dakota | 188 | 247 | 352 | 323 | 399 | 404 | 415 | 2.8 | 3.6 | 1.7 |
| Nebraska | 220 | 276 | 326 | 397 | 445 | 476 | 490 | 2.3 | 1.7 | 4.2 |
| Kansas | 210 | 270 | 368 | 478 | 508 | 525 | 538 | 2.5 | 3.1 | 3.9 |
| South Atlantic | 217 | 295 | 379 | 458 | 516 | 536 | 553 | 3.1 | 2.5 | 3.9 |
| Delaware | 243 | 328 | 405 | 526 | 601 | 608 | 665 | 3.0 | 2.1 | 5.1 |
| Maryland | 237 | 354 | 403 | 473 | 535 | 553 | 566 | 4.1 | 1.3 | 3.5 |
| District of Columbia | 240 | 363 | 483 | 599 | 619 | 614 | 623 | 4.2 | 2.9 | 2.6 |
| Virginia | 193 | 289 | 369 | 435 | 504 | 525 | 537 | 4.1 | 2.5 | 3.8 |
| West Virginia | 198 | 255 | 351 | 452 | 504 | 511 | 534 | 2.6 | 3.2 | 4.3 |
| North Carolina | 196 | 277 | 363 | 464 | 521 | 531 | 558 | 3.5 | 2.7 | 4.4 |
| South Carolina | 185 | 257 | 356 | 426 | 483 | 501 | 528 | 3.3 | 3.3 | 4.0 |
| Georgia | 233 | 294 | 396 | 458 | 499 | 524 | 542 | 2.4 | 3.0 | 3.2 |
| Florida | 245 | 295 | 375 | 450 | 514 | 546 | 555 | 1.9 | 2.4 | 4.0 |
| East South Central | 227 | 275 | 348 | 409 | 468 | 490 | 509 | 1.9 | 2.4 | 3.9 |
| Kentucky | 229 | 276 | 332 | 403 | 464 | 480 | 516 | 1.9 | 1.9 | 4.5 |
| Tennessee | 231 | 284 | 359 | 420 | 488 | 522 | 534 | 2.1 | 2.4 | 4.1 |
| Alabama | 233 | 266 | 357 | 410 | 477 | 494 | 514 | 1.3 | 3.0 | 3.7 |
| Mississippi | 207 | 270 | 334 | 392 | 422 | 435 | 444 | 2.7 | 2.1 | 2.9 |
| West South Central | 225 | 297 | 384 | 471 | 537 | 560 | 588 | 2.8 | 2.6 | 4.4 |
| Arkansas | 209 | 274 | 355 | 429 | 476 | 494 | 501 | 2.7 | 2.6 | 3.5 |
| Louisiana | 218 | 292 | 392 | 483 | 547 | 567 | 586 | 3.0 | 3.0 | 4.1 |
| Oklahoma | 218 | 296 | 404 | 480 | 529 | 548 | 585 | 3.1 | 3.2 | 3.8 |
| Texas | 232 | 304 | 383 | 473 | 547 | 574 | 607 | 2.7 | 2.3 | 4.7 |
| Mountain | 226 | 299 | 413 | 486 | 535 | 551 | 571 | 2.8 | 3.3 | 3.3 |
| Montana | 216 | 247 | 302 | 351 | 370 | 386 | 397 | 1.4 | 2.0 | 2.8 |
| Idaho | 255 | 281 | 374 | 427 | 491 | 524 | 543 | 1.0 | 2.9 | 3.8 |
| Wyoming | 217 | 251 | 445 | 417 | 437 | 447 | 467 | 1.5 | 5.9 | 0.5 |
| Colorado | 221 | 306 | 398 | 481 | 555 | 586 | 598 | 3.3 | 2.7 | 4.2 |
| New Mexico | 228 | 314 | 430 | 536 | 546 | 543 | 595 | 3.3 | 3.2 | 3.3 |
| Arizona | 222 | 327 | 455 | 523 | 564 | 571 | 590 | 3.9 | 3.4 | 2.6 |
| Utah | 243 | 304 | 460 | 579 | 661 | 669 | 702 | 2.3 | 4.2 | 4.3 |
| Nevada | 224 | 284 | 427 | 490 | 534 | 558 | 562 | 2.4 | 4.2 | 2.8 |
| Pacific | 243 | 327 | 467 | 545 | 578 | 602 | 625 | 3.0 | 3.6 | 3.0 |
| Washington | 263 | 313 | 428 | 544 | 613 | 617 | 666 | 1.8 | 3.2 | 4.5 |
| Oregon | 232 | 303 | 417 | 548 | 669 | 674 | 729 | 2.7 | 3.2 | 5.7 |
| California | 241 | 334 | 481 | 550 | 570 | 594 | 615 | 3.3 | 3.7 | 2.5 |
| Alaska | 220 | 301 | 454 | 515 | 584 | 599 | 639 | 3.2 | 4.2 | 3.5 |
| Hawaii | 226 | 278 | 401 | 435 | 457 | 580 | 508 | 2.1 | 3.7 | 2.4 |

¹1960 includes hospital units of institutions, but excludes students, interns, and residents.

SOURCES: American Hospital Association: Hospitals. JAHA 35(15):383–430, Aug. 1, 1961. (Copyright 1961; Used with the permission of the American Hospital Association.); Data computed by the Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Analysis from data compiled by the Division of Health Care Statistics, National Master Facility Inventory and the American Hospital Association 1990 annual survey.

Table 113. Nursing homes with 25 or more beds, beds, and bed rates, according to geographic division and State: United States, 1976, 1982, and 1986

[Data are based on reporting by facilities]

| Geographic division and State | Nursing homes | | | Beds | | | Bed rate ¹ | | |
|--------------------------------|---------------|--------|--------|-----------|-----------|-----------|-----------------------|---------|-------|
| | 1976 | 1982 | 1986 | 1976 | 1982 | 1986 | 1976 | 1982 | 1986 |
| United States | 14,133 | 14,565 | 16,033 | 1,291,632 | 1,469,357 | 1,615,771 | 681.4 | 603.0 | 582.2 |
| New England | 1,211 | 1,246 | 1,235 | 91,885 | 105,293 | 108,474 | 719.7 | 643.4 | 597.2 |
| Maine | 121 | 155 | 144 | 7,027 | 9,717 | 9,685 | 602.9 | 630.1 | 561.3 |
| New Hampshire | 68 | 70 | 75 | 5,633 | 6,729 | 6,987 | 702.1 | 636.4 | 557.4 |
| Vermont | 53 | 51 | 47 | 3,477 | 3,196 | 3,083 | 678.0 | 501.5 | 434.1 |
| Massachusetts | 645 | 620 | 612 | 47,169 | 50,366 | 51,126 | 744.0 | 634.2 | 585.4 |
| Rhode Island | 85 | 95 | 101 | 6,766 | 8,885 | 9,927 | 682.6 | 679.6 | 681.2 |
| Connecticut | 239 | 255 | 256 | 21,813 | 26,400 | 27,666 | 738.0 | 680.7 | 645.8 |
| Middle Atlantic | 1,567 | 1,587 | 1,921 | 187,435 | 210,010 | 243,962 | 554.3 | 491.9 | 517.0 |
| New York | 708 | 732 | 777 | 97,489 | 108,898 | 114,192 | 587.7 | 524.7 | 501.7 |
| New Jersey | 313 | 332 | 356 | 31,147 | 36,638 | 39,071 | 511.7 | 465.5 | 439.6 |
| Pennsylvania | 546 | 523 | 788 | 58,799 | 64,474 | 90,699 | 527.9 | 458.2 | 583.6 |
| East North Central | 2,904 | 2,966 | 2,999 | 281,144 | 326,171 | 330,342 | 786.4 | 730.3 | 666.5 |
| Ohio | 750 | 830 | 886 | 60,680 | 74,276 | 82,522 | 646.4 | 636.2 | 641.8 |
| Indiana | 420 | 449 | 449 | 35,799 | 47,196 | 47,257 | 747.5 | 807.3 | 724.0 |
| Illinois | 805 | 809 | 775 | 84,085 | 99,777 | 96,684 | 844.8 | 813.8 | 713.3 |
| Michigan | 508 | 471 | 480 | 53,966 | 55,349 | 53,651 | 782.5 | 628.4 | 542.7 |
| Wisconsin | 421 | 407 | 409 | 46,614 | 49,573 | 50,228 | 986.5 | 816.6 | 745.3 |
| West North Central | 1,965 | 2,171 | 2,142 | 157,057 | 185,774 | 187,781 | 772.8 | 734.6 | 683.6 |
| Minnesota | 385 | 390 | 399 | 38,177 | 42,500 | 44,357 | 862.1 | 735.5 | 697.3 |
| Iowa | 440 | 475 | 440 | 31,785 | 38,150 | 34,942 | 812.5 | 790.9 | 686.1 |
| Missouri | 408 | 530 | 552 | 32,539 | 46,403 | 50,204 | 602.4 | 705.7 | 692.0 |
| North Dakota | 82 | 80 | 81 | 6,413 | 6,402 | 6,789 | 901.8 | 730.2 | 718.9 |
| South Dakota | 117 | 116 | 114 | 8,047 | 7,938 | 7,918 | 897.6 | 706.0 | 652.9 |
| Nebraska | 210 | 225 | 214 | 18,408 | 18,516 | 18,132 | 898.7 | 726.7 | 665.4 |
| Kansas | 323 | 355 | 342 | 21,688 | 25,865 | 25,439 | 741.6 | 725.7 | 655.9 |
| South Atlantic | 1,475 | 1,745 | 2,152 | 142,245 | 177,495 | 212,382 | 539.2 | 485.5 | 484.1 |
| Delaware | 22 | 27 | 36 | 2,123 | 2,194 | 3,345 | 490.5 | 376.3 | 485.5 |
| Maryland | 165 | 179 | 200 | 18,559 | 21,164 | 24,402 | 685.9 | 584.4 | 575.2 |
| District of Columbia | 17 | 16 | 19 | 2,604 | 2,556 | 3,029 | 440.2 | 377.0 | 383.7 |
| Virginia | 208 | 267 | 288 | 23,816 | 29,251 | 29,653 | 696.8 | 652.7 | 561.8 |
| West Virginia | 73 | 95 | 103 | 4,858 | 7,505 | 8,692 | 281.0 | 356.2 | 374.6 |
| North Carolina | 276 | 346 | 402 | 20,903 | 28,156 | 34,049 | 569.1 | 560.5 | 562.5 |
| South Carolina | 102 | 130 | 157 | 8,311 | 11,560 | 14,071 | 507.1 | 515.9 | 518.1 |
| Georgia | 304 | 306 | 298 | 28,732 | 32,194 | 31,738 | 862.4 | 742.0 | 607.5 |
| Florida | 308 | 379 | 649 | 32,339 | 42,915 | 63,403 | 365.0 | 318.2 | 382.9 |
| East South Central | 856 | 865 | 887 | 66,994 | 85,565 | 90,180 | 579.0 | 589.1 | 541.4 |
| Kentucky | 267 | 276 | 277 | 19,929 | 25,837 | 26,426 | 646.5 | 681.5 | 621.3 |
| Tennessee | 258 | 251 | 267 | 19,448 | 26,111 | 28,599 | 556.9 | 576.2 | 544.7 |
| Alabama | 209 | 190 | 203 | 19,207 | 20,490 | 21,736 | 646.7 | 555.6 | 506.5 |
| Mississippi | 122 | 148 | 140 | 8,410 | 13,127 | 13,419 | 415.2 | 522.2 | 469.0 |
| West South Central | 1,740 | 1,789 | 1,922 | 157,173 | 177,237 | 189,920 | 912.1 | 802.5 | 736.3 |
| Arkansas | 208 | 200 | 237 | 19,322 | 19,327 | 21,910 | 861.1 | 689.7 | 703.2 |
| Louisiana | 200 | 224 | 276 | 18,969 | 24,836 | 32,747 | 713.9 | 748.7 | 836.4 |
| Oklahoma | 341 | 359 | 382 | 25,990 | 28,902 | 30,359 | 877.6 | 788.6 | 751.0 |
| Texas | 991 | 1,006 | 1,027 | 92,892 | 104,172 | 104,904 | 991.4 | 846.9 | 712.7 |
| Mountain | 495 | 529 | 631 | 41,881 | 47,857 | 57,414 | 597.9 | 503.5 | 506.1 |
| Montana | 69 | 59 | 57 | 4,725 | 5,120 | 4,804 | 584.3 | 553.3 | 491.5 |
| Idaho | 54 | 47 | 60 | 4,263 | 4,102 | 5,240 | 598.1 | 448.6 | 517.0 |
| Wyoming | 22 | 25 | 27 | 1,753 | 2,060 | 2,301 | 595.2 | 556.8 | 550.0 |
| Colorado | 174 | 157 | 183 | 17,792 | 16,848 | 18,402 | 873.1 | 644.3 | 610.2 |
| New Mexico | 30 | 31 | 56 | 2,489 | 2,351 | 4,915 | 360.0 | 241.5 | 416.5 |
| Arizona | 67 | 109 | 134 | 5,832 | 9,888 | 12,740 | 402.6 | 428.9 | 424.3 |
| Utah | 63 | 76 | 84 | 3,707 | 5,025 | 5,995 | 503.3 | 518.8 | 511.2 |
| Nevada | 16 | 25 | 30 | 1,320 | 2,463 | 3,017 | 481.6 | 570.5 | 534.5 |
| Pacific | 1,920 | 1,667 | 2,144 | 165,818 | 153,955 | 195,316 | 670.9 | 481.0 | 520.8 |
| Washington | 318 | 309 | 328 | 29,415 | 30,017 | 32,021 | 835.1 | 670.0 | 623.9 |
| Oregon | 202 | 177 | 214 | 15,758 | 15,711 | 17,404 | 660.1 | 503.9 | 495.1 |
| California | 1,369 | 1,148 | 1,569 | 118,144 | 105,325 | 143,179 | 646.1 | 445.5 | 512.7 |
| Alaska | 8 | 10 | 10 | 738 | 1,031 | 1,082 | 1,232.1 | 1,458.3 | 950.0 |
| Hawaii | 23 | 23 | 23 | 1,763 | 1,871 | 1,630 | 384.0 | 269.4 | 200.5 |

¹Number of beds per 1,000 resident population 85 years of age and over.

NOTE: The 1982 inventory excluded certain types of nursing homes that the 1976 and 1986 inventories included (nursing home units of hospitals, nursing homes for the blind, etc.). To make the data comparable, these types of homes and their beds were subtracted from the 1976 and 1986 figures.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Care Statistics: Trends in nursing and related care homes and hospitals, United States, selected years 1969–80, by G. W. Strahan. Vital and Health Statistics. Series 14, No. 30. DHHS Pub. No. (PHS) 84-1825. Public Health Service, Washington, U.S. Government Printing Office, Mar. 1984; nursing and related care homes as reported from the 1982 National Master Facility Inventory Survey, by D. A. Roper. Vital and Health Statistics. Series 14, No. 32. DHHS Pub. No. (PHS) 86-1827. Public Health Service, Washington, U.S. Government Printing Office, Sept. 1986; data from the National Master Facility Inventory; final data from the 1986 Inventory of Long-term Care Places; resident population computed by the Division of Analysis, National Center for Health Statistics from the Compressed Mortality File, a county-level national mortality and population data base.

Table 114. Gross domestic product, national health expenditures, and Federal and State and local government expenditures: United States, selected years 1960–91

[Data are compiled by the Health Care Financing Administration]

| Year | National health expenditures | | | Federal government expenditures | | | State and local government expenditures | | | |
|-----------|------------------------------------|--------------------|-----------------------------------|---------------------------------|-------------------|--------------------|---|-------------------|--------------------|------------------------------|
| | Gross domestic product in billions | Amount in billions | Percent of gross domestic product | Amount per capita | Total in billions | Health in billions | Health as a percent of total | Total in billions | Health in billions | Health as a percent of total |
| 1960..... | \$513.4 | \$27.1 | 5.3 | \$143 | \$93.4 | \$2.9 | 3.1 | \$48.3 | \$3.7 | 7.8 |
| 1965..... | 702.7 | 41.6 | 5.9 | 204 | 124.6 | 4.8 | 3.9 | 72.3 | 5.5 | 7.6 |
| 1966..... | 769.8 | 45.9 | 6.0 | 222 | 144.9 | 7.5 | 5.2 | 81.1 | 6.1 | 7.5 |
| 1967..... | 814.3 | 51.7 | 6.3 | 248 | 165.2 | 12.2 | 7.4 | 90.9 | 6.9 | 7.6 |
| 1968..... | 889.3 | 58.5 | 6.6 | 278 | 181.5 | 14.1 | 7.8 | 102.6 | 7.7 | 7.5 |
| 1969..... | 959.5 | 65.7 | 6.9 | 309 | 191.0 | 16.1 | 8.4 | 113.3 | 8.5 | 7.5 |
| 1970..... | 1,010.7 | 74.4 | 7.4 | 346 | 208.5 | 17.7 | 8.5 | 127.2 | 9.9 | 7.8 |
| 1971..... | 1,097.2 | 82.3 | 7.5 | 379 | 224.3 | 20.4 | 9.1 | 142.8 | 10.8 | 7.6 |
| 1972..... | 1,207.0 | 92.3 | 7.6 | 421 | 249.3 | 22.9 | 9.2 | 156.3 | 12.2 | 7.8 |
| 1973..... | 1,349.6 | 102.5 | 7.6 | 464 | 270.3 | 25.2 | 9.3 | 171.9 | 14.1 | 8.2 |
| 1974..... | 1,458.6 | 116.1 | 8.0 | 521 | 305.6 | 30.5 | 10.0 | 193.5 | 16.1 | 8.3 |
| 1975..... | 1,585.9 | 132.9 | 8.4 | 592 | 364.2 | 36.4 | 10.0 | 221.0 | 18.7 | 8.5 |
| 1976..... | 1,768.4 | 152.2 | 8.6 | 672 | 392.7 | 42.9 | 10.9 | 239.3 | 19.5 | 8.1 |
| 1977..... | 1,974.1 | 172.0 | 8.7 | 753 | 426.4 | 47.6 | 11.2 | 256.3 | 22.5 | 8.8 |
| 1978..... | 2,232.7 | 193.7 | 8.7 | 840 | 469.3 | 54.3 | 11.6 | 278.2 | 25.5 | 9.1 |
| 1979..... | 2,488.6 | 217.2 | 8.7 | 933 | 520.3 | 61.4 | 11.8 | 305.4 | 28.9 | 9.5 |
| 1980..... | 2,708.0 | 250.1 | 9.2 | 1,064 | 613.1 | 72.0 | 11.7 | 336.6 | 33.2 | 9.9 |
| 1981..... | 3,030.6 | 290.2 | 9.6 | 1,222 | 697.8 | 84.0 | 12.0 | 362.3 | 37.8 | 10.4 |
| 1982..... | 3,149.6 | 326.1 | 10.4 | 1,359 | 770.9 | 93.3 | 12.1 | 382.1 | 41.5 | 10.9 |
| 1983..... | 3,405.0 | 358.6 | 10.5 | 1,480 | 840.0 | 103.2 | 12.3 | 403.2 | 44.4 | 11.0 |
| 1984..... | 3,777.2 | 389.6 | 10.3 | 1,592 | 892.7 | 112.6 | 12.6 | 434.1 | 47.0 | 10.8 |
| 1985..... | 4,038.7 | 422.6 | 10.5 | 1,711 | 969.9 | 123.5 | 12.7 | 472.6 | 51.2 | 10.8 |
| 1986..... | 4,268.6 | 454.9 | 10.7 | 1,824 | 1,028.2 | 132.5 | 12.9 | 517.0 | 57.2 | 11.1 |
| 1987..... | 4,539.9 | 494.2 | 10.9 | 1,962 | 1,065.6 | 143.6 | 13.5 | 554.2 | 64.4 | 11.6 |
| 1988..... | 4,900.4 | 546.1 | 11.1 | 2,146 | 1,109.0 | 156.6 | 14.1 | 593.0 | 70.5 | 11.9 |
| 1989..... | 5,250.8 | 604.3 | 11.5 | 2,352 | 1,181.6 | 175.0 | 14.8 | 636.7 | 78.3 | 12.3 |
| 1990..... | 5,522.2 | 675.0 | 12.2 | 2,601 | 1,273.6 | 194.5 | 15.3 | 699.2 | 90.5 | 12.9 |
| 1991..... | 5,677.5 | 751.8 | 13.2 | 2,868 | 1,332.7 | 222.9 | 16.7 | 760.7 | 107.1 | 14.1 |

NOTES: These data include revisions in health expenditures back to 1985 and in population back to 1960 and differ from previous editions of Health, United States. These data reflect Bureau of Economic Analysis, Department of Commerce revisions to the gross domestic product and Federal and State and local government expenditures as of July 1992 and Social Security Administration population revisions as of July 1992.

SOURCE: Office of National Health Statistics, Office of the Actuary: National health expenditures, 1991. Health Care Financing Review. Vol. 14, Number 2. HCFA Pub. No. 03395. Health Care Financing Administration. Washington. U.S. Government Printing Office, Winter 1992.

Table 115. Total health expenditures as a percent of gross domestic product and per capita expenditures in dollars: Selected countries and years 1960–91

[Data compiled by the Organization for Economic Cooperation and Development]

| Country | 1960 | 1965 | 1970 | 1975 | 1980 | 1985 | 1988 | 1989 | 1990 | 1991 ¹ |
|--|------|-------|-------|-------|-------|-------|---------|---------|---------|-------------------|
| Health expenditures as a percent of gross domestic product | | | | | | | | | | |
| Australia | 4.9 | 5.1 | 5.7 | 7.5 | 7.3 | 7.7 | 7.7 | 7.8 | 8.2 | 8.6 |
| Austria | 4.4 | 4.7 | 5.4 | 7.3 | 7.9 | 8.1 | 8.4 | 8.4 | 8.3 | 8.4 |
| Belgium | 3.4 | 3.9 | 4.1 | 5.9 | 6.6 | 7.4 | 7.7 | 7.6 | 7.6 | 7.9 |
| Canada | 5.5 | 6.0 | 7.1 | 7.2 | 7.4 | 8.5 | 8.8 | 9.0 | 9.5 | 10.0 |
| Denmark | 3.6 | 4.8 | 6.1 | 6.5 | 6.8 | 6.3 | 6.5 | 6.5 | 6.3 | 6.5 |
| Finland | 3.9 | 4.9 | 5.7 | 6.3 | 6.5 | 7.2 | 7.2 | 7.2 | 7.8 | 8.9 |
| France | 4.2 | 5.2 | 5.8 | 7.0 | 7.6 | 8.5 | 8.6 | 8.7 | 8.8 | 9.1 |
| Germany | 4.8 | 5.1 | 5.9 | 8.1 | 8.4 | 8.7 | 8.8 | 8.3 | 8.3 | 8.5 |
| Greece | 2.9 | 3.1 | 4.0 | 4.1 | 4.3 | 4.9 | 5.0 | 5.4 | 5.4 | 5.2 |
| Iceland | 3.5 | 4.2 | 5.2 | 6.2 | 6.4 | 7.1 | 8.6 | 8.6 | 8.3 | 8.4 |
| Ireland | 4.0 | 4.4 | 5.6 | 8.0 | 9.2 | 8.2 | 7.3 | 6.9 | 7.0 | 7.3 |
| Italy | 3.6 | 4.3 | 5.2 | 6.1 | 6.9 | 7.0 | 7.6 | 7.6 | 8.1 | 8.3 |
| Japan | 3.0 | 4.5 | 4.6 | 5.6 | 6.6 | 6.5 | 6.6 | 6.6 | 6.5 | 6.6 |
| Luxembourg | — | — | 4.1 | 5.6 | 6.8 | 6.8 | 7.2 | 6.9 | 7.2 | 7.2 |
| Netherlands | 3.9 | 4.4 | 6.0 | 7.6 | 8.0 | 8.0 | 8.2 | 8.1 | 8.2 | 8.3 |
| New Zealand | 4.3 | — | 5.2 | 6.7 | 7.2 | 6.5 | 7.1 | 7.2 | 7.3 | 7.6 |
| Norway | 3.3 | 3.9 | 5.0 | 6.7 | 6.6 | 6.4 | 7.7 | 7.4 | 7.4 | 7.6 |
| Portugal | — | — | 3.1 | 6.4 | 5.9 | 7.0 | 7.1 | 7.2 | 6.7 | 6.8 |
| Spain | 1.5 | 2.5 | 3.7 | 4.8 | 5.6 | 5.7 | 6.0 | 6.3 | 6.6 | 6.7 |
| Sweden | 4.7 | 5.6 | 7.2 | 7.9 | 9.4 | 8.8 | 8.6 | 8.6 | 8.6 | 8.6 |
| Switzerland | 3.3 | 3.8 | 5.2 | 7.0 | 7.3 | 7.6 | 7.8 | 7.5 | 7.8 | 7.9 |
| Turkey | — | — | — | 3.5 | 4.0 | 2.8 | 3.8 | 3.9 | 4.0 | 4.0 |
| United Kingdom | 3.9 | 4.1 | 4.5 | 5.5 | 5.8 | 6.0 | 6.1 | 6.1 | 6.2 | 6.6 |
| United States | 5.3 | 5.9 | 7.4 | 8.4 | 9.2 | 10.5 | 11.1 | 11.5 | 12.2 | 13.2 |
| Per capita health expenditures ² | | | | | | | | | | |
| Australia | \$99 | \$127 | \$207 | \$438 | \$663 | \$998 | \$1,171 | \$1,225 | \$1,310 | \$1,407 |
| Austria | 69 | 94 | 163 | 369 | 683 | 984 | 1,191 | 1,298 | 1,383 | 1,448 |
| Belgium | 55 | 84 | 128 | 303 | 571 | 879 | 1,081 | 1,153 | 1,242 | 1,377 |
| Canada | 109 | 154 | 253 | 435 | 743 | 1,244 | 1,558 | 1,666 | 1,811 | 1,915 |
| Denmark | 70 | 125 | 212 | 340 | 582 | 807 | 972 | 1,013 | 1,051 | 1,151 |
| Finland | 57 | 95 | 164 | 305 | 517 | 855 | 1,044 | 1,147 | 1,291 | 1,426 |
| France | 75 | 124 | 203 | 386 | 698 | 1,083 | 1,295 | 1,415 | 1,528 | 1,650 |
| Germany | 98 | 135 | 216 | 458 | 811 | 1,175 | 1,409 | 1,412 | 1,522 | 1,659 |
| Greece | 16 | 27 | 58 | 102 | 184 | 282 | 334 | 384 | 400 | 404 |
| Iceland | 53 | 88 | 137 | 290 | 581 | 889 | 1,331 | 1,373 | 1,379 | 1,447 |
| Ireland | 38 | 53 | 97 | 231 | 449 | 572 | 620 | 651 | 748 | 845 |
| Italy | 51 | 83 | 153 | 280 | 571 | 814 | 1,058 | 1,150 | 1,296 | 1,408 |
| Japan | 27 | 64 | 127 | 256 | 517 | 792 | 992 | 1,092 | 1,175 | 1,267 |
| Luxembourg | — | — | 154 | 326 | 632 | 930 | 1,219 | 1,267 | 1,392 | 1,494 |
| Netherlands | 74 | 106 | 207 | 410 | 696 | 931 | 1,101 | 1,176 | 1,286 | 1,360 |
| New Zealand | 94 | — | 180 | 364 | 562 | 747 | 900 | 954 | 995 | 1,047 |
| Norway | 49 | 77 | 134 | 306 | 549 | 846 | 1,112 | 1,128 | 1,193 | 1,305 |
| Portugal | — | — | 46 | 157 | 238 | 398 | 493 | 548 | 554 | 624 |
| Spain | 14 | 38 | 82 | 187 | 325 | 452 | 598 | 682 | 774 | 848 |
| Sweden | 94 | 151 | 271 | 470 | 855 | 1,150 | 1,303 | 1,390 | 1,455 | 1,443 |
| Switzerland | 96 | 141 | 268 | 512 | 839 | 1,224 | 1,435 | 1,498 | 1,640 | 1,713 |
| Turkey | — | — | — | 36 | 64 | 66 | 110 | 118 | 133 | 142 |
| United Kingdom | 79 | 102 | 147 | 273 | 458 | 685 | 858 | 912 | 985 | 1,043 |
| United States | 143 | 204 | 346 | 592 | 1,063 | 1,711 | 2,146 | 2,351 | 2,600 | 2,868 |

¹Preliminary figures.

²Per capita health expenditures for each country have been adjusted to U.S. dollars using gross domestic product purchasing power parities for each year.

NOTE: Some numbers in this table have been revised and differ from previous editions of Health, United States.

SOURCES: Schieber, G. J., Poullier, J. P., Greenwald, L. G.: U.S. health expenditure performance: An international comparison and data update. Health Care Financing Review. Vol. 13, Number 4. HCFA Pub. No. 03331. Health Care Financing Administration. Washington. U.S. Government Printing Office, September 1992; Office of National Health Statistics, Office of the Actuary: National health expenditures, 1991. Health Care Financing Review. Vol. 14, Number 2. HCFA Pub. No. 03335. Health Care Financing Administration. Washington. U.S. Government Printing Office, Winter 1992; Unpublished data.

Table 116. National health expenditures, percent distribution, and average annual percent change, according to type of expenditure: United States, selected years 1960–91

[Data are compiled by the Health Care Financing Administration]

| Type of expenditure | 1960 | 1965 | 1970 | 1975 | 1980 | 1985 | 1987 | 1988 | 1989 | 1990 | 1991 |
|---|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| Amount in billions | | | | | | | | | | | |
| Total | \$27.1 | \$41.6 | \$74.4 | \$132.9 | \$250.1 | \$422.6 | \$494.2 | \$546.1 | \$604.3 | \$675.0 | \$751.8 |
| Percent distribution | | | | | | | | | | | |
| All expenditures | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Health services and supplies | 93.7 | 91.7 | 92.8 | 93.8 | 95.5 | 96.4 | 96.5 | 96.4 | 96.6 | 96.6 | 96.9 |
| Personal health care | 88.1 | 85.6 | 87.3 | 87.7 | 87.7 | 87.5 | 88.9 | 88.4 | 87.9 | 87.6 | 87.8 |
| Hospital care | 34.2 | 33.7 | 37.6 | 39.4 | 40.9 | 39.8 | 39.3 | 38.8 | 38.5 | 38.2 | 38.4 |
| Physician services | 19.5 | 19.7 | 18.3 | 17.5 | 16.7 | 17.5 | 18.8 | 19.3 | 19.2 | 19.1 | 18.9 |
| Dentist services | 7.2 | 6.7 | 6.3 | 6.2 | 5.7 | 5.5 | 5.5 | 5.4 | 5.2 | 5.0 | 4.9 |
| Nursing home care | 3.6 | 4.1 | 6.5 | 7.5 | 8.0 | 8.1 | 8.0 | 7.8 | 7.9 | 7.9 | 8.0 |
| Other professional services | 2.2 | 2.1 | 2.0 | 2.6 | 3.5 | 3.9 | 4.3 | 4.4 | 4.5 | 4.5 | 4.8 |
| Home health care | 0.1 | 0.1 | 0.2 | 0.3 | 0.5 | 0.9 | 0.8 | 0.8 | 0.9 | 1.1 | 1.3 |
| Drugs and other medical nondurables | 15.7 | 14.2 | 11.8 | 9.8 | 8.6 | 8.6 | 8.7 | 8.5 | 8.4 | 8.2 | 8.1 |
| Vision products and other medical durables | 3.0 | 3.0 | 2.7 | 2.3 | 1.8 | 1.7 | 1.8 | 1.9 | 1.7 | 1.7 | 1.6 |
| Other personal health care | 2.6 | 2.0 | 1.8 | 2.0 | 1.8 | 1.5 | 1.6 | 1.6 | 1.6 | 1.7 | 1.9 |
| Program administration and net cost of health insurance | 4.3 | 4.6 | 3.7 | 3.8 | 4.9 | 6.0 | 4.7 | 4.9 | 5.6 | 5.8 | 5.8 |
| Government public health activities | 1.4 | 1.5 | 1.9 | 2.3 | 2.9 | 2.9 | 3.0 | 3.0 | 3.1 | 3.3 | 3.3 |
| Research and construction | 6.3 | 8.3 | 7.2 | 6.2 | 4.5 | 3.6 | 3.5 | 3.6 | 3.4 | 3.4 | 3.1 |
| Noncommercial research | 2.6 | 3.7 | 2.6 | 2.5 | 2.2 | 1.8 | 1.8 | 1.9 | 1.8 | 1.8 | 1.7 |
| Construction | 3.7 | 4.6 | 4.5 | 3.7 | 2.3 | 1.8 | 1.7 | 1.7 | 1.6 | 1.6 | 1.4 |

| Type of expenditure | 1960–65 | 1965–70 | 1970–75 | 1975–80 | 1980–85 | 1985–87 | 1987–88 | 1988–89 | 1989–90 | 1990–91 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Average annual percent change | | | | | | | | | | |
| All expenditures | 8.9 | 12.3 | 12.3 | 13.5 | 11.1 | 8.1 | 10.5 | 10.7 | 11.7 | 11.4 |
| Health services and supplies | 8.5 | 12.6 | 12.5 | 13.9 | 11.3 | 8.2 | 10.3 | 10.9 | 11.8 | 11.7 |
| Personal health care | 8.3 | 12.8 | 12.4 | 13.5 | 11.0 | 9.0 | 9.9 | 10.0 | 11.4 | 11.6 |
| Hospital care | 8.6 | 14.7 | 13.4 | 14.3 | 10.4 | 7.4 | 9.2 | 9.6 | 11.1 | 11.8 |
| Physician services | 9.2 | 10.6 | 11.4 | 12.5 | 12.1 | 12.1 | 13.1 | 10.4 | 11.0 | 10.2 |
| Dentist services | 7.3 | 10.8 | 12.1 | 11.7 | 10.1 | 8.0 | 8.5 | 7.5 | 7.7 | 8.8 |
| Nursing home care | 11.6 | 23.4 | 15.4 | 15.0 | 11.3 | 7.8 | 7.8 | 11.1 | 12.3 | 12.4 |
| Other professional services | 7.4 | 11.8 | 18.3 | 19.9 | 13.8 | 12.8 | 12.4 | 13.8 | 13.5 | 16.7 |
| Home health care | 9.6 | 19.7 | 23.2 | 27.2 | 23.3 | 3.6 | 9.9 | 24.4 | 34.4 | 29.0 |
| Drugs and other medical nondurables | 6.8 | 8.4 | 8.1 | 10.7 | 10.8 | 9.3 | 7.2 | 9.1 | 10.3 | 9.0 |
| Vision products and other medical durables | 9.0 | 10.1 | 8.8 | 8.2 | 9.4 | 12.7 | 11.8 | 2.8 | 12.6 | 5.4 |
| Other personal health care | 3.5 | 10.7 | 14.6 | 11.0 | 6.9 | 10.6 | 12.1 | 11.8 | 17.4 | 21.9 |
| Program administration and net cost of health insurance | 10.5 | 7.5 | 12.8 | 19.3 | 15.5 | -4.4 | 16.8 | 25.7 | 15.3 | 12.7 |
| Government public health activities | 10.8 | 17.1 | 17.0 | 18.9 | 11.3 | 8.9 | 13.5 | 14.3 | 16.0 | 11.6 |
| Research and construction | 15.2 | 9.0 | 9.2 | 6.4 | 6.4 | 5.9 | 14.9 | 4.2 | 9.6 | 2.1 |
| Noncommercial research | 17.1 | 5.1 | 11.2 | 10.4 | 7.4 | 7.6 | 14.5 | 6.2 | 8.0 | 6.1 |
| Construction | 13.9 | 11.8 | 8.0 | 3.3 | 5.4 | 4.2 | 15.3 | 1.9 | 11.5 | -2.2 |

NOTE: These data include revisions in health expenditures back to 1985 and differ from previous editions of *Health, United States*.

SOURCE: Office of National Health Statistics, Office of the Actuary: National health expenditures, 1991. *Health Care Financing Review*. Vol. 14, No. 2. HCFA Pub. No. 03335. Health Care Financing Administration. Washington. U.S. Government Printing Office, Winter 1992.

Table 117. Personal health care expenditures average annual percent change and percent distribution of factors affecting growth: United States, 1960–91

[Data are compiled by the Health Care Financing Administration]

| Period | Average annual percent change | Factors affecting growth | | | |
|-------------------|--|--------------------------|--------|------------|------------------------|
| | | All factors | Prices | Population | Intensity ¹ |
| | | Percent distribution | | | |
| 1960–91 | 11.3 | 100 | 57 | 10 | 33 |
| 1960–61 | 6.1 | 100 | 31 | 27 | 42 |
| 1961–62 | 7.6 | 100 | 32 | 20 | 48 |
| 1962–63 | 9.3 | 100 | 22 | 16 | 62 |
| 1963–64 | 9.9 | 100 | 29 | 14 | 57 |
| 1964–65 | 8.6 | 100 | 37 | 15 | 48 |
| 1965–66 | 10.5 | 100 | 45 | 11 | 44 |
| 1966–67 | 13.6 | 100 | 43 | 8 | 49 |
| 1967–68 | 13.1 | 100 | 45 | 8 | 47 |
| 1968–69 | 13.0 | 100 | 51 | 8 | 41 |
| 1969–70 | 13.7 | 100 | 50 | 8 | 42 |
| 1970–71 | 9.9 | 100 | 65 | 11 | 24 |
| 1971–72 | 11.3 | 100 | 39 | 9 | 52 |
| 1972–73 | 11.7 | 100 | 38 | 7 | 55 |
| 1973–74 | 14.6 | 100 | 63 | 6 | 31 |
| 1974–75 | 14.7 | 100 | 75 | 6 | 19 |
| 1975–76 | 14.0 | 100 | 62 | 6 | 32 |
| 1976–77 | 12.3 | 100 | 63 | 7 | 30 |
| 1977–78 | 12.2 | 100 | 66 | 8 | 26 |
| 1978–79 | 13.0 | 100 | 70 | 8 | 22 |
| 1979–80 | 15.9 | 100 | 73 | 6 | 21 |
| 1980–81 | 16.2 | 100 | 70 | 6 | 24 |
| 1981–82 | 12.4 | 100 | 77 | 8 | 15 |
| 1982–83 | 10.0 | 100 | 72 | 10 | 18 |
| 1983–84 | 8.4 | 100 | 75 | 12 | 13 |
| 1984–85 | 8.3 | 100 | 66 | 12 | 22 |
| 1985–86 | 8.4 | 100 | 60 | 12 | 28 |
| 1986–87 | 9.6 | 100 | 61 | 11 | 28 |
| 1987–88 | 9.9 | 100 | 68 | 10 | 22 |
| 1988–89 | 10.0 | 100 | 70 | 10 | 20 |
| 1989–90 | 11.4 | 100 | 58 | 9 | 33 |
| 1990–91 | 11.6 | 100 | 54 | 9 | 37 |

¹Represents changes in use or kinds of services and supplies.

NOTE: These data include revisions back to 1960 and differ from previous editions of Health, United States.

SOURCE: Office of National Health Statistics, Office of the Actuary: National health expenditures, 1991. Health Care Financing Review. Vol. 14, Number 2. HCFA Pub. No. 03335. Health Care Financing Administration. Washington. U.S. Government Printing Office, Winter 1992.

Table 118. Consumer Price Index and average annual percent change for all items and selected items: United States, selected years 1950–92

[Data are based on reporting by samples of providers and other retail outlets]

| Year | All items | Medical care | Food | Apparel and upkeep | Housing | Energy | Personal care |
|-------------------------------|-----------|--------------|-------|--------------------|---------|--------|---------------|
| Consumer Price Index | | | | | | | |
| 1950..... | 24.1 | 15.1 | 25.4 | 40.3 | --- | --- | 26.2 |
| 1955..... | 26.8 | 18.2 | 27.8 | 42.9 | --- | --- | 29.9 |
| 1960..... | 29.6 | 22.3 | 30.0 | 45.7 | --- | 22.4 | 34.6 |
| 1965..... | 31.5 | 25.2 | 32.2 | 47.8 | --- | 22.9 | 36.6 |
| 1970..... | 38.8 | 34.0 | 39.2 | 59.2 | 36.4 | 25.5 | 43.5 |
| 1975..... | 53.8 | 47.5 | 59.8 | 72.5 | 50.7 | 42.1 | 57.9 |
| 1976..... | 56.9 | 52.0 | 61.6 | 75.2 | 53.8 | 45.1 | 61.7 |
| 1977..... | 60.6 | 57.0 | 65.5 | 78.6 | 57.4 | 49.4 | 65.7 |
| 1978..... | 65.2 | 61.8 | 72.0 | 81.4 | 62.4 | 52.5 | 69.9 |
| 1979..... | 72.6 | 67.5 | 79.9 | 84.9 | 70.1 | 65.7 | 75.2 |
| 1980..... | 82.4 | 74.9 | 86.8 | 90.9 | 81.1 | 86.0 | 81.9 |
| 1981..... | 90.9 | 82.9 | 93.6 | 95.3 | 90.4 | 97.7 | 89.1 |
| 1982..... | 96.5 | 92.5 | 97.4 | 97.8 | 96.9 | 99.2 | 95.4 |
| 1983..... | 99.6 | 100.6 | 99.4 | 100.2 | 99.5 | 99.9 | 100.3 |
| 1984..... | 103.9 | 106.8 | 103.2 | 102.1 | 103.6 | 100.9 | 104.3 |
| 1985..... | 107.6 | 113.5 | 105.6 | 105.0 | 107.7 | 101.6 | 108.3 |
| 1986..... | 109.6 | 122.0 | 109.0 | 105.9 | 110.9 | 88.2 | 111.9 |
| 1987..... | 113.6 | 130.1 | 113.5 | 110.6 | 114.2 | 88.6 | 115.1 |
| 1988..... | 118.3 | 138.6 | 118.2 | 115.4 | 118.5 | 89.3 | 119.4 |
| 1989..... | 124.0 | 149.3 | 125.1 | 118.6 | 123.0 | 94.3 | 125.0 |
| 1990..... | 130.7 | 162.8 | 132.4 | 124.1 | 128.5 | 102.1 | 130.4 |
| 1991..... | 136.2 | 177.0 | 136.3 | 128.7 | 133.6 | 102.5 | 134.9 |
| 1992..... | 140.3 | 190.1 | 137.9 | 131.9 | 137.5 | 103.0 | 138.3 |
| Average annual percent change | | | | | | | |
| 1950–92..... | 4.3 | 6.2 | 4.1 | 2.9 | 16.2 | 24.9 | 4.0 |
| 1950–55..... | 2.1 | 3.8 | 1.8 | 1.3 | --- | --- | 2.7 |
| 1955–60..... | 2.0 | 4.1 | 1.5 | 1.3 | --- | --- | 3.0 |
| 1960–65..... | 1.3 | 2.5 | 1.4 | 0.9 | --- | 0.4 | 1.1 |
| 1965–70..... | 4.3 | 6.2 | 4.0 | 4.4 | --- | 2.2 | 3.5 |
| 1970–75..... | 6.8 | 6.9 | 8.8 | 4.1 | 6.9 | 10.5 | 5.9 |
| 1975–80..... | 8.9 | 9.5 | 7.7 | 4.6 | 9.9 | 15.4 | 7.2 |
| 1975–76..... | 5.8 | 9.5 | 3.0 | 3.7 | 6.1 | 7.1 | 6.6 |
| 1976–77..... | 6.5 | 9.6 | 6.3 | 4.5 | 6.7 | 9.5 | 6.5 |
| 1977–78..... | 7.6 | 8.4 | 9.9 | 3.6 | 8.7 | 6.3 | 6.4 |
| 1978–79..... | 11.3 | 9.2 | 11.0 | 4.3 | 12.3 | 25.1 | 7.6 |
| 1979–80..... | 13.5 | 11.0 | 8.6 | 7.1 | 15.7 | 30.9 | 8.9 |
| 1980–85..... | 5.5 | 8.7 | 4.0 | 2.9 | 5.8 | 3.4 | 5.7 |
| 1980–81..... | 10.3 | 10.7 | 7.8 | 4.8 | 11.5 | 13.6 | 8.8 |
| 1981–82..... | 6.2 | 11.6 | 4.1 | 2.6 | 7.2 | 1.5 | 7.1 |
| 1982–83..... | 3.2 | 8.8 | 2.1 | 2.5 | 2.7 | 0.7 | 5.1 |
| 1983–84..... | 4.3 | 6.2 | 3.8 | 1.9 | 4.1 | 1.0 | 4.0 |
| 1984–85..... | 3.6 | 6.3 | 2.3 | 2.8 | 4.0 | 0.7 | 3.8 |
| 1985–90..... | 4.0 | 7.5 | 4.6 | 3.4 | 3.6 | 0.1 | 3.8 |
| 1985–86..... | 1.9 | 7.5 | 3.2 | 0.9 | 3.0 | -13.2 | 3.3 |
| 1986–87..... | 3.6 | 6.6 | 4.1 | 4.4 | 3.0 | 0.5 | 2.9 |
| 1987–88..... | 4.1 | 6.5 | 4.1 | 4.3 | 3.8 | 0.8 | 3.7 |
| 1988–89..... | 4.8 | 7.7 | 5.8 | 2.8 | 3.8 | 5.6 | 4.7 |
| 1989–90..... | 5.4 | 9.0 | 5.8 | 4.6 | 4.5 | 8.3 | 4.3 |
| 1990–91..... | 4.2 | 8.7 | 2.9 | 3.7 | 4.0 | 0.4 | 3.5 |
| 1991–92..... | 3.0 | 7.4 | 1.2 | 2.5 | 2.9 | 0.5 | 2.5 |

¹Data are for 1970–92.

²Data are for 1960–92.

NOTE: 1982–84 = 100.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor: Consumer Price Index. Various releases.

Table 119. Consumer Price Index and average annual percent change for all items and medical care components: United States, selected years 1950–92

[Data are based on reporting by samples of providers and other retail outlets]

| Item and medical care component | 1950 | 1960 | 1965 | 1970 | 1975 | 1980 | 1985 | 1989 | 1990 | 1991 | 1992 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| Consumer Price Index | | | | | | | | | | | |
| CPI, all items | 24.1 | 29.6 | 31.5 | 38.8 | 53.8 | 82.4 | 107.6 | 124.0 | 130.7 | 136.2 | 140.3 |
| Less medical care. | --- | 30.2 | 32.0 | 39.2 | 54.3 | 82.8 | 107.2 | 122.4 | 128.8 | 133.8 | 137.5 |
| CPI, all services | 16.9 | 24.1 | 26.6 | 35.0 | 48.0 | 77.9 | 109.9 | 131.9 | 139.2 | 146.3 | 152.0 |
| All medical care | 15.1 | 22.3 | 25.2 | 34.0 | 47.5 | 74.9 | 113.5 | 149.3 | 162.8 | 177.0 | 190.1 |
| Medical care services | 12.8 | 19.5 | 22.7 | 32.3 | 46.6 | 74.8 | 113.2 | 148.9 | 162.7 | 177.1 | 190.5 |
| Professional medical services | --- | --- | --- | 37.0 | 50.8 | 77.9 | 113.5 | 146.4 | 156.1 | 165.7 | 175.8 |
| Physicians' services | 15.7 | 21.9 | 25.1 | 34.5 | 48.1 | 76.5 | 113.3 | 150.1 | 160.8 | 170.5 | 181.2 |
| Dental services | 21.0 | 27.0 | 30.3 | 39.2 | 53.2 | 78.9 | 114.2 | 146.1 | 155.8 | 167.4 | 178.7 |
| Eye care ¹ | --- | --- | --- | --- | --- | --- | 112.4 | 117.3 | 121.9 | 127.0 | 127.0 |
| Services by other medical professionals ¹ | --- | --- | --- | --- | --- | --- | --- | 114.2 | 120.2 | 126.6 | 131.7 |
| Hospital and related services | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Hospital rooms | 4.9 | 9.3 | 12.3 | 23.6 | 38.3 | 68.0 | 115.4 | 158.1 | 175.4 | 191.9 | 208.7 |
| Other inpatient services ¹ | --- | --- | --- | --- | --- | --- | --- | 128.9 | 142.7 | 158.0 | 172.3 |
| Outpatient services ¹ | --- | --- | --- | --- | --- | --- | --- | 124.7 | 138.7 | 153.4 | 168.7 |
| Medical care commodities | 39.7 | 46.9 | 45.0 | 46.5 | 53.3 | 75.4 | 115.2 | 150.8 | 163.4 | 176.8 | 188.1 |
| Prescription drugs | 43.4 | 54.0 | 47.8 | 47.4 | 51.2 | 72.5 | 120.1 | 165.2 | 181.7 | 199.7 | 214.7 |
| Nonprescription drugs and medical supplies ¹ | --- | --- | --- | --- | --- | --- | --- | 114.6 | 120.6 | 126.3 | 131.2 |
| Internal and respiratory over-the-counter drugs | --- | --- | 39.0 | 42.3 | 51.8 | 74.9 | 112.2 | 138.8 | 145.9 | 152.4 | 158.2 |
| Nonprescription medical equipment and supplies | --- | --- | --- | --- | --- | 79.2 | 109.6 | 131.1 | 138.0 | 145.0 | 150.9 |
| Item and medical care component | 1950–60 | 1960–65 | 1965–70 | 1970–75 | 1975–80 | 1980–85 | 1985–89 | 1989–90 | 1990–91 | 1991–92 | |
| Average annual percent change | | | | | | | | | | | |
| CPI, all items | 2.1 | 1.3 | 4.3 | 6.8 | 8.9 | 5.5 | 3.6 | 5.4 | 4.2 | 3.0 | |
| Less medical care | --- | 1.2 | 4.1 | 6.7 | 8.8 | 5.3 | 3.4 | 5.2 | 3.9 | 2.8 | |
| CPI, all services | 3.6 | 2.0 | 5.6 | 6.5 | 10.2 | 7.1 | 4.7 | 5.5 | 5.1 | 3.9 | |
| All medical care | 4.0 | 2.5 | 6.2 | 6.9 | 9.5 | 8.7 | 7.1 | 9.0 | 8.7 | 7.4 | |
| Medical care services | 4.3 | 3.1 | 7.3 | 7.6 | 9.9 | 8.6 | 7.1 | 9.3 | 8.9 | 7.6 | |
| Professional medical services | --- | --- | --- | 6.5 | 8.9 | 7.8 | 6.6 | 6.6 | 6.1 | 6.1 | |
| Physicians' services | 3.4 | 2.8 | 6.6 | 6.9 | 9.7 | 8.2 | 7.3 | 7.1 | 6.0 | 6.3 | |
| Dental services | 2.5 | 2.3 | 5.3 | 6.3 | 8.2 | 7.7 | 6.4 | 6.6 | 7.4 | 6.8 | |
| Eye care ¹ | --- | --- | --- | --- | --- | --- | --- | 4.4 | 3.9 | 4.2 | |
| Services by other medical professionals ¹ | --- | --- | --- | --- | --- | --- | --- | 5.3 | 5.3 | 4.0 | |
| Hospital and related services | --- | --- | --- | --- | --- | 10.9 | 8.4 | 10.9 | 10.2 | 9.1 | |
| Hospital rooms | 6.6 | 5.8 | 13.9 | 10.2 | 12.2 | 11.2 | 8.2 | 10.9 | 9.4 | 8.8 | |
| Other inpatient services ¹ | --- | --- | --- | --- | --- | --- | --- | 10.7 | 10.7 | 9.1 | |
| Outpatient services ¹ | --- | --- | --- | --- | --- | --- | --- | 11.2 | 10.6 | 10.0 | |
| Medical care commodities | 1.7 | -0.8 | 0.7 | 2.8 | 7.2 | 8.8 | 7.0 | 8.4 | 8.2 | 6.4 | |
| Prescription drugs | 2.2 | -2.4 | -0.2 | 1.6 | 7.2 | 10.6 | 8.3 | 10.0 | 9.9 | 7.5 | |
| Nonprescription drugs and medical supplies ¹ | --- | --- | --- | --- | --- | --- | --- | 5.2 | 4.7 | 3.9 | |
| Internal and respiratory over-the-counter drugs | --- | --- | 1.6 | 4.1 | 7.7 | 8.4 | 5.5 | 5.1 | 4.5 | 3.8 | |
| Nonprescription medical equipment and supplies | --- | --- | --- | --- | --- | 6.7 | 4.6 | 5.3 | 5.1 | 4.1 | |

¹Dec. 1986 = 100.

NOTE: 1982–84 = 100, except where noted.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor: Consumer Price Index. Various releases.

Table 120. Hospital expenses and personnel and average annual percent change in nonfederal short-stay hospitals: United States, 1971–91

[Data are based on reporting by a census of hospitals]

| Year and period | Expenses for inpatient care | | | Employee costs as percent of total ¹ | Personnel ² | |
|-------------------------------|-----------------------------|-------------------|--------------------|---|------------------------|-------------------------|
| | Total in billions | Per inpatient day | Per inpatient stay | | Number in thousands | Number per 100 patients |
| 1971..... | \$22.4 | \$83 | \$667 | 63.9 | 1,999 | 272 |
| 1972..... | 25.5 | 95 | 747 | 62.6 | 2,056 | 278 |
| 1973..... | 28.5 | 102 | 794 | 61.8 | 2,149 | 280 |
| 1974..... | 32.8 | 113 | 883 | 60.7 | 2,289 | 289 |
| 1975..... | 39.1 | 133 | 1,025 | 59.4 | 2,399 | 298 |
| 1976..... | 45.4 | 152 | 1,172 | 57.9 | 2,483 | 304 |
| 1977..... | 51.8 | 173 | 1,317 | 57.5 | 2,581 | 315 |
| 1978..... | 58.3 | 194 | 1,470 | 57.2 | 2,662 | 323 |
| 1979..... | 66.2 | 216 | 1,631 | 57.0 | 2,762 | 328 |
| 1980..... | 77.0 | 244 | 1,844 | 56.4 | 2,879 | 334 |
| 1981..... | 90.7 | 284 | 2,168 | 56.7 | 3,039 | 347 |
| 1982..... | 105.1 | 327 | 2,493 | 56.7 | 3,110 | 353 |
| 1983..... | 116.6 | 368 | 2,776 | 56.5 | 3,102 | 357 |
| 1984..... | 123.6 | 410 | 2,984 | 56.1 | 3,023 | 367 |
| 1985..... | 130.7 | 460 | 3,239 | 55.2 | 3,003 | 385 |
| 1986..... | 140.9 | 499 | 3,530 | 53.9 | 3,032 | 392 |
| 1987..... | 152.9 | 537 | 3,849 | 53.1 | 3,120 | 400 |
| 1988..... | 168.9 | 581 | 4,194 | 52.9 | 3,209 | 404 |
| 1989..... | 185.2 | 631 | 4,572 | 53.0 | 3,307 | 411 |
| 1990..... | 203.9 | 682 | 4,930 | 53.6 | 3,423 | 417 |
| 1991..... | 225.2 | 745 | 5,346 | 53.8 | 3,539 | 427 |
| Average annual percent change | | | | | | |
| 1971–91..... | 12.2 | 11.6 | 11.0 | ... | 2.9 | 2.3 |
| 1971–72..... | 14.1 | 14.5 | 12.0 | ... | 2.9 | 2.2 |
| 1972–73..... | 11.5 | 7.4 | 6.3 | ... | 4.5 | 0.7 |
| 1973–74..... | 14.9 | 10.8 | 11.2 | ... | 6.5 | 3.2 |
| 1974–75..... | 19.4 | 17.7 | 16.1 | ... | 4.8 | 3.1 |
| 1975–76..... | 16.1 | 14.3 | 14.3 | ... | 3.5 | 2.0 |
| 1976–77..... | 14.2 | 13.8 | 12.4 | ... | 3.9 | 3.6 |
| 1977–78..... | 12.6 | 12.1 | 11.6 | ... | 3.1 | 2.5 |
| 1978–79..... | 13.4 | 11.3 | 11.0 | ... | 3.8 | 1.5 |
| 1979–80..... | 16.3 | 13.0 | 13.1 | ... | 4.2 | 1.8 |
| 1980–81..... | 17.9 | 16.4 | 17.6 | ... | 5.6 | 3.9 |
| 1981–82..... | 15.8 | 15.1 | 15.0 | ... | 2.3 | 1.7 |
| 1982–83..... | 11.0 | 12.5 | 11.4 | ... | -0.3 | 1.1 |
| 1983–84..... | 5.9 | 11.4 | 7.5 | ... | -2.5 | 2.8 |
| 1984–85..... | 5.8 | 12.2 | 8.5 | ... | -0.7 | 4.9 |
| 1985–86..... | 7.8 | 8.5 | 9.0 | ... | 1.0 | 1.8 |
| 1986–87..... | 8.5 | 7.6 | 9.0 | ... | 2.9 | 2.0 |
| 1987–88..... | 10.5 | 8.2 | 9.0 | ... | 2.9 | 1.0 |
| 1988–89..... | 9.7 | 8.6 | 9.0 | ... | 3.1 | 1.7 |
| 1989–90..... | 10.1 | 8.1 | 7.8 | ... | 3.5 | 1.5 |
| 1990–91..... | 10.4 | 9.2 | 8.4 | ... | 3.4 | 2.4 |

¹Includes employee payroll and benefit costs. Does not include contracted labor services.

²Full-time equivalent personnel.

NOTE: Data refer to nonfederal short-term general and other specialty hospitals.

SOURCE: American Hospital Association: Hospital Statistics, 1992 Edition. Chicago, 1992. (Copyright 1992: Used with the permission of the American Hospital Association.)

Table 121. Hospital expenses in short-stay hospitals, according to type of ownership and size of hospital: United States, selected years 1970–91

[Data are based on reporting by a census of hospitals]

| Type of ownership and size of hospital | 1970 | 1975 | 1980 | 1985 | 1987 | 1988 | 1989 | 1990 | 1991 | |
|---|--------|--------------------|---------|---------|---------|---------|---------|---------|---------|--|
| Total expenses | | Amount in billions | | | | | | | | |
| All ownership..... | \$19.7 | \$42.7 | \$83.8 | \$141.3 | \$164.9 | \$182.0 | \$198.6 | \$217.4 | \$240.2 | |
| Federal ¹ | 1.1 | 3.6 | 6.8 | 10.6 | 12.0 | 13.1 | 13.4 | 13.5 | 15.0 | |
| Department of Defense..... | 0.2 | 1.1 | 1.9 | 3.5 | 4.0 | 4.5 | 4.3 | 3.9 | 4.6 | |
| Department of Veterans Affairs..... | 0.9 | 2.3 | 4.5 | 6.6 | 7.5 | 8.0 | 8.5 | 8.9 | 9.6 | |
| Indian Health Service..... | 0.0 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.5 | |
| Nonfederal short-stay ² | 18.6 | 39.1 | 77.0 | 130.7 | 152.9 | 168.9 | 185.2 | 203.9 | 225.2 | |
| Nonprofit..... | 13.6 | 28.0 | 55.8 | 96.2 | 112.4 | 124.8 | 136.9 | 150.7 | 166.8 | |
| Proprietary..... | 0.7 | 2.6 | 5.8 | 11.5 | 14.1 | 15.5 | 17.2 | 18.8 | 20.5 | |
| State-local government..... | 4.1 | 8.6 | 15.3 | 23.0 | 26.4 | 28.6 | 31.0 | 34.4 | 37.9 | |
| Size of hospital: | | | | | | | | | | |
| 6–99 beds..... | 2.2 | 4.4 | 8.0 | 12.5 | 14.6 | 16.1 | 17.5 | 18.6 | 20.8 | |
| 100–199 beds..... | 3.4 | 7.1 | 13.4 | 22.5 | 26.5 | 29.4 | 32.7 | 35.4 | 39.2 | |
| 200–299 beds..... | 3.4 | 7.0 | 13.8 | 23.9 | 29.4 | 33.0 | 36.5 | 40.7 | 43.9 | |
| 300–499 beds..... | 5.6 | 11.3 | 23.7 | 40.3 | 45.5 | 50.0 | 55.0 | 60.4 | 67.4 | |
| 500 beds or more..... | 5.1 | 12.9 | 24.9 | 42.2 | 48.9 | 53.5 | 56.9 | 62.4 | 68.9 | |
| Expenses per inpatient day | | Amount | | | | | | | | |
| Nonfederal short-stay ² | \$68 | \$133 | \$244 | \$460 | \$537 | \$581 | \$631 | \$682 | \$745 | |
| Nonprofit..... | 72 | 133 | 246 | 463 | 544 | 591 | 642 | 692 | 757 | |
| Proprietary..... | 50 | 133 | 257 | 500 | 585 | 649 | 708 | 752 | 820 | |
| State-local government..... | 67 | 132 | 236 | 429 | 490 | 514 | 554 | 610 | 668 | |
| Size of hospital: | | | | | | | | | | |
| 6–99 beds..... | 45 | 102 | 198 | 381 | 426 | 456 | 483 | 506 | 551 | |
| 100–199 beds..... | 58 | 119 | 218 | 409 | 481 | 520 | 561 | 595 | 654 | |
| 200–299 beds..... | 68 | 128 | 235 | 447 | 523 | 572 | 614 | 664 | 719 | |
| 300–499 beds..... | 74 | 138 | 257 | 482 | 569 | 615 | 679 | 733 | 803 | |
| 500 beds or more..... | 72 | 155 | 275 | 503 | 600 | 654 | 717 | 783 | 872 | |
| Expenses per inpatient stay | | Amount | | | | | | | | |
| Nonfederal short-stay ² | \$579 | \$1,025 | \$1,844 | \$3,239 | \$3,849 | \$4,194 | \$4,572 | \$4,930 | \$5,346 | |
| Nonprofit..... | 597 | 1,045 | 1,900 | 3,308 | 3,912 | 4,267 | 4,638 | 4,995 | 5,388 | |
| Proprietary..... | 348 | 886 | 1,676 | 3,033 | 3,617 | 4,023 | 4,406 | 4,727 | 5,134 | |
| State-local government..... | 585 | 1,016 | 1,724 | 3,073 | 3,720 | 3,990 | 4,389 | 4,769 | 5,281 | |
| Size of hospital: | | | | | | | | | | |
| 6–99 beds..... | 339 | 665 | 1,234 | 2,276 | 2,700 | 2,971 | 3,173 | 3,348 | 3,742 | |
| 100–199 beds..... | 470 | 865 | 1,554 | 2,739 | 3,301 | 3,603 | 3,913 | 4,204 | 4,558 | |
| 200–299 beds..... | 585 | 990 | 1,773 | 3,070 | 3,684 | 4,023 | 4,376 | 4,683 | 5,054 | |
| 300–499 beds..... | 665 | 1,147 | 2,047 | 3,535 | 4,161 | 4,569 | 5,007 | 5,352 | 5,748 | |
| 500 beds or more..... | 870 | 1,637 | 2,627 | 4,387 | 5,216 | 5,756 | 6,310 | 6,873 | 7,567 | |

¹Includes other Federal hospitals not listed separately.

²Includes nonfederal short-stay general and other specialty hospitals.

SOURCES: American Hospital Association: Hospitals. JAHA 45(15):463–467, Aug. 1971; Hospital Statistics, 1976, 1981, 1985–92 Editions. Chicago, 1976, 1981, 1985–92. (Copyrights 1971, 1976, 1981, 1985–92: Used with the permission of the American Hospital Association.); Unpublished data.

Table 122. National health expenditures and average annual percent change, according to source of funds: United States, selected years 1929–91

[Data are compiled by the Health Care Financing Administration]

| Year | All health expenditures in billions | Private funds | | | Public funds | | |
|-------------------------------|-------------------------------------|--------------------|-------------------|------------------|--------------------|-------------------|------------------|
| | | Amount in billions | Amount per capita | Percent of total | Amount in billions | Amount per capita | Percent of total |
| 1929 | \$3.6 | \$3.2 | \$25 | 86.4 | \$0.5 | \$4 | 13.6 |
| 1935 | 2.9 | 2.4 | 18 | 80.8 | 0.6 | 4 | 19.2 |
| 1940 | 4.0 | 3.2 | 23 | 79.7 | 0.8 | 6 | 20.3 |
| 1950 | 12.7 | 9.2 | 58 | 72.8 | 3.4 | 22 | 27.2 |
| 1955 | 17.7 | 13.2 | 75 | 74.3 | 4.6 | 27 | 25.7 |
| 1960 | 27.1 | 20.5 | 108 | 75.5 | 6.7 | 35 | 24.5 |
| 1965 | 41.6 | 31.3 | 154 | 75.3 | 10.3 | 50 | 24.7 |
| 1966 | 45.9 | 32.3 | 157 | 70.4 | 13.6 | 66 | 29.6 |
| 1967 | 51.7 | 32.5 | 156 | 62.9 | 19.2 | 92 | 37.1 |
| 1968 | 58.5 | 36.7 | 174 | 62.8 | 21.8 | 103 | 37.2 |
| 1969 | 65.7 | 41.1 | 193 | 62.5 | 24.6 | 116 | 37.5 |
| 1970 | 74.4 | 46.7 | 217 | 62.8 | 27.7 | 129 | 37.2 |
| 1971 | 82.3 | 51.1 | 235 | 62.1 | 31.2 | 144 | 37.9 |
| 1972 | 92.3 | 57.2 | 261 | 62.0 | 35.1 | 160 | 38.0 |
| 1973 | 102.5 | 63.2 | 286 | 61.6 | 39.3 | 178 | 38.4 |
| 1974 | 116.1 | 69.4 | 312 | 59.8 | 46.6 | 209 | 40.2 |
| 1975 | 132.9 | 77.8 | 346 | 58.5 | 55.1 | 246 | 41.5 |
| 1976 | 152.2 | 89.8 | 396 | 59.0 | 62.4 | 276 | 41.0 |
| 1977 | 172.0 | 102.0 | 446 | 59.3 | 70.1 | 307 | 40.7 |
| 1978 | 193.7 | 113.9 | 494 | 58.8 | 79.8 | 346 | 41.2 |
| 1979 | 217.2 | 126.9 | 545 | 58.4 | 90.4 | 388 | 41.6 |
| 1980 | 250.1 | 145.0 | 617 | 58.0 | 105.2 | 447 | 42.0 |
| 1981 | 290.2 | 168.5 | 709 | 58.0 | 121.8 | 513 | 42.0 |
| 1982 | 326.1 | 191.3 | 797 | 58.7 | 134.8 | 562 | 41.3 |
| 1983 | 358.6 | 211.0 | 871 | 58.8 | 147.6 | 609 | 41.2 |
| 1984 | 389.6 | 230.0 | 940 | 59.0 | 159.6 | 652 | 41.0 |
| 1985 | 422.6 | 248.0 | 1,004 | 58.7 | 174.6 | 707 | 41.3 |
| 1986 | 454.9 | 265.2 | 1,063 | 58.3 | 189.6 | 760 | 41.7 |
| 1987 | 494.2 | 286.2 | 1,136 | 57.9 | 208.0 | 826 | 42.1 |
| 1988 | 546.1 | 319.0 | 1,254 | 58.4 | 227.1 | 893 | 41.6 |
| 1989 | 604.3 | 351.0 | 1,366 | 58.1 | 253.3 | 986 | 41.9 |
| 1990 | 675.0 | 390.0 | 1,502 | 57.8 | 285.1 | 1,098 | 42.2 |
| 1991 | 751.8 | 421.8 | 1,609 | 56.1 | 330.0 | 1,259 | 43.9 |
| Average annual percent change | | | | | | | |
| 1929–65 | 7.0 | 6.6 | 5.2 | ... | 8.8 | 7.3 | ... |
| 1965–91 | 11.8 | 10.5 | 9.5 | ... | 14.3 | 13.2 | ... |
| 1929–35 | -3.6 | -4.6 | -5.1 | ... | 2.2 | 1.4 | ... |
| 1935–40 | 6.3 | 6.0 | 4.7 | ... | 7.6 | 6.8 | ... |
| 1940–50 | 12.2 | 11.2 | 9.7 | ... | 15.5 | 13.8 | ... |
| 1950–55 | 7.0 | 7.4 | 5.3 | ... | 5.8 | 4.2 | ... |
| 1955–60 | 8.9 | 9.2 | 7.5 | ... | 7.9 | 5.3 | ... |
| 1960–65 | 8.9 | 8.9 | 7.3 | ... | 9.1 | 7.6 | ... |
| 1965–70 | 12.3 | 8.3 | 7.2 | ... | 21.9 | 20.6 | ... |
| 1970–75 | 12.3 | 10.7 | 9.8 | ... | 14.8 | 13.8 | ... |
| 1975–80 | 13.5 | 13.3 | 12.2 | ... | 13.8 | 12.7 | ... |
| 1980–85 | 11.1 | 11.3 | 10.2 | ... | 10.7 | 9.6 | ... |
| 1980–81 | 16.0 | 16.2 | 15.1 | ... | 15.8 | 14.6 | ... |
| 1981–82 | 12.4 | 13.6 | 12.4 | ... | 10.7 | 9.6 | ... |
| 1982–83 | 10.0 | 10.3 | 9.2 | ... | 9.5 | 8.5 | ... |
| 1983–84 | 8.7 | 9.0 | 8.0 | ... | 8.1 | 7.1 | ... |
| 1984–85 | 8.5 | 7.8 | 6.8 | ... | 9.4 | 8.3 | ... |
| 1985–90 | 9.8 | 9.5 | 8.4 | ... | 10.3 | 9.2 | ... |
| 1985–86 | 7.6 | 7.0 | 5.9 | ... | 8.6 | 7.6 | ... |
| 1986–87 | 8.6 | 7.9 | 6.9 | ... | 9.7 | 8.6 | ... |
| 1987–88 | 10.5 | 11.5 | 10.4 | ... | 9.2 | 8.1 | ... |
| 1988–89 | 10.7 | 10.0 | 8.9 | ... | 11.5 | 10.4 | ... |
| 1989–90 | 11.7 | 11.1 | 10.0 | ... | 12.5 | 11.4 | ... |
| 1990–91 | 11.4 | 8.2 | 7.1 | ... | 15.7 | 14.6 | ... |

NOTES: These data include revisions in health expenditures back to 1985 and in population back to 1960 and differ from previous editions of Health, United States. They reflect Social Security Administration population revisions as of July 1992.

SOURCE: Office of National Health Statistics, Office of the Actuary: National health expenditures, 1991. Health Care Financing Review. Vol. 14, No. 2. HCFA Pub. No. 03335. Health Care Financing Administration. Washington. U.S. Government Printing Office, Winter 1992.

**Table 123. Personal health care expenditures and percent distribution, according to source of funds:
United States, selected years 1929-91**

[Data are compiled by the Health Care Financing Administration]

| Year | Total in billions ¹ | Per capita | All sources | Out-of-pocket payments | Private health insurance | Other private funds | Government | | |
|----------------------|--------------------------------------|---------------|----------------|---------------------------|--------------------------------|---------------------------|------------|---------|-----------------------|
| | | | | | | | Total | Federal | State and local |
| Percent distribution | | | | | | | | | |
| 1929 | \$3.2 | \$26 | 100.0 | 288.4 | (²) | 2.6 | 9.0 | 2.7 | 6.3 |
| 1935 | 2.7 | 21 | 100.0 | 282.4 | (²) | 2.8 | 14.7 | 3.4 | 11.3 |
| 1940 | 3.5 | 26 | 100.0 | 281.3 | (²) | 2.6 | 16.1 | 4.1 | 12.0 |
| 1950 | 10.9 | 70 | 100.0 | 65.5 | 9.1 | 2.9 | 22.4 | 10.4 | 12.0 |
| 1955 | 15.7 | 93 | 100.0 | 58.1 | 16.1 | 2.8 | 23.0 | 10.5 | 12.5 |
| 1960 | 23.9 | 126 | 100.0 | 55.9 | 21.0 | 1.7 | 21.4 | 8.9 | 12.5 |
| 1965 | 35.6 | 175 | 100.0 | 53.4 | 24.3 | 1.9 | 20.4 | 8.3 | 12.0 |
| 1970 | 64.9 | 302 | 100.0 | 39.5 | 23.4 | 2.6 | 34.6 | 22.6 | 12.0 |
| 1971 | 71.3 | 329 | 100.0 | 38.0 | 23.8 | 2.6 | 35.6 | 23.7 | 11.9 |
| 1972 | 79.4 | 362 | 100.0 | 37.5 | 23.6 | 2.7 | 36.1 | 24.0 | 12.2 |
| 1973 | 88.6 | 401 | 100.0 | 37.1 | 23.9 | 2.6 | 36.4 | 23.8 | 12.6 |
| 1974 | 101.6 | 456 | 100.0 | 35.0 | 24.6 | 2.5 | 37.8 | 25.6 | 12.2 |
| 1975 | 116.6 | 519 | 100.0 | 33.1 | 25.6 | 2.5 | 38.9 | 26.6 | 12.3 |
| 1976 | 132.8 | 587 | 100.0 | 32.0 | 26.4 | 3.0 | 38.6 | 27.6 | 11.0 |
| 1977 | 149.2 | 653 | 100.0 | 31.0 | 27.3 | 2.9 | 38.8 | 27.6 | 11.2 |
| 1978 | 167.5 | 726 | 100.0 | 30.0 | 27.9 | 3.0 | 39.1 | 28.0 | 11.1 |
| 1979 | 189.3 | 813 | 100.0 | 28.6 | 28.9 | 3.0 | 39.5 | 28.4 | 11.1 |
| 1980 | 219.4 | 933 | 100.0 | 27.1 | 29.7 | 3.5 | 39.7 | 28.9 | 10.8 |
| 1981 | 254.8 | 1,073 | 100.0 | 26.4 | 30.3 | 3.5 | 39.9 | 29.4 | 10.5 |
| 1982 | 286.4 | 1,194 | 100.0 | 25.9 | 30.9 | 3.6 | 39.6 | 29.3 | 10.3 |
| 1983 | 314.9 | 1,300 | 100.0 | 25.8 | 30.9 | 3.5 | 39.8 | 29.7 | 10.1 |
| 1984 | 341.2 | 1,395 | 100.0 | 25.7 | 31.2 | 3.4 | 39.8 | 29.8 | 9.9 |
| 1985 | 369.7 | 1,497 | 100.0 | 25.5 | 30.9 | 3.5 | 40.1 | 30.2 | 9.9 |
| 1986 | 400.8 | 1,607 | 100.0 | 25.2 | 31.0 | 3.5 | 40.3 | 30.0 | 10.3 |
| 1987 | 439.3 | 1,744 | 100.0 | 24.8 | 31.4 | 3.4 | 40.4 | 29.7 | 10.7 |
| 1988 | 482.8 | 1,898 | 100.0 | 24.5 | 32.1 | 3.5 | 39.9 | 29.3 | 10.5 |
| 1989 | 530.9 | 2,066 | 100.0 | 23.8 | 32.1 | 3.6 | 40.5 | 29.9 | 10.6 |
| 1990 | 591.5 | 2,279 | 100.0 | 23.1 | 32.3 | 3.6 | 41.0 | 29.9 | 11.0 |
| 1991 | 660.2 | 2,518 | 100.0 | 21.9 | 31.7 | 3.6 | 42.9 | 30.9 | 12.0 |

¹Includes all expenditures for health services and supplies other than expenses for program administration and net cost of private health insurance and government public health activities.

²Out-of-pocket payments and private health insurance are combined for these years.

NOTES: These data include revisions in health expenditures back to 1985 and in population back to 1960 and differ from previous editions of Health, United States. They reflect Social Security Administration population revisions as of July 1992.

SOURCE: Office of National Health Statistics, Office of the Actuary: National health expenditures, 1991. Health Care Financing Review. Vol. 14, No. 2. HCFA Pub. No. 0335. Health Care Financing Administration. Washington. U.S. Government Printing Office, Winter 1992.

Table 124 (page 1 of 2). Expenditures for health services and supplies and percent distribution, by type of payer: United States, selected calendar years 1965–91

[Data are compiled by the Health Care Financing Administration]

| Type of payer | 1965 | 1967 | 1970 | 1975 | 1980 | 1985 | 1987 | 1988 | 1989 | 1990 | 1991 |
|---|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| Amount in billions ¹ | | | | | | | | | | | |
| Total ¹ | \$38.2 | \$47.9 | \$69.1 | \$124.7 | \$238.9 | \$407.2 | \$476.9 | \$526.2 | \$583.6 | \$652.4 | \$728.6 |
| Private | 30.3 | 35.0 | 50.1 | 86.2 | 162.0 | 279.0 | 327.5 | 362.5 | 398.3 | 436.6 | 474.1 |
| Private business | 6.0 | 8.3 | 13.7 | 27.8 | 64.3 | 113.5 | 131.8 | 151.0 | 167.0 | 187.9 | 205.4 |
| Private employer share of private health insurance premiums | 4.9 | 5.6 | 9.8 | 19.9 | 47.9 | 83.9 | 95.0 | 110.9 | 122.8 | 140.2 | 152.7 |
| Private employer contribution to Medicare hospital insurance trust fund ² | 0.0 | 1.4 | 2.1 | 5.0 | 10.5 | 20.3 | 24.6 | 26.2 | 28.1 | 29.5 | 32.8 |
| Workers' compensation and temporary disability insurance medical benefits and administration | 0.8 | 1.0 | 1.4 | 2.4 | 5.1 | 7.8 | 10.5 | 12.0 | 14.1 | 16.0 | 17.5 |
| Industrial implant health services | 0.2 | 0.2 | 0.3 | 0.5 | 0.9 | 1.4 | 1.7 | 1.9 | 2.1 | 2.2 | 2.4 |
| Household (individuals) | 23.7 | 26.0 | 35.0 | 55.9 | 90.8 | 153.6 | 181.9 | 196.1 | 213.8 | 228.9 | 247.0 |
| Employee share of private health insurance premiums and individual policy premiums | 4.6 | 4.9 | 6.0 | 9.9 | 16.6 | 30.0 | 37.5 | 37.7 | 42.7 | 46.6 | 52.2 |
| Employee and self-employment contributions and voluntary premiums paid to Medicare hospital insurance trust fund ² | 0.0 | 1.6 | 2.4 | 5.7 | 12.0 | 24.0 | 29.4 | 31.2 | 33.7 | 35.6 | 39.9 |
| Premiums paid by individuals to Medicare supplementary medical insurance trust fund | 0.0 | 0.6 | 1.0 | 1.7 | 2.7 | 5.2 | 6.1 | 8.7 | 11.2 | 10.2 | 10.7 |
| Out-of-pocket health spending by individuals | 19.0 | 18.9 | 25.6 | 38.5 | 59.5 | 94.4 | 108.8 | 118.5 | 126.2 | 136.5 | 144.3 |
| Non-patient revenue | 0.6 | 0.8 | 1.5 | 2.5 | 7.0 | 12.0 | 13.8 | 15.4 | 17.5 | 19.8 | 21.7 |
| Public | 7.9 | 12.8 | 18.9 | 38.5 | 76.8 | 128.2 | 149.4 | 163.7 | 185.4 | 215.8 | 254.5 |
| Federal Government | 3.4 | 7.0 | 10.4 | 21.3 | 42.6 | 68.9 | 77.0 | 84.3 | 96.5 | 113.7 | 133.8 |
| Employer contributions to private health insurance | 0.2 | 0.2 | 0.3 | 1.2 | 2.2 | 4.3 | 4.8 | 6.4 | 8.0 | 9.1 | 9.8 |
| Other ³ | 3.3 | 6.8 | 10.1 | 20.1 | 40.3 | 64.5 | 72.2 | 77.9 | 88.5 | 104.6 | 124.0 |
| State and local government | 4.5 | 5.8 | 8.5 | 17.2 | 34.2 | 59.3 | 72.4 | 79.4 | 88.8 | 102.1 | 120.7 |
| Employer contributions to private health insurance | 0.3 | 0.4 | 0.6 | 1.9 | 6.7 | 16.0 | 17.9 | 20.4 | 23.6 | 26.3 | 29.7 |
| Other ⁴ | 4.2 | 5.5 | 7.9 | 15.2 | 27.5 | 43.3 | 54.5 | 59.1 | 65.2 | 75.8 | 91.0 |
| Percent distribution | | | | | | | | | | | |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Private | 79.3 | 73.2 | 72.6 | 69.2 | 67.8 | 68.5 | 68.7 | 68.9 | 68.2 | 66.9 | 65.1 |
| Private business | 15.6 | 17.3 | 19.8 | 22.3 | 26.9 | 27.9 | 27.6 | 28.7 | 28.6 | 28.8 | 28.2 |
| Private employer share of private health insurance premiums | 12.9 | 11.7 | 14.2 | 16.0 | 20.0 | 20.6 | 19.9 | 21.1 | 21.0 | 21.5 | 21.0 |
| Private employer contribution to Medicare hospital insurance trust fund ² | 0.0 | 2.9 | 3.0 | 4.0 | 4.4 | 5.0 | 5.2 | 5.0 | 4.8 | 4.5 | 4.5 |
| Workers' compensation and temporary disability insurance medical benefits and administration | 2.2 | 2.2 | 2.1 | 2.0 | 2.1 | 1.9 | 2.2 | 2.3 | 2.4 | 2.4 | 2.4 |
| Industrial implant health services | 0.6 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 |
| Household (individuals) | 62.0 | 54.2 | 50.7 | 44.8 | 38.0 | 37.7 | 38.1 | 37.3 | 36.6 | 35.1 | 33.9 |
| Employee share of private health insurance premiums and individual policy premiums | 12.2 | 10.2 | 8.7 | 7.9 | 6.9 | 7.4 | 7.9 | 7.2 | 7.3 | 7.1 | 7.2 |
| Employee and self-employment contributions and voluntary premiums paid to Medicare hospital insurance trust fund ² | 0.0 | 3.3 | 3.4 | 4.6 | 5.0 | 5.9 | 6.2 | 5.9 | 5.8 | 5.5 | 5.5 |
| Premiums paid by individuals to Medicare supplementary medical insurance trust fund | 0.0 | 1.3 | 1.4 | 1.4 | 1.1 | 1.3 | 1.3 | 1.7 | 1.9 | 1.6 | 1.5 |
| Out-of-pocket health spending by individuals | 49.8 | 39.5 | 37.1 | 30.9 | 24.9 | 23.2 | 22.8 | 22.5 | 21.6 | 20.9 | 19.8 |
| Non-patient revenue | 1.7 | 1.7 | 2.2 | 2.0 | 2.9 | 2.9 | 2.9 | 2.9 | 3.0 | 3.0 | 3.0 |

See footnotes at end of table.

Table 124 (page 2 of 2). Expenditures for health services and supplies and percent distribution, by type of payer: United States, selected calendar years 1965–91

[Data are compiled by the Health Care Financing Administration]

| Type of payer | 1965 | 1967 | 1970 | 1975 | 1980 | 1985 | 1987 | 1988 | 1989 | 1990 | 1991 |
|---|------|------|------|------|------|------|------|------|------|------|------|
| Percent distribution | | | | | | | | | | | |
| Public | 20.7 | 26.8 | 27.4 | 30.8 | 32.2 | 31.5 | 31.3 | 31.1 | 31.8 | 33.1 | 34.9 |
| Federal Government | 9.0 | 14.6 | 15.0 | 17.1 | 17.8 | 16.9 | 16.2 | 16.0 | 16.5 | 17.4 | 18.4 |
| Employer contributions to private health insurance. | 0.4 | 0.5 | 0.4 | 0.9 | 0.9 | 1.1 | 1.0 | 1.2 | 1.4 | 1.4 | 1.3 |
| Other ³ | 8.6 | 14.1 | 14.7 | 16.1 | 16.9 | 15.9 | 15.1 | 14.8 | 15.2 | 16.0 | 17.0 |
| State and local government | 11.7 | 12.2 | 12.3 | 13.8 | 14.3 | 14.6 | 15.2 | 15.1 | 15.2 | 15.6 | 16.6 |
| Employer contributions to private health insurance. | 0.7 | 0.8 | 0.9 | 1.5 | 2.8 | 3.9 | 3.7 | 3.9 | 4.0 | 4.0 | 4.1 |
| Other ⁴ | 11.0 | 11.4 | 11.4 | 12.2 | 11.5 | 10.6 | 11.4 | 11.2 | 11.2 | 11.6 | 12.5 |

¹Excludes research and construction.

²Includes one-half of self-employment contribution to Medicare hospital insurance trust fund.

³Includes expenditures for Federal programs such as Medicaid and Medicare with adjustments for contributions by employers and individuals and premiums paid to the Medicare insurance trust fund.

⁴Includes expenditures for State and local programs such as Medicaid and maternal and child health, and employer contributions to Medicare hospital insurance trust fund.

NOTES: This table disaggregates health expenditures according to four classes of payers: businesses, households (individuals), Federal Government, and State and local governments. Where businesses or households pay dedicated funds into government health programs (e.g., Medicare) or employers and employees share in the cost of health premiums, these costs are assigned to businesses or households accordingly. This results in a lower share of expenditures being assigned to the Federal Government than for tabulations of expenditures by source of funds. Estimates of national health expenditure by source of funds aim to track government sponsored health programs over time, and do not delineate the role of business employers in paying for health care. These data include revisions and differ from previous editions of Health, United States.

SOURCE: Office of National Health Statistics, Office of the Actuary: Business, households, and governments - Health Spending 1991. Health Care Financing Review. Vol. 14, No. 3. Health Care Financing Administration. Washington. U.S. Government Printing Office, Winter 1993.

Table 125. Expenditures on hospital care, nursing home care, physician services, and all other personal health care expenditures and percent distribution, according to source of funds: United States, selected years, 1960–91

[Data are compiled by the Health Care Financing Administration]

| Service and year | Total in billions | Out-of-pocket payments | Private health insurance | Other private funds | Government | | |
|---|----------------------|---------------------------|--------------------------------|---------------------------|-----------------------------|----------|----------|
| | | | | | Total ¹ | Medicaid | Medicare |
| Hospital care | | | | | Percent distribution | | |
| 1960 | \$9.3 | 20.7 | 35.6 | 1.2 | 42.5 | ... | ... |
| 1965 | 14.0 | 19.6 | 40.9 | 1.9 | 37.6 | ... | 18.8 |
| 1970 | 27.9 | 9.0 | 34.4 | 3.2 | 53.4 | 8.1 | 21.9 |
| 1975 | 52.4 | 8.4 | 34.4 | 2.8 | 54.5 | 8.8 | 25.8 |
| 1980 | 102.4 | 5.2 | 36.6 | 4.9 | 53.3 | 9.4 | 28.8 |
| 1984 | 157.5 | 5.1 | 36.1 | 4.6 | 54.1 | 9.1 | 28.9 |
| 1985 | 168.3 | 5.2 | 35.4 | 4.9 | 54.4 | 9.2 | 28.9 |
| 1986 | 179.8 | 4.8 | 35.5 | 5.0 | 54.7 | 9.2 | 28.2 |
| 1987 | 194.2 | 4.5 | 35.7 | 5.0 | 54.8 | 9.5 | 27.7 |
| 1988 | 212.0 | 4.9 | 36.0 | 5.3 | 53.9 | 9.4 | 27.1 |
| 1989 | 232.4 | 4.7 | 36.3 | 5.4 | 53.7 | 9.8 | 26.9 |
| 1990 | 258.1 | 4.0 | 36.6 | 5.4 | 54.0 | 11.2 | 26.1 |
| 1991 | 288.6 | 3.4 | 35.2 | 5.1 | 56.3 | 15.0 | 25.4 |
| Nursing home care | | | | | | | |
| 1960 | 1.0 | 80.0 | 0.0 | 6.4 | 13.6 | ... | ... |
| 1965 | 1.7 | 64.5 | 0.1 | 5.8 | 29.5 | ... | ... |
| 1970 | 4.9 | 48.2 | 0.3 | 4.9 | 46.6 | 28.0 | 5.0 |
| 1975 | 9.9 | 42.1 | 0.7 | 4.8 | 52.3 | 47.5 | 2.9 |
| 1980 | 20.0 | 43.3 | 0.9 | 3.1 | 52.7 | 48.6 | 2.1 |
| 1984 | 31.2 | 47.8 | 1.1 | 2.1 | 48.9 | 44.9 | 1.8 |
| 1985 | 34.1 | 48.6 | 1.0 | 1.9 | 48.5 | 44.6 | 1.7 |
| 1986 | 36.7 | 49.1 | 1.0 | 1.9 | 48.0 | 44.1 | 1.6 |
| 1987 | 39.7 | 47.9 | 1.0 | 1.9 | 49.2 | 45.2 | 1.6 |
| 1988 | 42.8 | 48.1 | 1.1 | 1.9 | 48.9 | 44.4 | 2.2 |
| 1989 | 47.5 | 44.2 | 1.1 | 1.9 | 52.7 | 43.4 | 7.2 |
| 1990 | 53.3 | 45.3 | 1.1 | 1.9 | 51.7 | 45.1 | 4.5 |
| 1991 | 59.9 | 43.1 | 1.1 | 1.9 | 53.9 | 47.4 | 4.4 |
| Physician services | | | | | | | |
| 1960 | 5.3 | 62.7 | 30.2 | 0.1 | 7.1 | ... | ... |
| 1965 | 8.2 | 60.6 | 32.5 | 0.1 | 6.8 | ... | ... |
| 1970 | 13.6 | 42.8 | 35.2 | 0.1 | 21.9 | 4.6 | 11.8 |
| 1975 | 23.3 | 32.8 | 39.3 | 0.1 | 27.9 | 7.1 | 14.6 |
| 1980 | 41.9 | 26.9 | 42.9 | 0.1 | 30.2 | 5.1 | 19.0 |
| 1984 | 67.1 | 23.4 | 45.2 | 0.0 | 31.4 | 3.8 | 21.6 |
| 1985 | 74.0 | 21.8 | 45.6 | 0.0 | 32.6 | 3.9 | 22.5 |
| 1986 | 82.1 | 20.8 | 45.7 | 0.0 | 33.5 | 3.9 | 23.1 |
| 1987 | 93.0 | 20.4 | 45.8 | 0.0 | 33.8 | 3.8 | 23.3 |
| 1988 | 105.1 | 19.9 | 46.7 | 0.0 | 33.4 | 3.6 | 23.0 |
| 1989 | 116.1 | 19.4 | 46.4 | 0.0 | 34.1 | 3.7 | 23.6 |
| 1990 | 128.8 | 18.7 | 47.1 | 0.0 | 34.2 | 4.1 | 23.1 |
| 1991 | 142.0 | 18.1 | 47.0 | 0.0 | 34.8 | 4.9 | 23.1 |
| All other personal health care² | | | | | | | |
| 1960 | 8.4 | 87.8 | 1.4 | 2.7 | 8.0 | ... | ... |
| 1965 | 11.7 | 87.4 | 2.2 | 2.6 | 7.8 | ... | ... |
| 1970 | 18.5 | 80.6 | 4.3 | 2.7 | 12.4 | 4.4 | 0.7 |
| 1975 | 31.0 | 72.2 | 8.5 | 3.0 | 16.4 | 6.2 | 1.7 |
| 1980 | 55.1 | 62.1 | 17.5 | 3.5 | 16.9 | 6.0 | 3.1 |
| 1984 | 85.5 | 57.4 | 21.9 | 4.0 | 16.7 | 6.1 | 4.7 |
| 1985 | 93.4 | 56.6 | 21.9 | 4.3 | 17.2 | 6.5 | 4.8 |
| 1986 | 102.2 | 56.1 | 22.2 | 4.1 | 17.7 | 6.9 | 4.8 |
| 1987 | 112.4 | 55.3 | 22.9 | 3.9 | 17.9 | 7.3 | 4.7 |
| 1988 | 122.9 | 54.3 | 23.7 | 3.9 | 18.1 | 7.6 | 4.7 |
| 1989 | 135.0 | 53.2 | 23.6 | 4.0 | 19.1 | 8.4 | 5.2 |
| 1990 | 151.2 | 51.5 | 23.6 | 4.3 | 20.7 | 9.0 | 5.9 |
| 1991 | 169.7 | 48.8 | 23.8 | 4.5 | 22.9 | 10.5 | 6.8 |

¹Includes other government expenditures for these health care services, for example, care funded by the Department of Veterans Affairs and state and locally financed subsidies to hospitals.

²Includes expenditures for dental services, other professional services, home health care, drugs and other medical nondurables, vision products and other medical durables, and other personal health care.

SOURCE: Office of National Health Statistics, Office of the Actuary: National health expenditures, 1991. Health Care Financing Review. Vol. 14, No. 2. HCFA Pub. No. 03335. Health Care Financing Administration. Washington, U.S. Government Printing Office, Winter 1992.

Table 126. Nursing home average monthly charges per resident and percent of residents, according to primary source of payments and selected facility characteristics: United States, 1977 and 1985

[Data are based on reporting by a sample of nursing homes]

| Facility characteristic | Own income or family support | | Medicare | | Medicaid | | Public assistance welfare | | All other sources | |
|--|------------------------------|---------|----------|---------|----------|---------|---------------------------|--------|-------------------|---------|
| | 1977 | 1985 | 1977 | 1985 | 1977 | 1985 | 1977 | 1985 | 1977 | 1985 |
| Average monthly charge ¹ | | | | | | | | | | |
| All facilities | \$690 | \$1,450 | \$1,167 | \$2,141 | \$720 | \$1,504 | \$508 | \$863 | \$440 | \$1,099 |
| Ownership | | | | | | | | | | |
| Proprietary | 686 | 1,444 | 1,048 | 2,058 | 677 | 1,363 | 501 | 763 | 562 | 1,174 |
| Nonprofit and government | 698 | 1,462 | 1,325 | *2,456 | 825 | 1,851 | 534 | 1,237 | 324 | 1,029 |
| Certification | | | | | | | | | | |
| Skilled nursing facility | 866 | 1,797 | 1,136 | 2,315 | 955 | 2,000 | 575 | *1,338 | 606 | 1,589 |
| Skilled nursing and intermediate facility. | 800 | 1,643 | 1,195 | 2,156 | 739 | 1,509 | 623 | 1,215 | 630 | 1,702 |
| Intermediate facility | 567 | 1,222 | ... | ... | 563 | 1,150 | 479 | 900 | *456 | 1,460 |
| Not certified | 447 | 999 | ... | ... | ... | ... | 401 | 664 | *155 | 464 |
| Bed size | | | | | | | | | | |
| Less than 50 beds | 516 | 886 | *869 | *1,348 | 663 | 1,335 | 394 | *835 | *295 | *749 |
| 50–99 beds | 686 | 1,388 | *1,141 | 1,760 | 634 | 1,323 | 493 | 774 | 468 | 1,116 |
| 100–199 beds. | 721 | 1,567 | 1,242 | 2,192 | 691 | 1,413 | 573 | 855 | 551 | 1,504 |
| 200 beds or more | 823 | 1,701 | *1,179 | 2,767 | 925 | 1,919 | 602 | 1,071 | 370 | *866 |
| Geographic region | | | | | | | | | | |
| Northeast | 909 | 1,645 | 1,369 | 2,109 | 975 | 2,035 | *511 | 738 | 395 | 1,244 |
| Midwest | 652 | 1,398 | *1,160 | 2,745 | 639 | 1,382 | 537 | 1,241 | 524 | 1,416 |
| South. | 585 | 1,359 | *1,096 | 2,033 | 619 | 1,200 | 452 | 727 | 342 | 1,057 |
| West | 663 | 1,498 | *868 | 1,838 | 663 | 1,501 | 564 | 837 | *499 | *843 |
| Percent of residents | | | | | | | | | | |
| All facilities | 38.4 | 41.6 | 2.0 | 1.4 | 47.8 | 50.4 | 6.4 | 3.4 | 5.3 | 3.2 |
| Ownership | | | | | | | | | | |
| Proprietary | 37.5 | 40.1 | 1.7 | 1.6 | 49.6 | 52.1 | 7.3 | 3.9 | 3.8 | 2.3 |
| Nonprofit and government | 40.4 | 44.9 | 2.7 | *0.9 | 43.8 | 46.6 | 4.4 | 2.3 | 8.6 | 5.3 |
| Certification | | | | | | | | | | |
| Skilled nursing facility | 41.5 | 39.1 | 4.6 | 2.6 | 41.4 | 53.7 | 7.7 | 2.1 | 4.8 | 2.4 |
| Skilled nursing and intermediate facility. | 31.6 | 36.8 | 2.6 | 1.9 | 58.3 | 57.8 | 3.2 | 1.3 | 4.1 | 2.2 |
| Intermediate facility | 36.3 | 41.4 | ... | ... | 55.3 | 55.9 | 5.3 | *1.5 | 3.1 | *1.1 |
| Not certified | 64.2 | 65.5 | ... | ... | ... | ... | 19.0 | 18.0 | 16.7 | 12.9 |
| Bed size | | | | | | | | | | |
| Less than 50 beds | 49.6 | 53.1 | *1.8 | *1.2 | 32.7 | 33.8 | 10.5 | 11.2 | 5.4 | *0.6 |
| 50–99 beds | 39.5 | 49.5 | *1.2 | *1.3 | 46.5 | 42.9 | 8.1 | 3.9 | 4.7 | 2.5 |
| 100–199 beds. | 38.4 | 39.6 | 2.6 | 1.5 | 50.4 | 55.2 | 4.6 | 1.6 | 4.0 | 2.1 |
| 200 beds or more | 28.6 | 30.1 | 2.3 | *1.5 | 55.5 | 57.7 | 4.6 | 3.0 | 9.1 | 7.7 |
| Geographic region | | | | | | | | | | |
| Northeast | 34.6 | 34.8 | 3.3 | 1.7 | 53.3 | 52.9 | 3.8 | 7.1 | 5.1 | 3.5 |
| Midwest | 44.5 | 49.1 | 1.5 | *0.8 | 42.1 | 45.9 | 6.5 | 2.5 | 5.4 | 1.6 |
| South. | 32.2 | 39.4 | *1.4 | *1.2 | 52.5 | 53.8 | 8.2 | 2.5 | 5.7 | 3.1 |
| West | 41.3 | 40.4 | 2.5 | *2.7 | 44.7 | 49.2 | 6.7 | *1.2 | 4.8 | 6.6 |

¹Includes life-care residents and no-charge residents.

*Relative standard error greater than 30 percent.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: The National Nursing Home Survey, 1977 summary for the United States, by J. F. Van Nostrand, A. Zappolo, E. Hing, et al. Vital and Health Statistics. Series 13, No. 43. DHEW Pub. No. (PHS) 79-1794. Public Health Service. Washington, U.S. Government Printing Office, July 1979; and The National Nursing Home Survey: 1985 summary for the United States, by E. Hing, E. Sekscenski, and G. Strahan. Vital and Health Statistics. Series 13, No. 97. DHHS Pub. No. (PHS) 89-1758. Public Health Service. Washington, U.S. Government Printing Office, Jan. 1989.

Table 127. Nursing home average monthly charges per resident and percent of residents, according to selected facility and resident characteristics: United States, 1964, 1973–74, 1977, and 1985

[Data are based on reporting by a sample of nursing homes]

| Facility and resident characteristic | Average monthly charge ¹ | | | | Percent of residents | | | |
|---|-------------------------------------|----------------------|-------|---------|----------------------|----------------------|-------|-------|
| | 1964 | 1973–74 ² | 1977 | 1985 | 1964 | 1973–74 ² | 1977 | 1985 |
| Facility characteristic | | | | | | | | |
| All facilities..... | \$186 | \$479 | \$689 | \$1,456 | 100.0 | 100.0 | 100.0 | 100.0 |
| Ownership: | | | | | | | | |
| Proprietary | 205 | 489 | 670 | 1,379 | 60.2 | 69.8 | 68.2 | 68.7 |
| Nonprofit and government | 145 | 456 | 732 | 1,624 | 39.8 | 30.2 | 31.8 | 31.3 |
| Certification ³ : | | | | | | | | |
| Skilled nursing facility | ... | 566 | 880 | 1,905 | ... | 39.8 | 20.7 | 18.5 |
| Skilled nursing and intermediate facility | ... | 514 | 762 | 1,571 | ... | 24.5 | 40.5 | 45.2 |
| Intermediate facility | ... | 376 | 556 | 1,179 | ... | 22.4 | 28.3 | 24.9 |
| Not certified | ... | 329 | 390 | 875 | ... | 13.3 | 10.6 | 11.4 |
| Bed size: | | | | | | | | |
| Less than 50 beds..... | --- | 397 | 546 | 1,036 | --- | 15.2 | 12.9 | 8.9 |
| 50–90 beds | --- | 448 | 643 | 1,335 | --- | 34.1 | 30.5 | 27.6 |
| 100–199 beds..... | --- | 502 | 706 | 1,478 | --- | 35.6 | 38.8 | 43.2 |
| 200 beds or more | --- | 576 | 837 | 1,759 | --- | 15.1 | 17.9 | 20.2 |
| Geographic region: | | | | | | | | |
| Northeast..... | 213 | 651 | 918 | 1,781 | 28.6 | 22.0 | 22.4 | 23.6 |
| Midwest | 171 | 433 | 640 | 1,399 | 36.6 | 34.6 | 34.5 | 32.5 |
| South..... | 161 | 410 | 585 | 1,256 | 18.1 | 26.0 | 27.2 | 29.4 |
| West | 204 | 454 | 653 | 1,458 | 16.7 | 17.4 | 15.9 | 14.5 |
| Resident characteristic | | | | | | | | |
| All residents..... | 186 | 479 | 689 | 1,456 | 100.0 | 100.0 | 100.0 | 100.0 |
| Age: | | | | | | | | |
| Under 65 years..... | 155 | 434 | 585 | 1,379 | 12.0 | 10.6 | 13.6 | 11.6 |
| 65–74 years | 184 | 473 | 669 | 1,372 | 18.9 | 15.0 | 16.2 | 14.2 |
| 75–84 years | 191 | 488 | 710 | 1,468 | 41.7 | 35.5 | 35.7 | 34.1 |
| 85 years and over..... | 194 | 485 | 719 | 1,497 | 27.5 | 38.8 | 34.5 | 40.0 |
| Sex: | | | | | | | | |
| Male..... | 171 | 466 | 652 | 1,438 | 35.0 | 29.1 | 28.8 | 28.4 |
| Female..... | 194 | 484 | 705 | 1,463 | 65.0 | 70.9 | 71.2 | 71.6 |

¹Includes life-care residents and no-charge residents.

²Data exclude residents of personal care homes.

³Medicare extended care facilities and Medicaid skilled nursing homes from the 1973–74 survey were considered to be equivalent to Medicare or Medicaid skilled nursing facilities in 1977 and 1985 for the purposes of this comparison.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics: Charges for care and sources of payment for residents in nursing homes, United States, June–August 1969, by J. F. Van Nostrand and J. F. Sutton. Vital and Health Statistics. Series 12, No. 21. DHEW Pub. No. (HRA) 74-1706. Public Health Service. Washington. U.S. Government Printing Office, July 1973; Charges for care and sources of payment for residents in nursing homes, United States, National Nursing Home Survey, Aug. 1973–Apr. 1974, by E. Hing. Vital and Health Statistics. Series 13, No. 32. DHEW Pub. No. (PHS) 78-1783. Public Health Service. Washington. U.S. Government Printing Office. Nov. 1977; The National Nursing Home Survey: 1977 summary for the United States, by J. F. Van Nostrand, A. Zappolo, E. Hing, et al. Vital and Health Statistics. Series 13, No. 43. DHEW Pub. No. (PHS) 79-1794. Public Health Service. Washington. U.S. Government Printing Office, July 1979; and The National Nursing Home Survey: 1985 summary for the United States, by E. Hing, E. Sekscenski, and G. Strahan. Vital and Health Statistics. Series 13, No. 97. DHHS Pub. No. (PHS) 89-1758. Public Health Service. Washington. U.S. Government Printing Office, Jan. 1989.

Table 128. National funding for health research and development and average annual percent change, according to source of funds: United States, selected years 1960–91

[Data are compiled by the National Institutes of Health from multiple sources]

| Year and period | All funding | Federal | State and local | Source of funds | |
|-------------------------------|-------------|---------|-----------------|-----------------------|---------------------------------|
| | | | | Industry ¹ | Private nonprofit organizations |
| Amount in millions | | | | | |
| 1960 | \$886 | \$448 | \$46 | \$253 | \$139 |
| 1965 | 1,890 | 1,174 | 90 | 450 | 176 |
| 1970 | 2,847 | 1,667 | 170 | 795 | 215 |
| 1971 | 3,168 | 1,877 | 198 | 860 | 233 |
| 1972 | 3,536 | 2,147 | 228 | 934 | 227 |
| 1973 | 3,750 | 2,225 | 245 | 1,048 | 232 |
| 1974 | 4,443 | 2,754 | 254 | 1,183 | 252 |
| 1975 | 4,701 | 2,832 | 286 | 1,319 | 264 |
| 1976 | 5,107 | 3,059 | 312 | 1,469 | 267 |
| 1977 | 5,568 | 3,396 | 338 | 1,614 | 220 |
| 1978 | 6,273 | 3,811 | 416 | 1,800 | 246 |
| 1979 | 7,162 | 4,321 | 465 | 2,093 | 284 |
| 1980 | 7,967 | 4,723 | 480 | 2,459 | 305 |
| 1981 | 8,738 | 4,848 | 564 | 2,998 | 328 |
| 1982 | 9,595 | 4,970 | 642 | 3,593 | 390 |
| 1983 | 10,778 | 5,399 | 718 | 4,205 | 456 |
| 1984 | 12,159 | 6,087 | 800 | 4,765 | 507 |
| 1985 | 13,565 | 6,791 | 884 | 5,352 | 538 |
| 1986 | 14,900 | 6,895 | 1,034 | 6,188 | 782 |
| 1987 | 16,940 | 7,847 | 1,191 | 7,103 | 800 |
| 1988 | 19,011 | 8,425 | 1,300 | 8,432 | 854 |
| 1989 | 20,977 | 9,163 | 1,471 | 9,404 | 939 |
| 1990 ² | 23,076 | 9,791 | 1,632 | 10,634 | 1,020 |
| 1991 ² | 25,560 | 10,711 | 1,702 | 12,020 | 1,128 |
| Average annual percent change | | | | | |
| 1960–91 | 11.5 | 10.8 | 12.4 | 13.3 | 7.0 |
| 1960–65 | 16.4 | 21.2 | 14.4 | 12.2 | 4.8 |
| 1965–70 | 8.5 | 7.3 | 13.6 | 12.1 | 4.1 |
| 1970–75 | 10.6 | 11.2 | 11.0 | 10.7 | 4.2 |
| 1970–71 | 11.3 | 12.6 | 16.5 | 8.2 | 8.4 |
| 1971–72 | 11.6 | 14.4 | 15.2 | 8.6 | -2.6 |
| 1972–73 | 6.1 | 3.6 | 7.5 | 12.2 | 2.2 |
| 1973–74 | 18.5 | 23.8 | 3.7 | 12.9 | 8.6 |
| 1974–75 | 5.8 | 2.8 | 12.6 | 11.5 | 4.8 |
| 1975–80 | 11.1 | 10.8 | 10.9 | 13.3 | 2.9 |
| 1975–76 | 8.6 | 8.0 | 9.1 | 11.4 | 1.1 |
| 1976–77 | 9.0 | 11.0 | 8.3 | 9.9 | -17.6 |
| 1977–78 | 12.7 | 12.2 | 23.1 | 11.5 | 11.8 |
| 1978–79 | 14.2 | 13.4 | 11.8 | 16.3 | 15.4 |
| 1979–80 | 11.2 | 9.3 | 3.2 | 17.5 | 7.4 |
| 1980–85 | 11.2 | 7.5 | 13.0 | 16.8 | 12.0 |
| 1980–81 | 9.7 | 2.6 | 17.5 | 21.9 | 7.5 |
| 1981–82 | 9.8 | 2.5 | 13.8 | 19.8 | 18.9 |
| 1982–83 | 12.3 | 8.6 | 11.8 | 17.0 | 16.9 |
| 1983–84 | 12.8 | 12.7 | 11.4 | 13.3 | 11.2 |
| 1984–85 | 11.6 | 11.6 | 10.5 | 12.3 | 6.1 |
| 1985–90 | 11.2 | 7.6 | 13.0 | 14.7 | 13.6 |
| 1985–86 | 9.8 | 1.5 | 17.0 | 15.6 | 45.4 |
| 1986–87 | 13.7 | 13.8 | 15.2 | 14.8 | 2.3 |
| 1987–88 | 12.2 | 7.4 | 9.2 | 18.7 | 6.8 |
| 1988–89 | 10.3 | 8.8 | 13.2 | 11.5 | 10.0 |
| 1989–90 | 10.0 | 6.9 | 10.9 | 13.1 | 8.6 |
| 1990–91 | 10.8 | 9.4 | 4.3 | 13.0 | 10.6 |

¹Includes expenditures for drug research. These expenditures are included in the "drugs and sundries" component of the Health Care Financing Administration's National Health Expenditure Series, not under "research."

²Preliminary figures.

NOTE: These data include revisions and may differ from previous editions of *Health, United States*.

SOURCES: National Institutes of Health: NIH Data Book, 1992. Public Health Service, U.S. Department of Health and Human Services, NIH Pub. No. 92-1261, Sept. 1992; National Institutes of Health, Office of Science Policy and Legislation: Selected data.

Table 129. Federal funding for health research and development and percent distribution, according to agency: United States, selected fiscal years 1970–91

[Data are compiled by the National Institutes of Health from Federal Government sources]

| Agency | 1970 ¹ | 1975 ¹ | 1980 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 ² |
|---|-------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|
| Amount in millions | | | | | | | | | | | |
| Total | \$1,667 | \$2,832 | \$4,723 | \$6,087 | \$6,791 | \$6,895 | \$7,847 | \$8,425 | \$9,163 | \$9,791 | \$10,711 |
| Percent distribution | | | | | | | | | | | |
| All Federal agencies | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Department of Health and Human Services . . | 70.6 | 77.6 | 78.2 | 78.9 | 79.7 | 81.1 | 83.3 | 84.1 | 84.9 | 85.2 | 86.0 |
| National Institutes of Health | 52.4 | 66.4 | 67.4 | 69.9 | 71.1 | 72.6 | 74.6 | 74.7 | 74.0 | 72.9 | 72.0 |
| Centers for Disease Control and Prevention. | --- | 1.5 | 1.8 | 0.7 | 0.7 | 0.8 | 0.8 | 1.1 | 1.3 | 1.0 | 1.1 |
| Other Public Health Service. | 16.2 | 8.3 | 7.9 | 7.5 | 7.3 | 7.3 | 7.7 | 8.0 | 9.1 | 10.8 | 12.3 |
| Other Department of Health and Human Services. | 2.0 | 1.3 | 1.1 | 0.7 | 0.6 | 0.5 | 0.4 | 0.4 | 0.6 | 0.5 | 0.7 |
| Other agencies | 29.4 | 22.4 | 21.8 | 21.1 | 20.3 | 18.9 | 16.7 | 15.9 | 15.1 | 14.8 | 14.0 |
| Department of Agriculture | 3.0 | 2.2 | 3.1 | 2.4 | 2.1 | 1.1 | 1.3 | 1.3 | 1.3 | 1.1 | 1.1 |
| Department of Defense | 7.5 | 4.1 | 4.5 | 6.8 | 6.5 | 7.2 | 5.2 | 5.1 | 4.2 | 4.4 | 3.2 |
| Department of Education ³ | ... | ... | 0.7 | 0.7 | 0.6 | 0.6 | 0.6 | 0.7 | 0.6 | 0.6 | 0.4 |
| Department of Energy ⁴ | 6.3 | 5.8 | 4.5 | 3.0 | 2.6 | 2.4 | 2.3 | 2.4 | 2.4 | 2.8 | 3.4 |
| Department of the Interior | 0.7 | 0.3 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| Environmental Protection Agency. | ... | 1.3 | 1.7 | 0.7 | 0.8 | 0.5 | 0.6 | 0.3 | 0.6 | 0.3 | 0.3 |
| International Development Cooperation Agency ⁵ | 0.6 | 0.2 | 0.3 | 0.3 | 0.6 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.2 |
| National Aeronautics and Space Administration | 5.2 | 2.6 | 1.5 | 1.8 | 1.7 | 1.9 | 1.7 | 1.6 | 1.5 | 1.5 | 1.5 |
| National Science Foundation | 1.7 | 1.6 | 1.6 | 1.4 | 1.3 | 1.2 | 1.1 | 1.0 | 1.0 | 0.8 | 0.7 |
| Department of Veterans Affairs. | 3.5 | 3.3 | 2.8 | 3.1 | 3.3 | 2.7 | 2.7 | 2.6 | 2.6 | 2.4 | 2.4 |
| All other departments and agencies | 0.9 | 1.0 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.3 |

¹Data for fiscal year ending June 30; all other data for fiscal year ending September 30.

²Preliminary figures.

³Office of Handicapped Research, formerly included in other Department of Health and Human Services.

⁴Includes Atomic Energy Commission and Energy Research and Development Administration.

⁵Includes Department of State and Agency for International Development.

SOURCES: National Institutes of Health: NIH Data Book, 1992. Public Health Service, U.S. Department of Health and Human Services, NIH Pub. No. 92-1261, Sept. 1992; Office of Science Policy and Legislation, National Institutes of Health, Public Health Service: Unpublished data.

Table 130. Federal spending for human immunodeficiency virus (HIV)-related activities, according to agency and type of activity: United States, fiscal years 1982-91

[Data are compiled from Federal Government appropriations]

| Agency and type of activity | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 |
|---|------|------|-------|-------|-------|-------|---------|---------|---------|---------|
| Agency | | | | | | | | | | |
| All Federal spending..... | \$8 | \$44 | \$104 | \$208 | \$507 | \$926 | \$1,591 | \$2,275 | \$2,978 | \$3,648 |
| Department of Health and Human Services, total..... | 6 | 39 | 97 | 197 | 402 | 777 | 1,420 | 2,002 | 2,597 | 3,246 |
| Public Health Service, total..... | 6 | 29 | 61 | 109 | 234 | 502 | 962 | 1,301 | 1,590 | 1,888 |
| National Institutes of Health..... | 4 | 22 | 44 | 64 | 135 | 261 | 474 | 602 | 744 | 807 |
| Alcohol, Drug Abuse, and Mental Health Administration..... | — | 1 | 3 | 3 | 12 | 48 | 112 | 173 | 215 | 237 |
| Centers for Disease Control and Prevention..... | 2 | 6 | 14 | 33 | 62 | 136 | 305 | 378 | 443 | 497 |
| Food and Drug Administration..... | — | — | 1 | 9 | 10 | 16 | 30 | 74 | 57 | 63 |
| Health Resources and Services Administration..... | — | — | — | — | 15 | 12 | 37 | 60 | 113 | 266 |
| Agency for Health Care Policy and Research..... | — | — | — | — | — | — | 1 | 7 | 8 | 10 |
| Office of the Assistant Secretary for Health..... | — | — | — | — | — | 30 | 3 | 6 | 8 | 6 |
| Indian Health Service..... | — | — | — | — | — | — | — | 1 | 3 | 2 |
| Health Care Financing Administration..... | — | 10 | 30 | 75 | 135 | 215 | 360 | 545 | 780 | 1,050 |
| Social Security Administration..... | — | — | 6 | 13 | 33 | 60 | 98 | 153 | 224 | 305 |
| Other Department of Health and Human Services Agencies..... | — | — | — | — | — | — | — | 3 | 3 | 3 |
| Department of Veterans Affairs..... | 2 | 5 | 7 | 11 | 23 | 55 | 84 | 142 | 208 | 217 |
| Department of Defense..... | — | — | — | — | 79 | 74 | 53 | 86 | 125 | 127 |
| Agency for International Development..... | — | — | — | — | 2 | 17 | 30 | 40 | 41 | 50 |
| Other departments..... | — | — | — | — | 1 | 3 | 4 | 5 | 7 | 8 |
| Activity | | | | | | | | | | |
| Research..... | 4 | 24 | 47 | 85 | 193 | 344 | 659 | 981 | 1,164 | 1,282 |
| Public Health Service..... | 4 | 23 | 47 | 84 | 166 | 316 | 635 | 943 | 1,116 | 1,230 |
| Department of Veterans Affairs..... | — | 1 | — | 1 | 2 | 4 | 7 | 11 | 14 | 8 |
| Department of Defense..... | — | — | — | — | 25 | 24 | 17 | 27 | 34 | 44 |
| Education and prevention..... | 3 | 7 | 15 | 27 | 84 | 197 | 367 | 403 | 470 | 504 |
| Public Health Service..... | 2 | 6 | 14 | 25 | 52 | 145 | 300 | 303 | 366 | 400 |
| Department of Veterans Affairs..... | 1 | 1 | 1 | 2 | 5 | 11 | 17 | 28 | 29 | 29 |
| Department of Defense..... | — | — | — | — | 24 | 22 | 16 | 26 | 28 | 19 |
| Agency for International Development..... | — | — | — | — | 2 | 17 | 30 | 40 | 41 | 50 |
| Other..... | — | — | — | — | 1 | 2 | 4 | 6 | 6 | 6 |
| Medical care..... | 1 | 13 | 36 | 83 | 197 | 325 | 467 | 738 | 1,120 | 1,557 |
| Health Care Financing Administration: | | | | | | | | | | |
| Medicaid (Federal share)..... | — | 10 | 30 | 70 | 130 | 200 | 330 | 490 | 670 | 870 |
| Medicare..... | — | — | — | 5 | 5 | 15 | 30 | 55 | 110 | 180 |
| Public Health Service..... | — | — | — | — | 16 | 41 | 27 | 55 | 108 | 258 |
| Department of Veterans Affairs..... | 1 | 3 | 6 | 8 | 16 | 40 | 60 | 103 | 165 | 180 |
| Department of Defense..... | — | — | — | — | 30 | 28 | 20 | 33 | 63 | 64 |
| Other..... | — | — | — | — | — | 1 | — | 2 | 4 | 5 |
| Cash assistance..... | — | — | 6 | 13 | 33 | 60 | 98 | 153 | 224 | 305 |
| Social Security Administration: | | | | | | | | | | |
| Disability Insurance..... | — | — | 5 | 10 | 25 | 45 | 80 | 125 | 185 | 240 |
| Supplemental Security Income..... | — | — | 1 | 3 | 8 | 15 | 18 | 28 | 39 | 65 |

NOTES: These data include revisions and differ from previous editions of *Health, United States*. Federal expenditures on HIV-related activities are estimated at about 35 to 40 percent of total HIV-related expenditures which include, for example, expenditures covered by private health insurance, out-of-pocket costs to patients, and the States' share of Medicaid, public hospital, and other local expenditures.

SOURCE: Budget Office, Public Health Service: Unpublished data.

Table 131. Public health expenditures by State and territorial health agencies, according to source of funds and program area: United States, selected fiscal years 1976-89

[Data are based on reporting by State and territorial health agencies]

| Funds and program area | 1976 | 1978 | 1980 | 1982 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Amount in millions | | | | | | | | | | |
| Total | \$2,540 | \$3,256 | \$4,451 | \$5,145 | \$6,242 | \$6,950 | \$7,491 | \$8,128 | \$8,540 | \$9,669 |
| Source of funds | | | | | | | | | | |
| Federal grants and contracts | 797 | 1,133 | 1,573 | 1,778 | 2,344 | 2,556 | 2,700 | 2,822 | 3,072 | 3,503 |
| Department of Agriculture | 154 | 351 | 678 | 916 | 1,307 | 1,455 | 1,551 | 1,652 | 1,690 | 1,988 |
| Other | 643 | 782 | 895 | 861 | 1,037 | 1,101 | 1,148 | 1,170 | 1,381 | 1,515 |
| State | 1,486 | 1,802 | 2,513 | 2,923 | 3,352 | 3,810 | 4,124 | 4,562 | 4,696 | 5,184 |
| Local | 96 | 87 | 114 | 123 | 151 | 149 | 148 | 140 | 144 | 154 |
| Fees, reimbursements, and other | 161 | 234 | 250 | 321 | 395 | 435 | 520 | 604 | 628 | 829 |
| Program area | | | | | | | | | | |
| WIC ¹ | 138 | 337 | 661 | 890 | 1,269 | 1,431 | 1,534 | 1,622 | 1,660 | 1,938 |
| Noninstitutional personal health other than WIC ² | 1,079 | 1,356 | 1,698 | 1,905 | 2,380 | 2,521 | 2,777 | 3,130 | 3,483 | 3,972 |
| State health agency-operated institutions | 531 | 641 | 819 | 950 | 979 | 1,153 | 1,236 | 1,227 | 1,342 | 1,459 |
| Environmental health | 199 | 237 | 298 | 355 | 415 | 467 | 480 | 528 | 464 | 520 |
| Health resources | 208 | 297 | 357 | 360 | 563 | 627 | 651 | 709 | 720 | 824 |
| Laboratory | 104 | 131 | 161 | 182 | 214 | 229 | 238 | 265 | 279 | 308 |
| Other ³ | 281 | 256 | 457 | 504 | 423 | 521 | 576 | 647 | 592 | 649 |
| Percent distribution | | | | | | | | | | |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Source of funds | | | | | | | | | | |
| Federal grants and contracts | 31.4 | 34.8 | 35.3 | 34.6 | 37.6 | 36.8 | 36.0 | 34.7 | 36.0 | 36.2 |
| Department of Agriculture | 6.1 | 10.8 | 15.2 | 17.8 | 20.9 | 20.9 | 20.7 | 20.3 | 19.8 | 20.6 |
| Other | 25.3 | 24.0 | 20.1 | 16.7 | 16.6 | 15.8 | 15.3 | 14.4 | 16.2 | 15.7 |
| State | 58.5 | 55.3 | 56.5 | 56.8 | 53.7 | 54.8 | 55.0 | 56.1 | 55.0 | 53.6 |
| Local | 3.8 | 2.7 | 2.6 | 2.4 | 2.4 | 2.1 | 2.0 | 1.7 | 1.7 | 1.6 |
| Fees, reimbursements, and other | 6.3 | 7.2 | 5.6 | 6.2 | 6.3 | 6.3 | 6.9 | 7.4 | 7.3 | 8.6 |
| Program area | | | | | | | | | | |
| WIC ¹ | 5.4 | 10.4 | 14.8 | 17.3 | 20.3 | 20.6 | 20.5 | 20.0 | 19.4 | 20.0 |
| Noninstitutional personal health other than WIC ² | 42.5 | 41.6 | 38.2 | 37.0 | 38.1 | 36.3 | 37.1 | 38.5 | 40.8 | 41.1 |
| State health agency-operated institutions | 20.9 | 19.7 | 18.4 | 18.5 | 15.7 | 16.6 | 16.5 | 15.1 | 15.7 | 15.1 |
| Environmental health | 7.8 | 7.3 | 6.7 | 6.9 | 6.6 | 6.7 | 6.4 | 6.5 | 5.4 | 5.4 |
| Health resources | 8.2 | 9.1 | 8.0 | 7.0 | 9.0 | 9.0 | 8.7 | 8.7 | 8.4 | 8.5 |
| Laboratory | 4.1 | 4.0 | 3.6 | 3.5 | 3.4 | 3.3 | 3.2 | 3.3 | 3.3 | 3.2 |
| Other ³ | 11.0 | 7.9 | 10.3 | 9.8 | 6.8 | 7.5 | 7.7 | 8.0 | 6.9 | 6.7 |

¹Supplemental Food Program for Women, Infants, and Children.

²Includes funds for maternal and child health services other than WIC, handicapped children's services, communicable disease control, dental health, chronic disease control, mental health, alcohol and drug abuse, and supporting personal health programs.

³Funds for general administration and funds to local health departments not allocated to program areas.

NOTE: Data are reported for 55 health agencies in 50 States, the District of Columbia, and 4 territories (Puerto Rico, American Samoa, Guam, and the Virgin Islands).

SOURCES: Public Health Foundation: Public Health Agencies 1987: Expenditures and Sources of Funds. Washington. 1987; Unpublished data.

Table 132. Personal health care per capita expenditures and average annual percent change, according to geographic division and State: United States, selected years 1966–82

[Data are compiled by the Health Care Financing Administration]

| Geographic division and State | Amount per capita | | | | | | Average annual percent change | |
|--------------------------------|-------------------|-------|-------|-------|-------|---------|-------------------------------|---------|
| | 1966 | 1969 | 1972 | 1976 | 1980 | 1982 | 1966–80 | 1980–82 |
| United States | \$201 | \$280 | \$381 | \$605 | \$958 | \$1,220 | 11.8 | 12.8 |
| New England | 234 | 328 | 441 | 686 | 1,058 | 1,356 | 11.4 | 13.2 |
| Maine | 173 | 242 | 328 | 542 | 870 | 1,091 | 12.2 | 12.0 |
| New Hampshire | 188 | 245 | 330 | 507 | 759 | 986 | 10.5 | 14.0 |
| Vermont | 197 | 274 | 352 | 531 | 778 | 978 | 10.3 | 12.1 |
| Massachusetts | 253 | 360 | 489 | 760 | 1,175 | 1,508 | 11.6 | 13.3 |
| Rhode Island | 231 | 315 | 413 | 672 | 1,062 | 1,351 | 11.5 | 12.8 |
| Connecticut | 236 | 330 | 438 | 675 | 1,046 | 1,348 | 11.2 | 13.5 |
| Middle Atlantic | 227 | 319 | 425 | 662 | 1,017 | 1,310 | 11.3 | 13.5 |
| New York | 258 | 366 | 488 | 745 | 1,107 | 1,417 | 11.0 | 13.1 |
| New Jersey | 192 | 264 | 355 | 578 | 877 | 1,115 | 11.5 | 12.8 |
| Pennsylvania | 201 | 279 | 372 | 590 | 972 | 1,273 | 11.9 | 14.4 |
| East North Central | 203 | 278 | 378 | 610 | 978 | 1,249 | 11.9 | 13.0 |
| Ohio | 195 | 264 | 361 | 597 | 958 | 1,247 | 12.0 | 14.1 |
| Indiana | 182 | 252 | 337 | 542 | 861 | 1,101 | 11.7 | 13.1 |
| Illinois | 220 | 300 | 407 | 634 | 1,033 | 1,308 | 11.7 | 12.5 |
| Michigan | 211 | 286 | 388 | 635 | 1,014 | 1,281 | 11.9 | 12.4 |
| Wisconsin | 192 | 269 | 373 | 610 | 952 | 1,219 | 12.1 | 13.2 |
| West North Central | 200 | 273 | 369 | 597 | 973 | 1,241 | 12.0 | 12.9 |
| Minnesota | 216 | 287 | 389 | 602 | 976 | 1,229 | 11.4 | 12.2 |
| Iowa | 197 | 265 | 351 | 563 | 935 | 1,176 | 11.8 | 12.1 |
| Missouri | 198 | 273 | 365 | 627 | 997 | 1,285 | 12.2 | 13.5 |
| North Dakota | 197 | 273 | 367 | 676 | 1,034 | 1,325 | 12.6 | 13.2 |
| South Dakota | 181 | 241 | 327 | 522 | 887 | 1,154 | 12.0 | 14.1 |
| Nebraska | 195 | 268 | 371 | 598 | 948 | 1,216 | 12.0 | 13.3 |
| Kansas | 195 | 270 | 379 | 568 | 988 | 1,271 | 12.3 | 13.4 |
| South Atlantic | 169 | 242 | 342 | 551 | 879 | 1,115 | 12.5 | 12.6 |
| Delaware | 209 | 286 | 381 | 599 | 912 | 1,153 | 11.1 | 12.4 |
| Maryland | 190 | 273 | 390 | 609 | 957 | 1,232 | 12.2 | 13.5 |
| District of Columbia | 430 | 667 | 958 | 1,349 | 2,198 | 2,838 | 12.4 | 13.6 |
| Virginia | 151 | 213 | 301 | 493 | 811 | 1,054 | 12.8 | 14.0 |
| West Virginia | 161 | 227 | 313 | 508 | 808 | 1,057 | 12.2 | 14.4 |
| North Carolina | 143 | 204 | 282 | 461 | 737 | 931 | 12.4 | 12.4 |
| South Carolina | 125 | 182 | 251 | 423 | 686 | 857 | 12.9 | 11.8 |
| Georgia | 150 | 217 | 319 | 515 | 843 | 1,048 | 13.1 | 11.5 |
| Florida | 184 | 264 | 377 | 623 | 975 | 1,228 | 12.6 | 12.2 |
| East South Central | 148 | 211 | 294 | 483 | 798 | 1,025 | 12.8 | 13.3 |
| Kentucky | 155 | 218 | 286 | 444 | 739 | 957 | 11.8 | 13.8 |
| Tennessee | 166 | 232 | 324 | 531 | 874 | 1,144 | 12.6 | 14.4 |
| Alabama | 145 | 210 | 300 | 501 | 809 | 1,033 | 13.1 | 13.0 |
| Mississippi | 115 | 163 | 242 | 425 | 730 | 897 | 14.1 | 10.8 |
| West South Central | 170 | 242 | 331 | 533 | 859 | 1,096 | 12.3 | 13.0 |
| Arkansas | 142 | 198 | 284 | 470 | 766 | 994 | 12.8 | 13.9 |
| Louisiana | 156 | 226 | 322 | 511 | 857 | 1,106 | 12.9 | 13.6 |
| Oklahoma | 183 | 263 | 351 | 539 | 852 | 1,086 | 11.6 | 12.9 |
| Texas | 177 | 249 | 338 | 549 | 876 | 1,110 | 12.1 | 12.6 |
| Mountain | 189 | 259 | 346 | 541 | 849 | 1,070 | 11.3 | 12.3 |
| Montana | 175 | 236 | 325 | 510 | 801 | 1,036 | 11.5 | 13.7 |
| Idaho | 153 | 210 | 292 | 455 | 695 | 868 | 11.4 | 11.8 |
| Wyoming | 200 | 268 | 327 | 451 | 710 | 873 | 9.5 | 10.9 |
| Colorado | 233 | 311 | 396 | 605 | 942 | 1,209 | 10.5 | 13.3 |
| New Mexico | 157 | 214 | 282 | 458 | 722 | 904 | 11.5 | 11.9 |
| Arizona | 190 | 271 | 376 | 582 | 882 | 1,112 | 11.6 | 12.3 |
| Utah | 158 | 211 | 286 | 458 | 714 | 896 | 11.4 | 12.0 |
| Nevada | 196 | 282 | 389 | 658 | 1,163 | 1,380 | 13.6 | 8.9 |
| Pacific | 234 | 328 | 440 | 691 | 1,093 | 1,380 | 11.6 | 12.4 |
| Washington | 219 | 297 | 390 | 584 | 915 | 1,165 | 10.8 | 12.8 |
| Oregon | 197 | 274 | 364 | 587 | 912 | 1,165 | 11.6 | 13.0 |
| California | 242 | 340 | 460 | 727 | 1,152 | 1,451 | 11.8 | 12.2 |
| Alaska | 227 | 289 | 340 | 560 | 961 | 1,187 | 10.9 | 11.1 |
| Hawaii | 208 | 300 | 401 | 598 | 932 | 1,228 | 11.3 | 14.8 |

NOTES: Per capita spending estimates are the expenditure level of services rendered in a geographic area per resident population. Per capita figures cannot be interpreted directly as spending per resident unless substantially all of the services provided in a State are consumed by residents of that State. U.S. estimates do not include services provided in U.S. territories or possessions, services rendered by U.S. taxpayers while living abroad, and services furnished to U.S. personnel living abroad or on military vessels.

SOURCE: Office of the Actuary: Personal health care expenditures by State, selected years 1966–1982, by K. R. Levit. Health Care Financing Review. HCFA Pub. No. 03199. Health Care Financing Administration. Washington. U.S. Government Printing Office, Summer 1985.

Table 133. Hospital care per capita expenditures and average annual percent change, according to geographic division and State: United States, selected years 1966-82

[Data are compiled by the Health Care Financing Administration]

| Geographic division and State | Amount per capita | | | | | | Average annual percent change | |
|--------------------------------|-------------------|-------|-------|-------|-------|-------|-------------------------------|---------|
| | 1966 | 1969 | 1972 | 1976 | 1980 | 1982 | 1966-80 | 1980-82 |
| United States | \$80 | \$119 | \$166 | \$276 | \$441 | \$577 | 13.0 | 14.4 |
| New England | 101 | 151 | 207 | 335 | 515 | 669 | 12.3 | 14.0 |
| Maine | 74 | 107 | 138 | 246 | 411 | 517 | 13.0 | 12.2 |
| New Hampshire | 73 | 98 | 134 | 213 | 334 | 458 | 11.5 | 17.1 |
| Vermont | 86 | 126 | 162 | 242 | 338 | 443 | 10.3 | 14.5 |
| Massachusetts | 116 | 178 | 247 | 400 | 624 | 810 | 12.8 | 13.9 |
| Rhode Island | 101 | 148 | 196 | 328 | 492 | 623 | 12.0 | 12.5 |
| Connecticut | 91 | 133 | 185 | 296 | 444 | 578 | 12.0 | 14.1 |
| Middle Atlantic | 94 | 144 | 200 | 328 | 495 | 641 | 12.6 | 13.8 |
| New York | 110 | 171 | 236 | 377 | 540 | 679 | 12.0 | 12.1 |
| New Jersey | 71 | 103 | 145 | 254 | 371 | 498 | 12.5 | 15.9 |
| Pennsylvania | 82 | 127 | 178 | 300 | 505 | 675 | 13.9 | 15.6 |
| East North Central | 81 | 117 | 167 | 286 | 465 | 615 | 13.3 | 15.0 |
| Ohio | 74 | 107 | 154 | 273 | 446 | 599 | 13.7 | 15.9 |
| Indiana | 63 | 95 | 134 | 235 | 383 | 512 | 13.8 | 15.6 |
| Illinois | 90 | 132 | 195 | 323 | 539 | 700 | 13.6 | 14.0 |
| Michigan | 90 | 123 | 170 | 295 | 477 | 628 | 12.7 | 14.7 |
| Wisconsin | 76 | 117 | 163 | 268 | 401 | 539 | 12.6 | 15.9 |
| West North Central | 79 | 117 | 158 | 270 | 451 | 592 | 13.3 | 14.6 |
| Minnesota | 89 | 122 | 168 | 272 | 425 | 540 | 11.8 | 12.7 |
| Iowa | 69 | 103 | 139 | 238 | 404 | 536 | 13.5 | 15.2 |
| Missouri | 81 | 123 | 164 | 295 | 510 | 679 | 14.0 | 15.4 |
| North Dakota | 83 | 121 | 156 | 283 | 479 | 624 | 13.3 | 14.1 |
| South Dakota | 75 | 101 | 133 | 234 | 398 | 530 | 12.7 | 15.4 |
| Nebraska | 75 | 115 | 157 | 259 | 429 | 568 | 13.3 | 15.1 |
| Kansas | 76 | 116 | 160 | 269 | 451 | 593 | 13.6 | 14.7 |
| South Atlantic | 68 | 103 | 151 | 252 | 411 | 539 | 13.7 | 14.5 |
| Delaware | 91 | 131 | 174 | 291 | 437 | 552 | 11.9 | 12.4 |
| Maryland | 84 | 122 | 185 | 287 | 464 | 606 | 13.0 | 14.3 |
| District of Columbia | 192 | 334 | 564 | 903 | 1,516 | 2,021 | 15.9 | 15.5 |
| Virginia | 63 | 92 | 132 | 218 | 372 | 506 | 13.5 | 16.6 |
| West Virginia | 70 | 107 | 152 | 264 | 424 | 564 | 13.7 | 15.3 |
| North Carolina | 57 | 85 | 121 | 201 | 324 | 428 | 13.2 | 14.9 |
| South Carolina | 51 | 79 | 107 | 188 | 303 | 397 | 13.6 | 14.5 |
| Georgia | 56 | 86 | 135 | 228 | 386 | 492 | 14.8 | 12.9 |
| Florida | 66 | 103 | 151 | 268 | 434 | 569 | 14.4 | 14.5 |
| East South Central | 60 | 91 | 131 | 226 | 383 | 507 | 14.2 | 15.1 |
| Kentucky | 60 | 91 | 121 | 202 | 326 | 433 | 12.9 | 15.2 |
| Tennessee | 67 | 102 | 149 | 252 | 430 | 578 | 14.2 | 15.9 |
| Alabama | 61 | 92 | 134 | 238 | 408 | 541 | 14.5 | 15.2 |
| Mississippi | 48 | 73 | 111 | 198 | 343 | 431 | 15.1 | 12.1 |
| West South Central | 66 | 97 | 135 | 229 | 380 | 500 | 13.3 | 14.7 |
| Arkansas | 56 | 77 | 114 | 197 | 324 | 443 | 13.4 | 16.9 |
| Louisiana | 63 | 94 | 145 | 239 | 412 | 549 | 14.4 | 15.4 |
| Oklahoma | 63 | 102 | 132 | 224 | 378 | 498 | 13.7 | 14.8 |
| Texas | 69 | 101 | 137 | 233 | 379 | 495 | 12.9 | 14.3 |
| Mountain | 76 | 109 | 145 | 234 | 377 | 483 | 12.1 | 13.2 |
| Montana | 67 | 95 | 122 | 193 | 336 | 445 | 12.2 | 15.1 |
| Idaho | 50 | 75 | 104 | 162 | 254 | 335 | 12.3 | 14.8 |
| Wyoming | 85 | 116 | 123 | 188 | 313 | 398 | 9.8 | 12.8 |
| Colorado | 100 | 136 | 171 | 274 | 422 | 557 | 10.8 | 14.9 |
| New Mexico | 69 | 96 | 122 | 222 | 348 | 449 | 12.3 | 13.6 |
| Arizona | 78 | 119 | 169 | 256 | 396 | 498 | 12.3 | 12.1 |
| Utah | 58 | 81 | 114 | 188 | 307 | 399 | 12.6 | 14.0 |
| Nevada | 68 | 108 | 151 | 273 | 540 | 630 | 16.0 | 8.0 |
| Pacific | 85 | 123 | 169 | 280 | 445 | 583 | 12.6 | 14.5 |
| Washington | 72 | 102 | 133 | 223 | 337 | 434 | 11.7 | 13.5 |
| Oregon | 66 | 96 | 127 | 219 | 347 | 468 | 12.6 | 16.1 |
| California | 88 | 129 | 180 | 298 | 479 | 626 | 12.9 | 14.3 |
| Alaska | 149 | 173 | 164 | 255 | 446 | 552 | 8.1 | 11.3 |
| Hawaii | 79 | 115 | 146 | 222 | 352 | 479 | 11.3 | 16.7 |

NOTES: Per capita spending estimates are the expenditure level of services rendered in a geographic area per resident population. Per capita figures cannot be interpreted directly as spending per resident unless substantially all of the services provided in a State are consumed by residents of that State.

SOURCE: Office of the Actuary: Personal health care expenditures by State, selected years 1966-1982, by K. R. Levit. Health Care Financing Review. HCFA Pub. No. 03199. Health Care Financing Administration. Washington. U.S. Government Printing Office, Summer 1985.

Table 134. Nursing home care per capita expenditures and average annual percent change, according to geographic division and State: United States, selected years 1966–82

[Data are compiled by the Health Care Financing Administration]

| Geographic division and State | Amount per capita | | | | | | Average annual percent change | |
|--------------------------------|-------------------|------|------|------|------|-------|-------------------------------|---------|
| | 1966 | 1969 | 1972 | 1976 | 1980 | 1982 | 1966–80 | 1980–82 |
| United States | \$12 | \$19 | \$31 | \$52 | \$90 | \$114 | 15.5 | 12.5 |
| New England | 20 | 28 | 47 | 85 | 145 | 186 | 15.2 | 13.3 |
| Maine | 15 | 23 | 40 | 70 | 134 | 176 | 16.9 | 14.6 |
| New Hampshire | 16 | 20 | 35 | 43 | 71 | 90 | 11.2 | 12.6 |
| Vermont | 19 | 27 | 39 | 75 | 121 | 149 | 14.1 | 11.0 |
| Massachusetts | 22 | 32 | 52 | 94 | 152 | 192 | 14.8 | 12.4 |
| Rhode Island | 15 | 21 | 34 | 78 | 169 | 214 | 18.9 | 12.5 |
| Connecticut | 19 | 29 | 49 | 90 | 156 | 206 | 16.2 | 14.9 |
| Middle Atlantic | 14 | 21 | 36 | 66 | 108 | 145 | 15.7 | 15.9 |
| New York | 16 | 26 | 46 | 85 | 135 | 184 | 16.5 | 16.7 |
| New Jersey | 10 | 15 | 24 | 45 | 77 | 97 | 15.7 | 12.2 |
| Pennsylvania | 12 | 18 | 28 | 48 | 88 | 116 | 15.3 | 14.8 |
| East North Central | 12 | 19 | 31 | 54 | 97 | 125 | 16.1 | 13.5 |
| Ohio | 12 | 18 | 27 | 53 | 99 | 143 | 16.3 | 20.2 |
| Indiana | 12 | 20 | 33 | 57 | 102 | 129 | 16.5 | 12.5 |
| Illinois | 13 | 20 | 33 | 52 | 90 | 109 | 14.8 | 10.1 |
| Michigan | 10 | 17 | 27 | 48 | 86 | 106 | 16.6 | 11.0 |
| Wisconsin | 14 | 22 | 39 | 71 | 120 | 150 | 16.6 | 11.8 |
| West North Central | 18 | 28 | 44 | 69 | 131 | 172 | 15.2 | 14.6 |
| Minnesota | 22 | 33 | 57 | 91 | 175 | 235 | 16.0 | 15.9 |
| Iowa | 22 | 36 | 51 | 81 | 143 | 168 | 14.3 | 8.4 |
| Missouri | 12 | 19 | 29 | 47 | 95 | 139 | 15.9 | 21.0 |
| North Dakota | 19 | 33 | 47 | 60 | 112 | 154 | 13.5 | 17.3 |
| South Dakota | 18 | 30 | 49 | 69 | 132 | 165 | 15.3 | 11.8 |
| Nebraska | 17 | 27 | 42 | 68 | 112 | 140 | 14.4 | 11.8 |
| Kansas | 18 | 26 | 42 | 65 | 130 | 163 | 15.2 | 12.0 |
| South Atlantic | 8 | 12 | 20 | 33 | 59 | 77 | 15.3 | 14.2 |
| Delaware | 8 | 12 | 20 | 42 | 67 | 86 | 16.4 | 13.3 |
| Maryland | 9 | 17 | 24 | 46 | 75 | 102 | 16.4 | 16.6 |
| District of Columbia | 6 | 10 | 18 | 22 | 43 | 55 | 15.1 | 13.1 |
| Virginia | 6 | 9 | 16 | 30 | 63 | 85 | 18.3 | 16.2 |
| West Virginia | 3 | 5 | 12 | 20 | 41 | 62 | 20.5 | 23.0 |
| North Carolina | 6 | 11 | 16 | 30 | 58 | 75 | 17.6 | 13.7 |
| South Carolina | 6 | 9 | 16 | 28 | 62 | 76 | 18.2 | 10.7 |
| Georgia | 8 | 13 | 23 | 37 | 67 | 79 | 16.4 | 8.6 |
| Florida | 11 | 15 | 25 | 31 | 48 | 65 | 11.1 | 16.4 |
| East South Central | 7 | 11 | 20 | 35 | 67 | 86 | 17.5 | 13.3 |
| Kentucky | 9 | 14 | 23 | 40 | 81 | 104 | 17.0 | 13.3 |
| Tennessee | 6 | 10 | 17 | 28 | 56 | 76 | 17.3 | 16.5 |
| Alabama | 8 | 14 | 22 | 40 | 62 | 79 | 15.8 | 12.9 |
| Mississippi | 4 | 7 | 15 | 30 | 71 | 90 | 22.8 | 12.6 |
| West South Central | 12 | 19 | 31 | 48 | 79 | 94 | 14.4 | 9.1 |
| Arkansas | 13 | 21 | 34 | 50 | 95 | 112 | 15.3 | 8.6 |
| Louisiana | 8 | 13 | 22 | 38 | 68 | 89 | 16.5 | 14.4 |
| Oklahoma | 19 | 31 | 47 | 58 | 91 | 111 | 11.8 | 10.4 |
| Texas | 11 | 18 | 30 | 48 | 78 | 88 | 15.0 | 6.2 |
| Mountain | 10 | 15 | 23 | 35 | 59 | 74 | 13.5 | 12.0 |
| Montana | 12 | 17 | 33 | 43 | 66 | 92 | 12.9 | 18.1 |
| Idaho | 12 | 17 | 26 | 45 | 69 | 84 | 13.3 | 10.3 |
| Wyoming | 6 | 12 | 23 | 24 | 38 | 49 | 14.1 | 13.6 |
| Colorado | 15 | 21 | 33 | 54 | 86 | 104 | 13.3 | 10.0 |
| New Mexico | 5 | 9 | 15 | 16 | 34 | 49 | 14.7 | 20.0 |
| Arizona | 8 | 13 | 17 | 22 | 41 | 53 | 12.4 | 13.7 |
| Utah | 9 | 12 | 17 | 30 | 55 | 63 | 13.8 | 7.0 |
| Nevada | 7 | 10 | 20 | 29 | 60 | 82 | 16.6 | 16.9 |
| Pacific | 12 | 18 | 31 | 48 | 82 | 97 | 14.7 | 8.8 |
| Washington | 16 | 21 | 43 | 61 | 109 | 137 | 14.7 | 12.1 |
| Oregon | 17 | 24 | 37 | 57 | 94 | 113 | 13.0 | 9.6 |
| California | 11 | 18 | 30 | 47 | 78 | 91 | 15.0 | 8.0 |
| Alaska | 1 | 2 | 9 | 17 | 14 | 26 | 20.7 | 36.3 |
| Hawaii | 6 | 10 | 18 | 28 | 36 | 63 | 13.7 | 32.3 |

NOTES: Per capita spending estimates are the expenditure level of services rendered in a geographic area per resident population. Per capita figures cannot be interpreted directly as spending per resident unless substantially all of the services provided in a State are consumed by residents of that State.

SOURCE: Office of the Actuary: Personal health care expenditures by State, selected years 1966–1982, by K. R. Levit. Health Care Financing Review. HCFA Pub. No. 03199. Health Care Financing Administration. Washington. U.S. Government Printing Office, Summer 1985.

Table 135. Health care coverage for persons under 65 years of age, according to type of coverage and selected characteristics: United States, 1980, 1984, and 1989

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Private insurance | | | Medicaid ¹ | | | Not covered ² | | |
|------------------------------------|-------------------|------|------|-----------------------|------|------|--------------------------|------|------|
| | 1980 | 1984 | 1989 | 1980 | 1984 | 1989 | 1980 | 1984 | 1989 |
| Percent of population | | | | | | | | | |
| Total ^{3,4} | 78.8 | 76.9 | 76.6 | 5.9 | 6.0 | 6.4 | 12.5 | 15.4 | 15.7 |
| Age | | | | | | | | | |
| Under 15 years | 74.7 | 71.9 | 71.7 | 10.2 | 10.8 | 11.4 | 12.8 | 16.1 | 15.9 |
| Under 5 years | 70.3 | 67.6 | 68.1 | 12.0 | 13.4 | 13.3 | 15.2 | 18.0 | 17.0 |
| 5-14 years | 76.7 | 74.2 | 73.6 | 9.4 | 9.4 | 10.4 | 11.7 | 15.0 | 15.3 |
| 15-44 years | 79.3 | 77.0 | 76.6 | 4.2 | 4.4 | 4.4 | 14.2 | 17.6 | 18.1 |
| 45-64 years | 83.6 | 83.6 | 83.3 | 3.1 | 2.7 | 3.4 | 8.6 | 10.2 | 10.6 |
| Sex ³ | | | | | | | | | |
| Male..... | 79.5 | 77.5 | 76.9 | 4.7 | 5.0 | 5.2 | 12.7 | 15.8 | 16.4 |
| Female..... | 78.2 | 76.3 | 76.2 | 7.1 | 7.1 | 7.6 | 12.2 | 15.1 | 14.9 |
| Race ³ | | | | | | | | | |
| White | 81.9 | 80.0 | 79.7 | 3.9 | 4.1 | 4.5 | 11.4 | 14.2 | 14.5 |
| Black | 60.1 | 58.9 | 59.2 | 17.9 | 17.5 | 17.1 | 19.0 | 22.3 | 22.0 |
| Family income ^{3,5} | | | | | | | | | |
| Less than \$14,000..... | 38.6 | 34.1 | 34.6 | 27.6 | 26.5 | 26.6 | 31.0 | 37.8 | 37.3 |
| \$14,000-\$24,999..... | 61.1 | 71.3 | 71.4 | 9.2 | 4.2 | 4.8 | 25.9 | 22.1 | 21.4 |
| \$25,000-\$34,999..... | 79.0 | 88.3 | 87.9 | 3.0 | 1.2 | 1.2 | 15.0 | 8.7 | 9.3 |
| \$35,000-\$49,999..... | 90.2 | 93.1 | 92.4 | 1.1 | 0.4 | 0.8 | 6.2 | 4.8 | 5.6 |
| \$50,000 or more | 93.7 | 95.2 | 95.7 | 0.6 | 0.4 | 0.4 | 3.9 | 3.1 | 3.2 |
| Geographic region ³ | | | | | | | | | |
| Northeast | 81.7 | 80.4 | 83.4 | 7.0 | 7.4 | 5.8 | 10.3 | 11.8 | 10.3 |
| Midwest | 83.8 | 80.6 | 81.9 | 5.8 | 7.0 | 7.1 | 9.0 | 11.8 | 10.7 |
| South | 75.6 | 74.4 | 71.8 | 4.8 | 4.4 | 5.7 | 15.0 | 18.4 | 20.0 |
| West | 74.3 | 72.3 | 72.1 | 6.5 | 6.2 | 7.2 | 15.3 | 19.0 | 19.1 |
| Location of residence ³ | | | | | | | | | |
| Within MSA | 79.7 | 77.6 | 77.2 | 6.2 | 6.5 | 6.4 | 11.3 | 14.4 | 15.1 |
| Outside MSA | 77.0 | 75.4 | 74.3 | 5.2 | 5.2 | 6.5 | 14.8 | 17.5 | 17.8 |

¹Includes persons receiving Aid to Families with Dependent Children or Supplemental Security Income or those with current Medicaid cards.

²Includes persons not covered by private insurance, Medicaid, Medicare, and military plans.

³Age adjusted.

⁴Includes all other races not shown separately and unknown family income.

⁵Family income categories for 1989. Income categories for 1980 are: less than \$7,000; \$7,000-\$9,999; \$10,000-\$14,999; \$15,000-\$24,999; \$25,000 or more; and, in 1984 are: less than \$10,000; \$10,000-\$18,999; \$19,000-\$29,999; \$30,000-\$39,999; and \$40,000 or more.

NOTES: Percents do not add to 100 because the percent with other types of health insurance (e.g., Medicare, military) is not shown, and because persons with both private insurance and Medicaid appear in both columns. 1980 denominators include persons with unknown health insurance (1.0 percent).

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Interview Statistics and Division of Analysis: Data from the National Health Interview Survey.

Table 136. Health care coverage for persons 65 years of age and over, according to type of coverage and selected characteristics: United States, 1980, 1984, and 1989

[Data are based on household interviews of a sample of the civilian noninstitutionalized population]

| Characteristic | Medicare and private insurance | | | Medicare and Medicaid ¹ | | | Medicare only ² | | |
|------------------------------------|--------------------------------|------|------|------------------------------------|------|------|----------------------------|------|------|
| | 1980 | 1984 | 1989 | 1980 | 1984 | 1989 | 1980 | 1984 | 1989 |
| Percent of population | | | | | | | | | |
| Total ^{3,4} | 64.4 | 70.9 | 73.5 | 8.1 | 5.4 | 5.7 | 22.7 | 20.0 | 16.8 |
| Age | | | | | | | | | |
| 65–74 years | 67.0 | 73.3 | 74.2 | 6.8 | 4.5 | 5.0 | 20.6 | 17.7 | 15.5 |
| 75 years and over | 59.9 | 66.8 | 72.3 | 10.3 | 7.0 | 6.8 | 26.4 | 24.1 | 19.0 |
| 75–84 years | 61.9 | 69.2 | 74.1 | 9.7 | 6.5 | 6.4 | 24.8 | 22.0 | 17.4 |
| 85 years and over | 51.2 | 56.2 | 64.8 | 12.7 | 9.3 | 8.5 | 33.0 | 33.4 | 26.1 |
| Sex ³ | | | | | | | | | |
| Male..... | 65.6 | 71.6 | 73.9 | 5.7 | 3.3 | 4.0 | 23.1 | 20.8 | 17.2 |
| Female..... | 63.6 | 70.5 | 73.4 | 9.6 | 6.9 | 6.8 | 22.4 | 19.4 | 16.4 |
| Race ³ | | | | | | | | | |
| White | 68.3 | 74.4 | 77.3 | 6.6 | 4.0 | 4.5 | 21.0 | 18.5 | 14.7 |
| Black | 26.5 | 38.1 | 39.3 | 23.3 | 19.9 | 16.5 | 40.6 | 35.4 | 37.9 |
| Family income ^{3,5} | | | | | | | | | |
| Less than \$14,000..... | 53.4 | 57.5 | 64.8 | 15.7 | 12.3 | 11.4 | 28.2 | 27.3 | 21.5 |
| \$14,000–\$24,999..... | 72.9 | 79.8 | 81.2 | 4.8 | 1.8 | 2.6 | 19.1 | 15.1 | 13.4 |
| \$25,000–\$34,999..... | 74.1 | 80.3 | 80.0 | 3.9 | 2.2 | 2.4 | 18.3 | 13.7 | 12.5 |
| \$35,000–\$49,999..... | 74.4 | 81.0 | 80.3 | 2.5 | *2.3 | *1.9 | 16.8 | 11.9 | 10.2 |
| \$50,000 or more | 71.9 | 78.5 | 76.5 | 2.2 | *1.8 | *1.1 | 18.3 | 14.4 | 12.6 |
| Geographic region ³ | | | | | | | | | |
| Northeast | 67.4 | 74.3 | 73.1 | 5.6 | 3.5 | 4.0 | 22.3 | 18.4 | 18.0 |
| Midwest | 71.2 | 77.6 | 79.6 | 4.9 | 3.2 | 2.9 | 19.9 | 16.8 | 14.1 |
| South | 58.9 | 65.1 | 70.6 | 10.8 | 7.9 | 7.7 | 25.6 | 23.0 | 18.3 |
| West | 60.7 | 68.2 | 71.4 | 10.9 | 6.5 | 7.6 | 21.7 | 21.0 | 16.0 |
| Location of residence ³ | | | | | | | | | |
| Within MSA..... | 64.2 | 71.6 | 73.6 | 7.5 | 4.7 | 5.1 | 23.0 | 19.6 | 16.8 |
| Outside MSA..... | 64.9 | 69.8 | 73.4 | 9.2 | 6.6 | 7.2 | 22.2 | 20.7 | 16.8 |

¹Includes persons receiving Aid to Families with Dependent Children or Supplemental Security Income or those with current Medicaid cards.

²Includes persons not covered by private insurance or Medicaid and a small proportion of persons with other types of coverage, such as CHAMPUS or public assistance.

³Age adjusted.

⁴Includes all other races not shown separately and unknown family income.

⁵Family income categories for 1989. Income categories for 1980 are: less than \$7,000; \$7,000–\$9,999; \$10,000–\$14,999; \$15,000–\$24,999; \$25,000 or more; and, in 1984 are: less than \$10,000; \$10,000–\$18,999; \$19,000–\$29,999; \$30,000–\$39,999; and \$40,000 or more.

*Relative standard error greater than 30 percent.

NOTES: Percents do not add to 100 because the percent without Medicare is not shown and persons with Medicare, private insurance, and Medicaid appear in both columns. 1980 denominators include persons with unknown health insurance (less than 1 percent). In 1989, 5.2 percent of all persons 65 years of age and over had no Medicare, but only 0.9 percent were without health insurance.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, Division of Health Interview Statistics and Division of Analysis: Data from the National Health Interview Survey.

Table 137. Health maintenance organizations and enrollment, according to model type, geographic region, and Federal program: United States, selected years 1976–92

[Data are based on a census of health maintenance organizations]

| Plans and enrollment | 1976 | 1980 | 1984 | 1985 ¹ | 1986 | 1987 | 1989 | 1990 | 1991 | 1992 |
|--|-------|-------|--------|-------------------|--------|--------|--------|--------|--------|--------|
| Plans | | | | | | | | | | |
| All plans | 174 | 235 | 304 | 478 | 623 | 647 | 604 | 572 | 553 | 555 |
| Model type ² : | | | | | | | | | | |
| Individual practice association ³ | 41 | 97 | 125 | 244 | 384 | 409 | 385 | 360 | 346 | 340 |
| Group ⁴ | 122 | 138 | 179 | 234 | 239 | 238 | 219 | 212 | 168 | 166 |
| Mixed | --- | --- | --- | --- | --- | --- | --- | --- | 39 | 49 |
| Geographic region: | | | | | | | | | | |
| Northeast | 29 | 55 | 67 | 81 | 105 | 114 | 118 | 115 | 116 | 111 |
| Midwest | 52 | 72 | 106 | 157 | 202 | 203 | 183 | 160 | 157 | 165 |
| South | 23 | 45 | 66 | 141 | 188 | 194 | 172 | 176 | 163 | 161 |
| West | 70 | 63 | 65 | 99 | 128 | 136 | 131 | 121 | 117 | 118 |
| Enrollment ⁵ | | | | | | | | | | |
| Number of persons in thousands | | | | | | | | | | |
| Total | 5,987 | 9,078 | 15,101 | 21,005 | 25,725 | 29,232 | 31,883 | 33,028 | 34,004 | 36,076 |
| Model type ² : | | | | | | | | | | |
| Individual practice association ³ | 390 | 1,694 | 2,929 | 6,379 | 9,932 | 12,014 | 13,542 | 13,741 | 13,619 | 14,665 |
| Group ⁴ | 5,562 | 7,384 | 12,172 | 14,625 | 15,793 | 17,217 | 18,342 | 19,287 | 17,063 | 16,543 |
| Mixed | --- | --- | --- | --- | --- | --- | --- | --- | 3,322 | 4,868 |
| Federal program ⁶ : | | | | | | | | | | |
| Medicaid ⁷ | --- | 265 | 349 | 561 | 802 | 811 | 1,043 | 1,187 | 1,446 | 1,728 |
| Medicare | --- | 391 | 671 | 1,064 | 1,490 | 1,674 | 1,761 | 1,842 | 2,029 | 2,161 |
| Geographic region: | | | | | | | | | | |
| Number enrolled per 1,000 population | | | | | | | | | | |
| Northeast | 19.9 | 31.4 | 57.8 | 79.4 | 100.5 | 117.0 | 137.7 | 145.6 | 153.7 | 161.1 |
| Midwest | 15.2 | 28.1 | 61.6 | 96.8 | 116.4 | 130.5 | 129.2 | 126.2 | 126.5 | 128.3 |
| South | 4.3 | 8.3 | 20.4 | 37.5 | 54.4 | 64.2 | 70.5 | 70.5 | 71.4 | 78.1 |
| West | 96.9 | 121.8 | 148.0 | 172.5 | 190.4 | 205.6 | 225.5 | 232.1 | 237.7 | 247.0 |

¹Increases partly due to changes in reporting methods (see Appendix I).

²Eleven HMO's with 35,000 enrollment did not report model type in 1976.

³An HMO operating under an individual practice association model contracts with an association of physicians from various settings (a mixture of solo and group practices) to provide health services.

⁴Group includes staff, group, and network model types.

⁵Open-ended enrollment in HMO plans, amounting to 1.2 million on Jan. 1, 1991, is not included in this table.

⁶Federal program enrollment in HMO's refers to enrollment by Medicaid or Medicare beneficiaries, where the Medicaid or Medicare program contracts directly with the HMO to pay the appropriate annual premium.

⁷Data for 1989 and later include enrollment in managed care health insuring organizations.

NOTES: Data as of June 30 in 1976–84, December 31 in 1985–87, and January 1 in 1989–92. Medicaid enrollment in 1989–90 are as of June 30. HMO's in Guam are not included.

SOURCES: Office of Health Maintenance Organizations: Summary of the National HMO census of prepaid plans—June 1976 and National HMO Census 1980. Public Health Service. Washington. U.S. Government Printing Office. DHHS Pub. No. (PHS) 80-50159; InterStudy: National HMO Census: Annual Report on the Growth of HMO's in the U.S., 1984–1985 Editions; The InterStudy Edge, 1989, 1990, vol. 2; Competitive Edge, vols. 1 and 2, issues 1, 1991 and 1992; 1986 December Update of Medicare Enrollment in HMO's. 1988 January Update of Medicare Enrollment in HMO's. Excelsior, Minnesota (Copyrights 1983, 1984, 1985, 1986, 1987, 1988, 1989; Used with the permission of InterStudy); U.S. Bureau of the Census: Current Population Reports. Series P-25, Nos. 998 and 1058. Washington. U.S. Government Printing Office, Dec. 1986 and Mar. 1990. U.S. Dept. of Commerce: Press release CB 91-100. Mar. 11, 1991. Health Care Financing Administration: Unpublished data; Centers for Disease Control and Prevention, National Center for Health Statistics: Data computed by the Division of Analysis.

Table 138. Medicare enrollees and expenditures and percent distribution, according to type of service: United States and other areas, selected years 1967-91

[Data are compiled by the Health Care Financing Administration]

| Type of service | 1967 | 1970 | 1975 | 1980 | 1985 | 1988 | 1989 | 1990 | 1991 ¹ |
|---|---------|---------|----------|----------|----------|----------|-----------|-----------|-------------------|
| Enrollees | | | | | | | | | |
| Total ² | 19.5 | 20.5 | 25.0 | 28.5 | 31.1 | 33.0 | 33.6 | 34.2 | 34.9 |
| Hospital insurance. | 19.5 | 20.4 | 24.6 | 28.1 | 30.6 | 32.4 | 33.0 | 33.7 | 34.4 |
| Supplementary medical insurance | 17.9 | 19.6 | 23.9 | 27.4 | 30.0 | 31.6 | 32.1 | 32.6 | 33.2 |
| Expenditures | | | | | | | | | |
| Total | \$4,737 | \$7,493 | \$16,316 | \$36,822 | \$72,294 | \$88,561 | \$100,586 | \$110,984 | \$121,340 |
| Total hospital insurance ³ | 3,430 | 5,281 | 11,581 | 25,577 | 48,414 | 53,331 | 60,803 | 66,997 | 72,570 |
| Inpatient hospital. | 3,034 | 4,827 | 10,877 | 24,082 | 44,680 | 49,062 | 53,822 | 59,301 | 63,167 |
| Skilled nursing facility | 282 | 246 | 278 | 401 | 577 | 816 | 2,978 | 2,876 | 2,520 |
| Home health agency | 29 | 51 | 160 | 568 | 2,144 | 2,313 | 2,765 | 3,517 | 5,130 |
| Hospice | .. | .. | .. | .. | 43 | 156 | 238 | 356 | 500 |
| Administrative expenses ⁴ | 77 | 157 | 266 | 512 | 834 | 815 | 792 | 758 | 1,021 |
| Peer Review activity | .. | .. | .. | 14 | 136 | 169 | 208 | 189 | 232 |
| Total supplementary medical insurance | 1,307 | 2,212 | 4,735 | 11,245 | 23,880 | 35,230 | 39,783 | 43,987 | 48,770 |
| Physician | 1,128 | 1,790 | 3,415 | 8,188 | 17,311 | 24,372 | 27,057 | 29,628 | 32,231 |
| Outpatient hospital | 33 | 114 | 652 | 1,935 | 4,304 | 6,534 | 7,662 | 8,475 | 9,756 |
| Home health agency | 10 | 34 | 87 | 195 | 54 | 62 | 73 | 81 | 70 |
| Group practice prepayment | 19 | 26 | 80 | 203 | 720 | 2,019 | 2,308 | 2,827 | 3,524 |
| Independent laboratory | 7 | 11 | 39 | 114 | 558 | 983 | 1,194 | 1,457 | 1,648 |
| Administrative expenses | 110 | 237 | 462 | 610 | 933 | 1,260 | 1,489 | 1,519 | 1,541 |
| Percent distribution of expenditures | | | | | | | | | |
| Total hospital insurance ³ | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Inpatient hospital | 88.5 | 91.4 | 93.9 | 94.2 | 92.3 | 92.0 | 88.5 | 88.5 | 87.0 |
| Skilled nursing facility | 8.2 | 4.7 | 2.4 | 1.6 | 1.2 | 1.5 | 4.9 | 4.3 | 3.5 |
| Home health agency | 0.8 | 1.0 | 1.4 | 2.2 | 4.4 | 4.3 | 4.5 | 5.2 | 7.1 |
| Hospice | .. | .. | .. | .. | 0.1 | 0.3 | 0.4 | 0.5 | 0.7 |
| Administrative expenses ⁴ | 2.2 | 3.0 | 2.3 | 2.0 | 1.7 | 1.5 | 1.3 | 1.1 | 1.4 |
| Peer Review activity | .. | .. | .. | 0.1 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Total supplementary medical insurance | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Physician | 86.3 | 80.9 | 72.1 | 72.8 | 72.5 | 69.2 | 68.0 | 67.4 | 66.1 |
| Outpatient hospital | 2.5 | 5.2 | 13.8 | 17.2 | 18.0 | 18.5 | 19.3 | 19.3 | 20.0 |
| Home health agency | 0.8 | 1.5 | 1.8 | 1.7 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 |
| Group practice prepayment | 1.5 | 1.2 | 1.7 | 1.8 | 3.0 | 5.7 | 5.8 | 6.4 | 7.2 |
| Independent laboratory | 0.5 | 0.5 | 0.8 | 1.0 | 2.3 | 2.8 | 3.0 | 3.3 | 3.4 |
| Administrative expenses | 8.4 | 10.7 | 9.8 | 5.4 | 3.9 | 3.6 | 3.7 | 3.5 | 3.2 |

¹Preliminary figures.

²Number enrolled in the hospital insurance and/or supplementary medical insurance programs on July 1.

³In 1967 includes coverage for outpatient hospital diagnostic services.

⁴Includes costs of experiments and demonstration projects.

NOTE: Table includes Medicare data for residents of the United States, Puerto Rico, Virgin Islands, Guam, other outlying areas, foreign countries, and unknown residence.

SOURCE: Office of Medicare Cost Estimates, Office of the Actuary and Bureau of Data Management and Strategy, Health Care Financing Administration, Washington.

Table 139. Medicare enrollment, persons served, and payments for Medicare enrollees 65 years of age and over, according to selected characteristics: United States and other areas, selected years 1967–90

[Data are compiled by the Health Care Financing Administration]

| Characteristic | Enrollment in millions ¹ | | | | Persons served per 1,000 enrollees ² | | | | Payments per person served ³ | | | | Payments per enrollee | | | |
|--------------------------------------|--|------|------|------|--|------|------|------|--|---------|---------|---------|--------------------------|-------|---------|---------|
| | 1967 | 1977 | 1987 | 1990 | 1967 | 1977 | 1987 | 1990 | 1967 | 1977 | 1987 | 1990 | 1967 | 1977 | 1987 | 1990 |
| Total | 19.5 | 23.8 | 29.4 | 30.9 | 367 | 570 | 754 | 802 | \$592 | \$1,332 | \$3,025 | \$3,578 | \$217 | \$759 | \$2,281 | \$2,869 |
| <i>Age</i> | | | | | | | | | | | | | | | | |
| 65–66 years | 2.8 | 3.3 | 4.0 | 4.0 | 300 | 533 | 700 | 753 | 496 | 1,075 | 2,214 | 2,463 | 149 | 573 | 1,550 | 1,854 |
| 67–68 years | 2.6 | 3.2 | 3.7 | 3.9 | 326 | 511 | 667 | 721 | 521 | 1,173 | 2,536 | 2,995 | 170 | 599 | 1,691 | 2,160 |
| 69–70 years | 2.4 | 2.9 | 3.4 | 3.7 | 339 | 531 | 705 | 741 | 530 | 1,211 | 2,700 | 3,131 | 180 | 643 | 1,902 | 2,322 |
| 71–72 years | 2.3 | 2.6 | 3.1 | 3.2 | 351 | 555 | 740 | 788 | 560 | 1,228 | 2,904 | 3,393 | 197 | 681 | 2,150 | 2,673 |
| 73–74 years | 2.1 | 2.3 | 2.9 | 2.9 | 369 | 576 | 762 | 808 | 574 | 1,319 | 3,048 | 3,595 | 212 | 759 | 2,322 | 2,906 |
| 75–79 years | 3.9 | 4.5 | 5.7 | 6.1 | 398 | 597 | 787 | 838 | 624 | 1,430 | 3,312 | 3,924 | 248 | 853 | 2,608 | 3,287 |
| 80–84 years | 2.2 | 3.0 | 3.7 | 4.0 | 430 | 623 | 828 | 869 | 693 | 1,549 | 3,496 | 4,222 | 298 | 965 | 2,894 | 3,668 |
| 85 years and over | 1.3 | 2.1 | 3.0 | 3.3 | 465 | 652 | 841 | 883 | 740 | 1,636 | 3,708 | 4,486 | 345 | 1,068 | 3,119 | 3,962 |
| <i>Sex</i> | | | | | | | | | | | | | | | | |
| Male | 8.3 | 9.6 | 11.8 | 12.4 | 357 | 546 | 712 | 759 | 647 | 1,505 | 3,432 | 4,018 | 231 | 821 | 2,443 | 3,049 |
| Female | 11.3 | 14.2 | 17.6 | 18.5 | 373 | 586 | 782 | 830 | 554 | 1,223 | 2,778 | 3,309 | 207 | 717 | 2,173 | 2,747 |
| <i>Race⁴</i> | | | | | | | | | | | | | | | | |
| White | 17.4 | 21.1 | 25.7 | 26.9 | 375 | 576 | 760 | 810 | 593 | 1,328 | 2,993 | 3,530 | 222 | 765 | 2,275 | 2,857 |
| Other | 1.5 | 2.1 | 2.8 | 3.1 | 260 | 514 | 699 | 738 | 557 | 1,404 | 3,403 | 4,090 | 145 | 722 | 2,379 | 3,019 |
| <i>Geographic region⁵</i> | | | | | | | | | | | | | | | | |
| Northeast | 5.1 | 5.7 | 6.6 | 6.8 | 385 | 613 | 793 | 833 | 604 | 1,426 | 3,171 | 3,842 | 233 | 874 | 2,513 | 3,201 |
| Midwest | 5.6 | 6.3 | 7.4 | 7.6 | 352 | 541 | 756 | 823 | 599 | 1,401 | 2,969 | 3,445 | 211 | 757 | 2,246 | 2,834 |
| South | 5.6 | 7.5 | 9.6 | 10.3 | 351 | 556 | 768 | 831 | 528 | 1,198 | 2,893 | 3,485 | 186 | 666 | 2,221 | 2,894 |
| West | 2.9 | 3.8 | 5.2 | 5.6 | 455 | 632 | 726 | 730 | 620 | 1,341 | 3,222 | 3,694 | 282 | 848 | 2,339 | 2,695 |

¹Includes fee-for-service and Health Maintenance Organization (HMO) enrollees and is as of July 1 each year.

²Excludes HMO enrollees.

³Excludes amounts for HMO services.

⁴Excludes persons of unknown race.

⁵Includes the resident population of the United States but not residence unknown.

NOTE: Table includes Medicare data for residents of the United States, Puerto Rico, Virgin Islands, Guam, other outlying areas, foreign countries, and unknown residence.

SOURCE: Bureau of Data Management and Strategy, Health Care Financing Administration: Unpublished data.

Table 140. Hospital utilization and benefit payments for aged and disabled Medicare enrollees in nonfederal short-stay hospitals, according to geographic division: United States, 1980, 1985, and 1990

[Data are compiled by the Health Care Financing Administration]

| Geographic division | Discharges | | | Days of care | | | Average length of stay | | |
|--------------------------------------|---|-------|---------|---------------------|---------|---------|---------------------------------------|-------|---------|
| | 1980 | 1985 | 1990 | 1980 | 1985 | 1990 | 1980 | 1985 | 1990 |
| | Number per 1,000 hospital insurance enrollees | | | | | | Number of days per hospital discharge | | |
| United States ¹ | 372 | 347 | 313 | 4,016 | 2,835 | 2,783 | 10.8 | 8.2 | 8.9 |
| New England | 333 | 312 | 296 | 4,130 | 3,125 | 3,037 | 12.4 | 10.0 | 10.3 |
| Middle Atlantic | 329 | 421 | 322 | 4,528 | 3,569 | 3,721 | 13.8 | 8.5 | 11.6 |
| East North Central | 373 | 325 | 324 | 4,243 | 2,791 | 2,804 | 11.4 | 8.6 | 8.7 |
| West North Central | 426 | 355 | 319 | 4,371 | 2,745 | 2,505 | 10.3 | 7.7 | 7.8 |
| South Atlantic | 372 | 314 | 300 | 3,880 | 2,655 | 2,669 | 10.4 | 8.5 | 8.9 |
| East South Central | 436 | 415 | 385 | 4,260 | 3,311 | 3,170 | 9.8 | 8.0 | 8.2 |
| West South Central | 433 | 374 | 351 | 4,025 | 2,792 | 2,840 | 9.3 | 7.5 | 8.1 |
| Mountain | 360 | 312 | 277 | 3,243 | 2,195 | 1,943 | 9.0 | 7.0 | 7.0 |
| Pacific | 338 | 293 | 259 | 2,988 | 2,111 | 1,881 | 8.8 | 7.2 | 7.3 |
| <i>Benefit payments²</i> | | | | | | | | | |
| Geographic division | Average total charges ³ | | | Hospital insurance | | | Supplementary medical insurance | | |
| | 1980 | 1985 | 1990 | 1980 | 1985 | 1990 | 1980 | 1985 | 1990 |
| | Amount per inpatient day | | | Amount per enrollee | | | | | |
| United States ¹ | \$296 | \$623 | \$1,072 | \$909 | \$1,585 | \$1,989 | \$390 | \$770 | \$1,276 |
| New England | 295 | 559 | 931 | 978 | 1,661 | 2,085 | 402 | 769 | 1,224 |
| Middle Atlantic | 304 | 559 | 902 | 965 | 1,792 | 2,275 | 428 | 893 | 1,475 |
| East North Central | 298 | 623 | 1,060 | 1,008 | 1,603 | 1,999 | 370 | 706 | 1,220 |
| West North Central | 246 | 580 | 1,019 | 888 | 1,476 | 1,715 | 304 | 643 | 953 |
| South Atlantic | 277 | 613 | 1,065 | 818 | 1,486 | 1,845 | 384 | 771 | 1,326 |
| East South Central | 249 | 561 | 991 | 754 | 1,413 | 2,046 | 281 | 544 | 1,096 |
| West South Central | 259 | 599 | 1,106 | 798 | 1,488 | 2,011 | 352 | 653 | 1,302 |
| Mountain | 310 | 706 | 1,295 | 782 | 1,309 | 1,710 | 368 | 667 | 1,145 |
| Pacific | 424 | 907 | 1,623 | 1,003 | 1,713 | 2,002 | 509 | 1,008 | 1,365 |

¹Includes residence unknown.

²Benefit payments represent cash-flow disbursements from the Medicare Hospital Insurance and Supplementary Medical Insurance Trust Funds for all types of covered services and include retroactive adjustments for nonbilling reimbursement such as capital, direct medical education, kidney acquisitions, and bad debts by Medicare patients; indirect medical education; lump sum interim payments; and audited fiscal year cost adjustments. Approximately 90 percent of total benefit payments are for short-stay hospital services.

³Includes charges for Medicare covered and noncovered services and days.

SOURCE: Bureau of Data Management and Strategy, Health Care Financing Administration: Unpublished data.

Table 141. Medicaid recipients and medical vendor payments, according to basis of eligibility: United States, selected fiscal years 1972–91

[Data are compiled by the Health Care Financing Administration]

| Basis of eligibility | 1972 | 1975 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 |
|--|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| Recipients | | | | | | | | | | |
| All recipients | 17.6 | 22.0 | 21.6 | 21.8 | 22.5 | 23.1 | 22.9 | 23.5 | 25.3 | 28.3 |
| Aged (65 years and over) | 18.8 | 16.4 | 15.9 | 14.0 | 13.9 | 14.1 | 13.8 | 13.3 | 12.7 | 11.9 |
| Blind and disabled | 9.8 | 11.2 | 13.5 | 13.8 | 14.2 | 14.6 | 15.2 | 15.3 | 14.7 | 14.4 |
| Adults in AFDC ² families | 17.8 | 20.6 | 22.6 | 25.3 | 25.1 | 24.2 | 24.0 | 24.3 | 23.8 | 24.0 |
| Children in AFDC ² families | 44.5 | 43.6 | 43.2 | 44.7 | 44.4 | 44.0 | 43.8 | 43.9 | 44.4 | 46.1 |
| Other Title XIX ³ | 9.0 | 8.2 | 6.9 | 5.6 | 6.0 | 6.1 | 5.9 | 5.0 | 3.9 | 3.3 |
| Vendor payments | | | | | | | | | | |
| All payments | \$6.3 | \$12.2 | \$23.3 | \$37.5 | \$41.0 | \$45.0 | \$48.7 | \$54.5 | \$64.9 | \$77.0 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Aged (65 years and over) | 30.6 | 35.6 | 37.5 | 37.6 | 36.8 | 35.6 | 35.2 | 34.1 | 33.2 | 33.1 |
| Blind and disabled | 22.2 | 25.7 | 32.7 | 35.9 | 36.4 | 37.3 | 38.2 | 38.3 | 37.6 | 36.7 |
| Adults in AFDC ² families | 15.3 | 16.8 | 13.9 | 12.7 | 11.9 | 12.4 | 12.1 | 12.7 | 13.2 | 13.5 |
| Children in AFDC ² families | 18.1 | 17.9 | 13.4 | 11.8 | 12.5 | 12.2 | 12.0 | 12.6 | 14.0 | 15.1 |
| Other Title XIX ³ | 13.9 | 4.0 | 2.6 | 2.1 | 2.4 | 2.4 | 2.5 | 2.1 | 1.6 | 1.3 |
| Vendor payments per recipient | | | | | | | | | | |
| All recipients | \$358 | \$556 | \$1,079 | \$1,719 | \$1,821 | \$1,949 | \$2,126 | \$2,318 | \$2,568 | \$2,725 |
| Aged (65 years and over) | 580 | 1,206 | 2,540 | 4,605 | 4,808 | 4,974 | 5,426 | 5,926 | 6,717 | 7,577 |
| Blind and disabled | 807 | 1,276 | 2,618 | 4,459 | 4,686 | 4,974 | 5,332 | 5,817 | 6,564 | 6,979 |
| Adults in AFDC ² families | 307 | 455 | 662 | 860 | 864 | 999 | 1,069 | 1,206 | 1,429 | 1,540 |
| Children in AFDC ² families | 145 | 228 | 335 | 452 | 512 | 542 | 583 | 668 | 811 | 892 |
| Other Title XIX ³ | 555 | 273 | 398 | 657 | 720 | 763 | 892 | 967 | 1,062 | 1,096 |

¹Recipients included in more than one category for 1980–89. From 1988 to 1991 between 0.2 and 0.5 percent of recipients have unknown basis of eligibility.

²Aid to Families with Dependent Children.

³Includes some participants in Supplemental Security Income program and other people deemed medically needy in participating States.

NOTES: 1972 and 1975 data are for fiscal year ending June 30. All other years are for fiscal year ending September 30.

SOURCE: Bureau of Data Management and Strategy, Health Care Financing Administration: Unpublished data.

Table 142 (page 1 of 2). Medicaid recipients and medical vendor payments, according to type of service: United States, selected fiscal years 1972–91

[Data are compiled by the Health Care Financing Administration]

| Type of service | 1972 | 1975 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 |
|--|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Recipients | Number in millions | | | | | | | | | |
| All recipients | 17.6 | 22.0 | 21.6 | 21.8 | 22.5 | 23.1 | 22.9 | 23.5 | 25.3 | 28.3 |
| Inpatient: | Percent of recipients | | | | | | | | | |
| General hospitals | 16.1 | 15.6 | 17.0 | 15.7 | 15.7 | 16.3 | 16.7 | 17.7 | 18.2 | 17.9 |
| Mental hospitals | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.3 | 0.4 | 0.4 | 0.2 |
| Mentally retarded intermediate care facilities | --- | 0.3 | 0.6 | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 |
| Nursing facilities | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5.3 |
| Skilled | 3.1 | 2.9 | 2.8 | 2.5 | 2.5 | 2.5 | 2.5 | 2.4 | 2.4 | --- |
| Intermediate care | --- | 3.1 | 3.7 | 3.8 | 3.7 | 3.7 | 3.8 | 3.8 | 3.4 | --- |
| Physician | 69.8 | 69.1 | 63.7 | 66.0 | 66.2 | 66.5 | 66.6 | 66.7 | 67.6 | 68.3 |
| Dental | 13.6 | 17.9 | 21.5 | 21.4 | 22.9 | 22.2 | 22.1 | 17.9 | 18.0 | 18.4 |
| Other practitioner | 9.1 | 12.1 | 15.0 | 15.4 | 15.3 | 15.3 | 15.2 | 15.1 | 15.3 | 15.1 |
| Outpatient hospital | 29.6 | 33.8 | 44.9 | 46.2 | 47.5 | 47.5 | 46.0 | 48.3 | 49.0 | 50.0 |
| Clinic | 2.8 | 4.9 | 7.1 | 9.7 | 9.0 | 9.4 | 9.8 | 10.2 | 11.1 | 12.4 |
| Laboratory and radiological | 20.0 | 21.5 | 14.9 | 29.1 | 31.6 | 32.9 | 33.1 | 33.0 | 35.5 | 37.1 |
| Home health | 0.6 | 1.6 | 1.8 | 2.5 | 2.6 | 2.6 | 2.5 | 2.6 | 2.8 | 2.9 |
| Prescribed drugs | 63.3 | 64.3 | 63.4 | 63.8 | 65.3 | 65.3 | 66.9 | 67.7 | 68.5 | 69.3 |
| Family planning | --- | 5.5 | 5.2 | 7.5 | 7.7 | 7.1 | 6.7 | 6.7 | 6.9 | 7.7 |
| Early and periodic screening | --- | --- | --- | 8.7 | 9.5 | 9.7 | 10.0 | 10.7 | 11.7 | 14.0 |
| Rural health clinic | --- | --- | --- | 0.4 | 0.5 | 0.6 | 0.6 | 0.7 | 0.9 | 1.4 |
| Other care | 14.4 | 13.2 | 11.9 | 15.5 | 14.7 | 15.6 | 18.2 | 19.5 | 20.3 | 21.1 |
| Vendor payments | Amount in billions | | | | | | | | | |
| All payments | \$6.3 | \$12.2 | \$23.3 | \$37.5 | \$41.0 | \$45.0 | \$48.7 | \$54.5 | \$64.9 | \$77.0 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Inpatient: | Percent distribution | | | | | | | | | |
| General hospitals | 40.6 | 27.6 | 27.5 | 25.2 | 25.3 | 25.1 | 24.8 | 24.5 | 25.7 | 25.8 |
| Mental hospitals | 1.8 | 3.3 | 3.3 | 3.2 | 2.7 | 3.1 | 2.8 | 2.7 | 2.6 | 2.6 |
| Mentally retarded intermediate care facilities | --- | 3.1 | 8.5 | 12.6 | 12.4 | 12.4 | 12.4 | 12.2 | 11.3 | 10.0 |
| Nursing facilities | --- | --- | --- | --- | --- | --- | --- | --- | --- | 26.9 |
| Skilled | 23.3 | 19.9 | 15.8 | 13.5 | 13.8 | 13.2 | 13.0 | 12.2 | 12.4 | --- |
| Intermediate care | --- | 15.4 | 18.0 | 17.4 | 16.5 | 16.2 | 16.3 | 16.3 | 14.9 | --- |
| Physician | 12.6 | 10.0 | 8.0 | 6.3 | 6.2 | 6.2 | 6.1 | 6.3 | 6.2 | 6.4 |
| Dental | 2.7 | 2.8 | 2.0 | 1.2 | 1.3 | 1.2 | 1.2 | 0.9 | 0.9 | 0.9 |
| Other practitioner | 0.9 | 1.0 | 0.8 | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Outpatient hospital | 5.8 | 3.0 | 4.7 | 4.8 | 4.8 | 4.9 | 5.0 | 5.2 | 5.1 | 5.6 |
| Clinic | 0.7 | 3.2 | 1.4 | 1.9 | 2.0 | 2.1 | 2.3 | 2.3 | 2.6 | 2.9 |
| Laboratory and radiological | 1.3 | 1.0 | 0.5 | 0.9 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.2 |
| Home health | 0.4 | 0.6 | 1.4 | 3.0 | 3.3 | 3.8 | 4.1 | 4.7 | 5.2 | 5.3 |
| Prescribed drugs | 8.1 | 6.7 | 5.7 | 6.2 | 6.6 | 6.6 | 6.8 | 6.8 | 6.8 | 7.0 |
| Family planning | --- | 0.5 | 0.3 | 0.5 | 0.6 | 0.5 | 0.4 | 0.4 | 0.4 | 0.5 |
| Early and periodic screening | --- | --- | --- | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 |
| Rural health clinic | --- | --- | --- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| Other care | 1.8 | 1.9 | 1.9 | 2.5 | 2.7 | 2.7 | 2.9 | 3.5 | 3.7 | 3.9 |

See footnotes at end of table.

Table 142 (page 2 of 2). Medicaid recipients and medical vendor payments, according to type of service: United States, selected fiscal years 1972–91

[Data are compiled by the Health Care Financing Administration]

| Type of service | 1972 | 1975 | 1980 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 |
|--|-------|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| Amount | | | | | | | | | | |
| Vendor payments per recipient | | | | | | | | | | |
| Total payment per recipient | \$358 | \$556 | \$1,079 | \$1,719 | \$1,821 | \$1,949 | \$2,126 | \$2,318 | \$2,568 | \$2,725 |
| Inpatient: | | | | | | | | | | |
| General hospitals | 903 | 983 | 1,742 | 2,753 | 2,924 | 3,000 | 3,151 | 3,208 | 3,630 | 3,922 |
| Mental hospitals | 2,825 | 6,045 | 11,742 | 19,867 | 21,000 | 24,719 | 22,917 | 16,397 | 18,548 | 30,948 |
| Mentally retarded intermediate care facilities | --- | 5,507 | 16,438 | 32,102 | 34,979 | 37,523 | 41,531 | 44,999 | 50,048 | 52,750 |
| Nursing facilities | --- | --- | --- | --- | --- | --- | --- | --- | --- | 13,811 |
| Skilled | 2,665 | 3,863 | 6,081 | 9,274 | 9,912 | 10,432 | 10,974 | 11,809 | 13,356 | --- |
| Intermediate care | --- | 2,764 | 5,326 | 7,882 | 8,180 | 8,575 | 9,149 | 9,994 | 11,236 | --- |
| Physician | 65 | 81 | 136 | 163 | 171 | 181 | 193 | 217 | 235 | 256 |
| Dental | 71 | 86 | 99 | 98 | 103 | 105 | 114 | 118 | 130 | 136 |
| Other practitioner | 37 | 48 | 61 | 75 | 73 | 74 | 82 | 89 | 96 | 102 |
| Outpatient hospital | 70 | 50 | 113 | 178 | 185 | 203 | 229 | 250 | 269 | 303 |
| Clinic | 82 | 358 | 209 | 337 | 398 | 441 | 490 | 523 | 602 | 629 |
| Laboratory and radiological | 23 | 27 | 38 | 53 | 60 | 63 | 72 | 76 | 80 | 85 |
| Home health | 229 | 204 | 847 | 2,093 | 2,280 | 2,775 | 3,541 | 4,225 | 4,733 | 5,048 |
| Prescribed drugs | 46 | 58 | 96 | 166 | 183 | 198 | 215 | 232 | 256 | 277 |
| Family planning | --- | 55 | 72 | 119 | 130 | 138 | 135 | 145 | 151 | 164 |
| Early and periodic screening | --- | --- | --- | 45 | 48 | 51 | 54 | 58 | 67 | 81 |
| Rural health clinic | --- | --- | --- | 81 | 93 | 101 | 107 | 133 | 154 | 154 |
| Other care | 44 | 80 | 172 | 274 | 331 | 340 | 343 | 418 | 465 | 503 |

NOTES: 1972 and 1975 data are for fiscal year ending June 30. All other years are for fiscal year ending September 30.

SOURCE: Bureau of Data Management and Strategy, Health Care Financing Administration: Unpublished data.

Table 143. Department of Veterans Affairs health care expenditures and use, and persons treated according to selected characteristics: United States, selected fiscal years 1965–91

[Data are compiled by Department of Veterans Affairs]

| | 1965 ¹ | 1970 ¹ | 1975 ¹ | 1980 | 1985 | 1988 | 1989 | 1990 | 1991 |
|--|-------------------|-------------------|-------------------|---------|---------|----------|----------|----------|----------|
| Health care expenditures | | | | | | | | | |
| All expenditures ² | \$1,150 | \$1,689 | \$3,328 | \$5,981 | \$8,936 | \$10,230 | \$10,949 | \$11,500 | \$12,400 |
| Amount in millions | | | | | | | | | |
| Percent distribution | | | | | | | | | |
| All services. | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Inpatient hospital | 81.9 | 71.3 | 66.4 | 64.3 | 60.3 | 53.9 | 54.1 | 57.5 | 56.9 |
| Outpatient care. | 12.0 | 14.0 | 17.8 | 19.1 | 18.9 | 22.6 | 23.8 | 25.3 | 25.8 |
| Department of Veterans Affairs nursing homes and domiciliaries | 2.9 | 4.3 | 4.8 | 5.1 | 5.4 | 6.5 | 6.7 | 7.1 | 7.7 |
| Community nursing homes | 0.0 | 1.2 | 1.4 | 2.0 | 3.0 | 3.5 | 2.6 | 2.4 | 2.3 |
| All other ³ | 3.2 | 9.1 | 9.6 | 9.6 | 12.4 | 13.4 | 13.3 | 7.7 | 7.3 |
| Health care use | | | | | | | | | |
| Number in thousands | | | | | | | | | |
| Inpatient hospital stays ⁴ | 731 | 787 | 1,114 | 1,248 | 1,306 | 1,086 | 1,028 | 1,029 | 984 |
| Outpatient visits | 5,987 | 7,312 | 14,630 | 17,971 | 19,601 | 23,232 | 22,643 | 22,602 | 23,035 |
| Department of Veterans Affairs nursing homes and domiciliary stays | 32 | 32 | 29 | 28 | 34 | 44 | 44 | 46 | 48 |
| Community nursing home stays. | 0 | 15 | 22 | 29 | 39 | 42 | 32 | 29 | 29 |
| Inpatients ⁵ | | | | | | | | | |
| Number in thousands | | | | | | | | | |
| Total | --- | --- | --- | --- | --- | 650 | 617 | 598 | 574 |
| Percent distribution | | | | | | | | | |
| Total | --- | --- | --- | --- | --- | 100.0 | 100.0 | 100.0 | 100.0 |
| Veterans with service connected disability | --- | --- | --- | --- | --- | 36.9 | 38.2 | 38.9 | 39.1 |
| Veterans without service connected disability. | --- | --- | --- | --- | --- | 62.2 | 61.1 | 60.3 | 60.0 |
| Low income | --- | --- | --- | --- | --- | 51.9 | 53.9 | 54.8 | 55.4 |
| Exempt ⁶ | --- | --- | --- | --- | --- | 2.8 | 2.5 | 2.5 | 2.7 |
| Other ⁷ | --- | --- | --- | --- | --- | 5.6 | 4.2 | 2.8 | 1.8 |
| Unknown | --- | --- | --- | --- | --- | 1.9 | 0.5 | 0.2 | 0.1 |
| Non-veterans | --- | --- | --- | --- | --- | 0.8 | 0.8 | 0.8 | 0.9 |
| Outpatients ⁵ | | | | | | | | | |
| Number in thousands | | | | | | | | | |
| Total | --- | --- | --- | --- | --- | 2,763 | 2,597 | 2,564 | 2,557 |
| Percent distribution | | | | | | | | | |
| Total | --- | --- | --- | --- | --- | 100.0 | 100.0 | 100.0 | 100.0 |
| Veterans with service connected disability | --- | --- | --- | --- | --- | 34.5 | 37.6 | 38.3 | 38.5 |
| Veterans without service connected disability. | --- | --- | --- | --- | --- | 48.4 | 50.3 | 49.8 | 50.1 |
| Low income | --- | --- | --- | --- | --- | 34.5 | 39.9 | 41.1 | 42.1 |
| Exempt ⁶ | --- | --- | --- | --- | --- | 2.7 | 2.8 | 2.9 | 2.9 |
| Other ⁷ | --- | --- | --- | --- | --- | 5.7 | 5.2 | 3.6 | 2.6 |
| Unknown | --- | --- | --- | --- | --- | 5.5 | 2.4 | 2.2 | 2.4 |
| Non-veterans | --- | --- | --- | --- | --- | 17.0 | 12.0 | 11.8 | 11.4 |

¹Data for fiscal year ending June 30; all other data for fiscal year ending September 30.

²Health care expenditures exclude construction, medical administration, and miscellaneous operating expenses.

³Includes miscellaneous benefits and services, contract hospitals, education and training, subsidies to State veterans hospitals, nursing homes, and domiciliaries, and the Civilian Health and Medical Program of the Department of Veterans Affairs.

⁴One-day dialysis patients were included in fiscal years 1975, 1980, and 1985. Interfacility transfers were included beginning in fiscal year 1990.

⁵Individuals.

⁶Prisoner of war, exposed to agent orange, etc.

⁷Financial means tested veterans who receive medical care subject to copayments according to income level.

NOTES: The veteran population was estimated at 26.6 million in 1991 with 29 percent age 65 or over compared with 11 percent in 1980. Thirty-two percent had served prior to and during World War II, 15 percent during the Korean conflict, 29 percent during the Vietnam era, 1 percent during the Persian Gulf War, and 23 percent during peacetime.

SOURCE: Office of Policy and Planning and the Office of Finance and Information Resources Management, Department of Veterans Affairs: Unpublished data.

Table 144. Mental health expenditures, percent distribution, and per capita expenditures, according to type of mental health organization: United States, selected years 1969–88

[Data are based on inventories of mental health organizations]

| Type of organization | 1969 | 1975 | 1979 | 1983 | 1986 | 1988 |
|--|---------|---------|---------|----------|----------|----------|
| Amount in millions | | | | | | |
| All organizations | \$3,293 | \$6,564 | \$8,764 | \$14,432 | \$18,458 | \$23,028 |
| State and county mental hospitals | 1,814 | 3,185 | 3,757 | 5,491 | 6,326 | 6,978 |
| Private psychiatric hospitals | 220 | 467 | 743 | 1,712 | 2,629 | 4,588 |
| Nonfederal general hospitals with separate psychiatric services | 298 | 621 | 723 | 2,176 | 2,878 | 3,610 |
| Veterans Administration medical centers ¹ | 450 | 699 | 848 | 1,316 | 1,838 | 1,290 |
| Federally funded community mental health centers | 143 | 776 | 1,481 | — | — | — |
| Residential treatment centers for emotionally disturbed children | 123 | 279 | 436 | 573 | 978 | 1,305 |
| Freestanding psychiatric outpatient clinics | 186 | 422 | 589 | 430 | 518 | 657 |
| All other organizations ² | 59 | 116 | 187 | 2,734 | 3,792 | 4,600 |
| Percent distribution | | | | | | |
| All organizations | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| State and county mental hospitals | 55.1 | 48.5 | 42.9 | 38.0 | 34.4 | 30.3 |
| Private psychiatric hospitals | 6.7 | 7.1 | 8.5 | 11.9 | 14.2 | 19.9 |
| Nonfederal general hospitals with separate psychiatric services | 9.0 | 9.5 | 8.2 | 15.1 | 15.6 | 15.7 |
| Veterans Administration medical centers ¹ | 13.7 | 10.6 | 9.7 | 9.1 | 7.2 | 5.6 |
| Federally funded community mental health centers | 4.4 | 11.8 | 16.9 | — | — | — |
| Residential treatment centers for emotionally disturbed children | 3.7 | 4.3 | 5.0 | 4.0 | 5.3 | 5.7 |
| Freestanding psychiatric outpatient clinics | 5.6 | 6.4 | 6.7 | 3.0 | 2.8 | 2.8 |
| All other organizations ² | 1.8 | 1.8 | 2.1 | 18.9 | 20.5 | 20.0 |
| Amount per capita ³ | | | | | | |
| All organizations | \$17 | \$31 | \$40 | \$62 | \$77 | \$95 |
| State and county mental hospitals | 9 | 15 | 17 | 24 | 26 | 29 |
| Private psychiatric hospitals | 1 | 2 | 3 | 7 | 11 | 19 |
| Nonfederal general hospitals with separate psychiatric services | 2 | 3 | 3 | 9 | 12 | 15 |
| Veterans Administration medical centers ¹ | 2 | 3 | 4 | 6 | 6 | 5 |
| Federally funded community mental health centers | 1 | 4 | 7 | — | — | — |
| Residential treatment centers for emotionally disturbed children | 1 | 1 | 2 | 2 | 4 | 5 |
| Freestanding psychiatric outpatient clinics | 1 | 2 | 3 | 2 | 2 | 3 |
| All other organizations ² | 0 | 1 | 1 | 12 | 16 | 19 |

¹Includes Veterans Administration neuropsychiatric hospitals, general hospital psychiatric services, and psychiatric outpatient clinics.

²Includes freestanding psychiatric partial care organizations and multiservice mental health organizations. Multiservice mental health organizations were redefined in 1983; see Appendix I.

³Civilian population.

NOTES: Changes in reporting procedures in 1983 affect the comparability of data with those from previous years. Mental health expenditures include salaries, other operating expenditures, and capital expenditures.

SOURCES: Survey and Reports Branch, Division of Applied and Services Research, National Institute of Mental Health: R. W. Manderscheid and S. A. Barrett: Mental Health, United States, 1987. DHHS Pub. No. (ADM) 87-1518. U.S. Government Printing Office, 1987; Unpublished data.

Table 145. State mental health agency per capita expenditures for mental health services, and average annual percent change, according to State: United States, selected fiscal years 1981–90

[Data are based on reporting by State mental health agencies]

| State | 1981 | 1983 | 1985 | 1987 | 1990 | Average annual percent change 1981–90 |
|---|------|------|------|------|------|---|
| | | | | | | Amount per capita |
| United States..... | \$27 | \$31 | \$35 | \$38 | \$48 | 6.7 |
| Alabama..... | 20 | 24 | 28 | 29 | 38 | 7.4 |
| Alaska..... | 38 | 41 | 45 | 50 | 72 | 7.4 |
| Arizona..... | 10 | 10 | 12 | 16 | 27 | 11.7 |
| Arkansas..... | 17 | 20 | 24 | 23 | 26 | 5.0 |
| California..... | 28 | 29 | 34 | 30 | 42 | 4.4 |
| Colorado..... | 24 | 25 | 28 | 30 | 34 | 4.0 |
| Connecticut..... | 32 | 39 | 44 | 56 | 73 | 9.7 |
| Delaware..... | 44 | 51 | 46 | 41 | 55 | 2.4 |
| District of Columbia ² | — | 23 | 28 | 130 | 268 | — |
| Florida..... | 20 | 23 | 26 | 25 | 37 | 7.1 |
| Georgia..... | 25 | 26 | 23 | 32 | 51 | 8.2 |
| Hawaii..... | 19 | 22 | 23 | 26 | 38 | 8.1 |
| Idaho..... | 13 | 15 | 15 | 17 | 20 | 4.6 |
| Illinois..... | 18 | 21 | 24 | 25 | 34 | 7.4 |
| Indiana..... | 19 | 23 | 27 | 31 | 47 | 10.7 |
| Iowa..... | 8 | 10 | 11 | 12 | 17 | 8.9 |
| Kansas..... | 17 | 22 | 27 | 28 | 35 | 8.0 |
| Kentucky..... | 15 | 17 | 19 | 23 | 23 | 5.0 |
| Louisiana..... | 19 | 23 | 26 | 25 | 28 | 4.5 |
| Maine..... | 25 | 32 | 36 | 42 | 67 | 11.5 |
| Maryland..... | 33 | 37 | 40 | 49 | 61 | 7.1 |
| Massachusetts..... | 32 | 36 | 46 | 62 | 84 | 11.4 |
| Michigan..... | 32 | 39 | 49 | 61 | 74 | 9.6 |
| Minnesota ³ | 17 | 30 | 32 | 42 | 54 | — |
| Mississippi..... | 14 | 16 | 24 | 22 | 34 | 10.6 |
| Missouri..... | 24 | 25 | 28 | 31 | 35 | 4.5 |
| Montana..... | 24 | 28 | 29 | 28 | 28 | 1.5 |
| Nebraska..... | 16 | 19 | 21 | 21 | 29 | 6.5 |
| Nevada..... | 22 | 25 | 26 | 28 | 33 | 4.7 |
| New Hampshire..... | 35 | 39 | 42 | 36 | 63 | 6.9 |
| New Jersey..... | 26 | 31 | 36 | 43 | 57 | 9.0 |
| New Mexico..... | 24 | 25 | 25 | 24 | 23 | -0.3 |
| New York..... | 67 | 74 | 90 | 99 | 118 | 6.5 |
| North Carolina..... | 24 | 29 | 38 | 41 | 46 | 7.6 |
| North Dakota..... | 38 | 42 | 36 | 42 | 40 | 0.4 |
| Ohio..... | 25 | 28 | 30 | 33 | 41 | 5.8 |
| Oklahoma..... | 22 | 33 | 31 | 30 | 36 | 5.6 |
| Oregon..... | 20 | 21 | 25 | 28 | 41 | 8.0 |
| Pennsylvania..... | 41 | 47 | 52 | 50 | 57 | 3.9 |
| Rhode Island..... | 36 | 32 | 35 | 41 | 50 | 3.7 |
| South Carolina..... | 31 | 33 | 33 | 45 | 51 | 5.8 |
| South Dakota..... | 17 | 21 | 22 | 27 | 25 | 4.3 |
| Tennessee..... | 18 | 20 | 23 | 24 | 29 | 5.6 |
| Texas..... | 13 | 16 | 17 | 18 | 23 | 6.5 |
| Utah..... | 13 | 16 | 17 | 19 | 21 | 5.2 |
| Vermont..... | 32 | 40 | 44 | 44 | 54 | 5.9 |
| Virginia..... | 23 | 29 | 32 | 35 | 45 | 7.9 |
| Washington..... | 18 | 24 | 30 | 37 | 43 | 10.3 |
| West Virginia..... | 20 | 20 | 22 | 23 | 24 | 2.3 |
| Wisconsin..... | 22 | 27 | 28 | 31 | 37 | 5.7 |
| Wyoming..... | 23 | 28 | 31 | 30 | 35 | 4.7 |

¹Puerto Rico is included in U.S. total.

²Between 1985 and 1990, St. Elizabeth's Hospital was transferred from the National Institute of Mental Health to the District of Columbia Office of Mental Health.

³Data for 1981 not comparable with 1983–90 data for Minnesota.

NOTE: Expenditures for mental illness, excluding mental retardation and substance abuse.

SOURCE: National Association of State Mental Health Program Directors and the National Association of State Mental Health Program Directors Research Institute, Inc.: Final Report: Funding Sources and Expenditures of State Mental Health Agencies: Revenue/Expenditure Study Results, Fiscal Year 1990, Nov. 1992.

Appendix Contents

I. Sources and Limitations of Data

| | |
|---|-----|
| Introduction | 196 |
| Department of Health and Human Services | |
| Public Health Service | |
| Centers for Disease Control and Prevention | |
| National Center for Health Statistics | |
| National Vital Statistics System | 196 |
| National Linked File of Live Births and Infant Deaths | 198 |
| Compressed Mortality File | 198 |
| National Survey of Family Growth | 198 |
| National Health Interview Survey | 199 |
| National Health and Nutrition Examination Survey | 200 |
| National Master Facility Inventory | 201 |
| National Hospital Discharge Survey | 202 |
| National Nursing Home Survey | 202 |
| National Ambulatory Medical Care Survey | 203 |
| National Center for Infectious Diseases | |
| AIDS Surveillance | 204 |
| Epidemiology Program Office | |
| National Notifiable Diseases Surveillance System | 204 |
| National Center for Chronic Disease Prevention and Health Promotion | |
| Abortion Surveillance | 204 |
| National Center for Prevention Services | |
| U.S. Immunization Survey | 205 |
| National Institute for Occupational Safety and Health | |
| National Traumatic Occupational Fatalities Data Base | 205 |
| National Occupational Hazard Survey | 205 |
| National Occupational Exposure Survey | 205 |
| Health Resources and Services Administration | |
| Bureau of Health Professions | |
| Physician Supply Projections | 206 |
| Nurse Supply Estimates | 206 |
| Substance Abuse and Mental Health Services Administration | |
| Office of Applied Studies | |
| National Household Surveys on Drug Abuse | 206 |
| The Drug Abuse Warning Network | 206 |
| Center for Mental Health Services | |
| Surveys of Mental Health Organizations | 207 |
| National Institutes of Health | |
| National Cancer Institute | |
| Surveillance, Epidemiology, and End Results Program | 207 |
| National Institute on Drug Abuse | |
| High School Senior Survey (Monitoring the Future Survey) | 208 |

Health Care Financing Administration

Office of the Actuary

| | |
|---|-----|
| Estimates of National Health Expenditures | 208 |
| Medicare Statistical System | 209 |
| Medicaid Data System | 209 |

Department of Commerce

Bureau of the Census

| | |
|---------------------------|-----|
| Census of Population | 209 |
| Current Population Survey | 209 |
| Population Estimates | 210 |

Department of Labor

Bureau of Labor Statistics

| | |
|--|-----|
| Annual Survey of Occupational Injuries and Illnesses | 210 |
| Consumer Price Index | 211 |
| Employment and Earnings | 211 |

Department of Veterans Affairs

| | |
|----------------------------|-----|
| The Patient Treatment File | 211 |
| The Patient Census File | 211 |
| The Outpatient Clinic File | 211 |

Environmental Protection Agency

| | |
|--|-----|
| National Aerometric Surveillance Network | 211 |
|--|-----|

United Nations

| | |
|--------------------------------|-----|
| Demographic Yearbook | 211 |
| World Health Statistics Annual | 212 |

Alan Guttmacher Institute

| | |
|-----------------|-----|
| Abortion Survey | 212 |
|-----------------|-----|

American Association of Colleges of Osteopathic Medicine

| | |
|--|-----|
| | 212 |
|--|-----|

American Dental Association

| | |
|--|-----|
| | 212 |
|--|-----|

American Hospital Association

| | |
|----------------------------|-----|
| Annual Survey of Hospitals | 212 |
|----------------------------|-----|

American Medical Association

| | |
|----------------------|-----|
| Physician Masterfile | 213 |
|----------------------|-----|

| | |
|----------------------------|-----|
| Annual Census of Hospitals | 213 |
|----------------------------|-----|

Association of American Medical Colleges

| | |
|--|-----|
| | 213 |
|--|-----|

InterStudy

| | |
|---|-----|
| National Health Maintenance Organization Census | 213 |
|---|-----|

National League for Nursing

| | |
|--|-----|
| | 214 |
|--|-----|

Public Health Foundation

| | |
|--|-----|
| Association of State and Territorial Health Officials Reporting System | 214 |
|--|-----|

II. Glossary

Alphabetical Listing of Terms

| | |
|--|-----|
| | 215 |
|--|-----|

List of Glossary Tables

- I. Standard million age distribution used to adjust death rates to the U.S. population in 1940
- II. Numbers of live births and mother's age groups used to adjust maternal mortality rates to live births in the United States in 1970
- III. Population and age groups used to adjust data to the U.S. civilian noninstitutionalized population in 1970: Selected surveys

| | |
|--|-----|
| IV. Revision of the <i>International Classification of Diseases</i> , according to year of conference by which adopted and years in use in the United States_____ | 217 |
| V. Cause-of-death codes, according to applicable revision of <i>International Classification of Diseases</i> _____ | 217 |
| VI. Codes for industries, according to the <i>Standard Industrial Classification (SIC) Manual</i> _____ | 221 |
| VII. Codes for diagnostic categories from the <i>International Classification of Diseases, Ninth Revision, Clinical Modification</i> _____ | 222 |
| VIII. Codes for surgical categories from the <i>International Classification of Diseases, Ninth Revision, Clinical Modification</i> _____ | 222 |
| IX. Codes for diagnostic and other nonsurgical procedure categories from the <i>International Classification of Diseases, Ninth Revision, Clinical Modification</i> _____ | 223 |
| X. Mental illness codes, according to applicable revision of the <i>Diagnostic and Statistical Manual of Mental Disorders and International Classification of Diseases</i> _____ | 224 |

Appendix I

Sources and Limitations of Data

Introduction

This report consolidates the most current data on the health of the population of the United States, the availability and use of health resources, and health care expenditures. The information was obtained from the data files and/or published reports of many governmental and nongovernmental agencies and organizations. In each case, the sponsoring agency or organization collected data using its own methods and procedures. Therefore, the data in this report vary considerably with respect to source, method of collection, definitions, and reference period.

Much of the data presented in the detailed tables are from the ongoing data collection systems of the National Center for Health Statistics. For an overview of these systems, see National Center for Health Statistics, M.G. Kovar: *Data systems of the National Center for Health Statistics. Vital and Health Statistics. Series 1, No. 23. DHHS Pub. No. (PHS) 89-1325. Public Health Service. Hyattsville, Md. 1989.* However, health care personnel data come primarily from the Bureau of Health Professions, Health Resources and Services Administration, and the American Medical Association. National health expenditures data were compiled by the Office of the Actuary, Health Care Financing Administration.

Although a detailed description and comprehensive evaluation of each data source is beyond the scope of this appendix, users should be aware of the general strengths and weaknesses of the different data collection systems. For example, population-based surveys obtain socioeconomic data, data on family characteristics, and information on the impact of an illness, such as days lost from work or limitation of activity. They are limited by the amount of information a respondent remembers or is willing to report. Detailed medical information, such as precise diagnoses or the types of operations performed, may not be known and so will not be reported. Conversely, health care providers, such as physicians and hospitals, usually have good diagnostic information but little or no information about the socioeconomic characteristics of individuals or the impact of illnesses on individuals.

The population covered by different data collection systems may not be the same, and understanding the differences is critical to interpreting the data. Data on vital statistics and national expenditures cover the entire population. Most data on morbidity and utilization of health resources cover only the civilian noninstitutionalized population. Thus, statistics are not included for military personnel, who are usually young; for institutionalized people, who may be any age; or for nursing home residents, who are usually old.

All data collection systems are subject to error, and records may be incomplete or contain inaccurate

information. People may not remember essential information, a question may not mean the same thing to different respondents, and some institutions or individuals may not respond at all. It is not always possible to measure the magnitude of these errors or their impact on the data. Where possible, the tables have notes describing the universe and the method of data collection to enable the user to place his or her own evaluation on the data. In many instances data do not add to totals because of rounding.

Overall estimates generally have relatively small sampling errors, but estimates for certain population subgroups may be based on small numbers and have relatively large sampling errors. Numbers of births and deaths from the vital statistics system represent complete counts (except for births in those States where data are based on a 50-percent sample for certain years). Therefore, they are not subject to sampling error. However, when the figures are used for analytical purposes, such as the comparison of rates over a time period, the number of events that actually occurred may be considered as one of a large series of possible results that could have arisen under the same circumstances. When the number of events is small and the probability of such an event is small, considerable caution must be observed in interpreting the conditions described by the figures. Estimates that are unreliable because of large sampling errors or small numbers of events have been noted with asterisks in selected tables. The criteria used to designate unreliable estimates are indicated as notes to the applicable tables.

The descriptive summaries that follow provide a general overview of study design, methods of data collection, and reliability and validity of the data. More complete and detailed discussions are found in the publications referenced at the end of each summary. The data set or source is listed under the agency or organization that sponsored the data collection.

Department of Health and Human Services

Public Health Service

Centers for Disease Control and Prevention

National Center for Health Statistics

National Vital Statistics System

Through the National Vital Statistics System, the National Center for Health Statistics (NCHS) collects and publishes data on births, deaths, marriages, and divorces in the United States. Fetal deaths are classified and tabulated separately from other deaths. The Division of Vital Statistics obtains information on births and deaths from the registration offices of all States, New York City, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, and Guam. Geographic coverage for births and deaths has been complete since 1933.

Until 1972, microfilm copies of all death certificates and a 50-percent sample of birth certificates were

received from all registration areas and processed by NCHS. Beginning in 1972, some States began sending their data to NCHS through the Cooperative Health Statistics System (CHSS). States that participated in the CHSS program processed 100 percent of their death and birth records and sent the entire data file to NCHS on computer tapes. Currently, the data are sent to NCHS through the Vital Statistics Cooperative Program (VSCP), following the same procedures as the CHSS. The number of participating States grew from 6 in 1972 to 46 in 1984. All 50 States and the District of Columbia participated in the VSCP starting in 1985.

In most areas, practically all births and deaths are registered. The most recent test of the completeness of birth registration, conducted on a sample of births from 1964 to 1968, showed that 99.3 percent of all births in the United States during that period were registered. No comparable information is available for deaths, but it is generally believed that death registration in the United States is at least as complete as birth registration.

Demographic information on the birth certificate such as race and ethnicity is provided by the mother at the time of birth. Medical and health information is based on hospital records. Demographic information on the death certificate is provided by the funeral director based on information supplied by an informant. Medical certification of cause of death is provided by a physician, medical examiner, or coroner.

U.S. Standard Live Birth and Death Certificates and Fetal Death Reports are revised periodically, allowing careful evaluation of each item and addition, modification, and deletion of items. Beginning with 1989, revised standard certificates replaced the 1978 versions. The 1989 revision of the birth certificate includes items to identify the Hispanic parentage of newborns and to expand information about maternal and infant health characteristics. The 1989 revision of the death certificate includes items on educational attainment and Hispanic origin of decedents as well as changes to improve the medical certification of cause of death. Standard certificates recommended by NCHS are modified in each registration area to serve the area's needs. However, most certificates conform closely in content and arrangement to the standard certificate, and all certificates contain a minimum data set specified by NCHS. For selected items, reporting areas expanded during the years spanned by this report. For items on the birth certificate, the number of reporting States increased for mother's education, prenatal care, marital status, and Hispanic parentage; and on the death certificate, for educational attainment and Hispanic origin of the decedent.

Mother's education was reported on the birth certificate by 38 States in 1970. Data were not available from Alabama, Arkansas, California, Connecticut, Delaware, District of Columbia, Georgia, Idaho, Maryland, New Mexico, Pennsylvania, Texas, and Washington. In 1975 these data were available from four additional States, Connecticut, Delaware, Georgia, Maryland, and the District of Columbia, increasing the number of States reporting mother's education to 42 and the District of Columbia. Between 1980 and 1988 only three States, California, Texas, and Washington did not

report mother's education. In 1988 mother's education was also missing from New York State outside of New York City. In 1989 and 1990 mother's education was missing only from Washington and New York State outside of New York City.

Prenatal care was reported on the birth certificate by 38 States and the District of Columbia in 1970. Data were not available from Alabama, Alaska, Arkansas, Colorado, Connecticut, Delaware, Georgia, Idaho, Massachusetts, New Mexico, Pennsylvania, and Virginia. In 1975 these data were available from four additional States, Colorado, Connecticut, Delaware, and Georgia, increasing the number of States reporting prenatal care to 42 and the District of Columbia. Between 1980 and 1990 prenatal care information was available for the entire United States.

In 1970 **mother's marital status** was reported on the birth certificate by 39 States and the District of Columbia, and in 1975, by 38 States and the District of Columbia. In 1970 and 1975 data were not available from California, Connecticut, Georgia, Idaho, Maryland, Massachusetts, Montana, New Mexico, New York, Ohio, and Vermont; and in 1975 also from Nevada. Between 1980 and 1990 information about mother's marital status was available for the entire United States. During this period, marital status of mother was reported on the birth certificates of 41–42 States. For the remaining eight-nine States that lacked the item, marital status was inferred from a comparison of the child's and parents' surnames.

In 1980 and 1981 information on **births of Hispanic parentage** was reported on the birth certificate by the following 22 States: Arizona, Arkansas, California, Colorado, Florida, Georgia, Hawaii, Illinois, Indiana, Kansas, Maine, Mississippi, Nebraska, Nevada, New Jersey, New Mexico, New York, North Dakota, Ohio, Texas, Utah, and Wyoming. In 1982, Tennessee, and in 1983 the District of Columbia began reporting this information. Between 1983 and 1987 information on births of Hispanic parentage was available for 23 States and the District of Columbia. In 1988 this information became available for Alabama, Connecticut, Kentucky, Massachusetts, Montana, North Carolina, and Washington, increasing the number of States reporting information on births of Hispanic parentage to 30 States and the District of Columbia. In 1989 this information became available from an additional 17 States, increasing the number of Hispanic-reporting States to 47 and the District of Columbia. In 1989 only Louisiana, New Hampshire, and Oklahoma did not report Hispanic parentage on the birth certificate. In 1990 Louisiana began reporting Hispanic parentage. In 1990 about 99 percent of the total U.S. Hispanic population resided in the Hispanic-reporting area comprised of 48 States and the District of Columbia.

Information on **educational attainment of decedents** became available for the first time in 1989 due to the revision of the U.S. Standard Certificate of Death. Mortality data by educational attainment for 1989 are based on deaths to residents of the following 21 States whose data were at least 90 percent complete: Arizona, California, Colorado, Delaware, Florida, Hawaii, Idaho, Illinois, Iowa, Kansas, Michigan, Minnesota, Missouri,

Montana, New Hampshire, Oregon, South Carolina, Utah, Vermont, Wisconsin, and Wyoming. In 1990 the reporting area encompassed 28 States and the District of Columbia with the addition of the following States: Alabama, Massachusetts, Nebraska, North Dakota, Ohio, Pennsylvania, and Texas. The reporting areas in 1989 and 1990 represent 40 and 62 percent of U.S. deaths in those years.

In 1980–84 mortality data by **Hispanic origin of decedent** were based on deaths to residents of the following 15 States whose data on the death certificate were at least 90 percent complete and of comparable format: Arizona, Colorado, Georgia, Hawaii, Illinois, Indiana, Kansas, Mississippi, Nebraska, New York, North Dakota, Ohio, Texas, Utah, and Wyoming. In 1985 Arkansas, California, and the District of Columbia, and in 1986 New Jersey, were added to the Hispanic reporting area, increasing the number of reporting States in 1985 to 17 and the District of Columbia and in 1986–87 to 18 and the District of Columbia. In 1988 Alabama, Kentucky, Maine, Montana, North Carolina, Oregon, Rhode Island, and Washington were added to the reporting area, increasing the number of States to 26 and the District of Columbia. In 1989 an additional 18 States were added, increasing the Hispanic reporting area to 44 States and the District of Columbia. In 1989 only Connecticut, Louisiana, Maryland, New Hampshire, Oklahoma, and Virginia were not included in the reporting area. In 1990 Maryland and Virginia were added to the reporting area; however, New York was excluded due to the high proportion of not stated or unknown origin from New York City. The 1990 reporting area for Hispanic origin of decedent included 45 States and the District of Columbia. Based on data from the Bureau of the Census, the 1990 reporting area encompassed an estimated 88 percent of the U.S. Hispanic population.

Provisional death rates by cause, age, race, and sex are estimated from the Current Mortality Sample. The Current Mortality Sample is a 10-percent systematic sample of death certificates received each month in the vital statistics offices in the 50 States, the District of Columbia, and the independent registration area of New York City. All death certificates received during the 1-month period are sampled regardless of the month or year in which the death occurred.

For more information, see: National Center for Health Statistics, Technical Appendix, *Vital Statistics of the United States, 1988*, Vol. I, Natality, DHHS Pub. No. (PHS) 90-1100 and Vol. II, Mortality, Part A, DHHS Pub. No. (PHS) 91-1101, Public Health Service. Washington. U.S. Government Printing Office, 1991.

National Linked File of Live Births and Infant Deaths

The national linked file of live births and infant deaths is a data file for research on infant mortality. It is comprised of linked vital records for infants born in a given year who died in that year or the next year before their first birthday. It includes all of the variables on the national natality file, as well as the medical information reported for the same infant on the death record and the age of the infant at death. The use of linked files avoids discrepancies in the reporting of race between the

birth and infant death certificates. Although discrepancies are relatively rare for white and black infants, they can be substantial for other races. The match completeness for the 1983–87 files is 98 percent. The linked files are available after the regular vital statistics files because construction of the linked file requires 2 years of mortality data to be linked to each birth cohort. For more information, see: National Center for Health Statistics, K. Prager: *Infant mortality by birthweight, age of mother, and other characteristics: United States, 1985 birth cohort. Vital and Health Statistics*. Forthcoming.

Compressed Mortality File

The Compressed Mortality File (CMF) used to compute death rates by urbanization level is a county level national mortality and population data base spanning the years 1968–90. The mortality data base of the CMF is derived from the detailed mortality files of the National Vital Statistics System comprised of approximately 2 million micro-data death records for each of the years. The population data base of the CMF is derived from intercensal estimates and census counts of the resident population of each U.S. county by 5-year age groups, race, and sex. These estimates reflect adjustments based on the 1970, 1980, and 1990 censuses. Counties are categorized according to level of urbanization based on the rural-urban continuum codes for metropolitan and nonmetropolitan counties developed by the Economic Research Service, U.S. Department of Agriculture. See Appendix II, Urbanization. For more information about the CMF, contact: Chief, Analytical Coordination Branch, Division of Analysis, National Center for Health Statistics, 6525 Belcrest Road, Hyattsville, MD 20782.

National Survey of Family Growth

Data from the National Survey of Family Growth (NSFG) are based on samples of women ages 15–44 years in the civilian noninstitutionalized population living in the coterminous United States. The first and second cycles excluded women who had never been married, except those with offspring in the household. The third and fourth cycles include all women ages 15–44 years, regardless of whether they have ever been married.

The purpose of the survey is to provide national data on the demographic and social factors associated with childbearing, adoption, and maternal and child health. These factors include sexual activity, marriage, unmarried cohabitation, divorce and remarriage, contraception and sterilization, infertility, breastfeeding, pregnancy loss, low birth weight, use of medical care for family planning, infertility, and prenatal care. Interviews are conducted in person by professional female interviewers using a standardized, printed questionnaire. The average interview length is about 1 hour.

Cycle I of the NSFG was conducted from June 1973–February 1974. The counties and independent cities of the United States were combined to form a frame of primary sampling units (PSU's), and 101 PSU's were selected as the first-stage sample. The next three stages produced a clustered sample of 28,998 households

within the 101 PSU's. At 26,028 of these households (89.8 percent), household screener interviews were completed. These screeners produced a fifth-stage sample of 10,879 women of whom 9,797 were interviewed. Never-married women (except those with offspring in the household) were excluded from Cycle I.

Cycle II of NSFG was conducted from January–September 1976. The sample consisted of 27,162 households in 79 PSU's. Household screener interviews were completed at 25,479 of these households (93.8 percent). Of the 10,202 women in the sample, 8,611 were interviewed. Again, never-married women (except those with offspring in the household) were excluded from the sample for Cycle II.

Interviewing for Cycle III of the NSFG was conducted from August 1982–February 1983. The sample design was similar to that in Cycle II: 31,027 households were selected in 79 PSU's. Household screener interviews were completed in 29,511 households (95.1 percent). Of the 9,964 eligible women identified, 7,969 were interviewed. The sample for Cycle III included black women and women 15–19 years of age at higher rates than other women. Women of all marital statuses were interviewed in Cycle III.

Cycle IV was conducted between January and August 1988. The sample was obtained from households that had been interviewed in the 1985, 1986, or 1987 National Health Interview Surveys. Women living in Alaska and Hawaii were included, so that the survey covered women from the noninstitutionalized population of the entire United States. Interviews were completed with 8,450 women. As in previous cycles, black women were oversampled.

In order to produce estimates for the entire population of eligible women in the United States, data for the interviewed sample women were inflated by the reciprocal of the probability of selection at each stage of sampling and adjusted for screener and interview nonresponse. Cycles I and II estimates for ever-married women were poststratified to benchmark population values for 12 age-race categories based on data from the Current Population Survey of the U.S. Bureau of the Census. Cycle III estimates were poststratified within 24 categories of age, race, and marital status. In Cycle IV the poststratification was done within categories of age, race, marital status, and parity.

Quality control procedures for interviewer selection, interviewer training, field listing, and data processing were built into the NSFG to minimize nonsampling error and bias. In addition, the nonresponse adjustments in the estimator were designed to minimize the effect of nonresponse bias by assigning to nonrespondents the characteristics of similar respondents. Sampling errors for NSFG were estimated by balanced half-sample replication.

Detailed information on the NSFG sample design is available in the following reports: National Center for Health Statistics, D. K. French: National Survey of Family Growth, Cycle I, sample design, estimation procedures, and variance estimation. *Vital and Health Statistics*. Series 2, No. 76. DHEW Pub. No. (PHS) 78-1350. Public Health Service. Washington. U.S. Government Printing Office, Jan. 1979; National Center

for Health Statistics, W. R. Grady: National Survey of Family Growth, Cycle II: Sample design, estimation procedures, and variance estimation. *Vital and Health Statistics*. Series 2, No. 87. DHHS Pub. No. (PHS) 81-1361. Public Health Service. Washington. U.S. Government Printing Office, Feb. 1981; National Center for Health Statistics, C. Bachrach, M. Horn, W. Mosher, and I. Shimizu: National Survey of Family Growth, Cycle III: Estimation procedures, weighting, and variance estimation. *Vital and Health Statistics*. Series 2, No. 98. DHHS Pub. No. (PHS) 85-1372. Public Health Service. Washington. U.S. Government Printing Office, Sept. 1985; and National Center for Health Statistics, D. Judkins, S. Botman, and W. Mosher: National Survey of Family Growth: Design, Estimation, and Inference. *Vital and Health Statistics*. Series 2, No. 109. DHHS Pub. No. (PHS) 91-1386. Public Health Service. Washington. U.S. Government Printing Office, Sept. 1991.

National Health Interview Survey

The National Health Interview Survey (NHIS) is a continuing nationwide sample survey in which data are collected through personal household interviews. Information is obtained on personal and demographic characteristics including race and ethnicity by self-reporting or as reported by an informant; illnesses, injuries, impairments, chronic conditions, utilization of health resources, and other health topics. The household questionnaire is reviewed each year, with special health topics being added or deleted. For most health topics, data are collected over an entire calendar year.

The sample design plan of the NHIS follows a multistage probability design that permits a continuous sampling of the civilian noninstitutionalized population residing in the United States. The survey is designed in such a way that the sample scheduled for each week is representative of the target population and the weekly samples are additive over time. The response rate for the survey has been between 95 and 98 percent over the years.

In 1985 the NHIS adopted several new sample design features although, conceptually, the sampling plan remained the same as the previous design. Two major changes included reducing the number of primary sampling locations from 376 to 198 for sampling efficiency and oversampling the black population to improve the precision of the statistics.

The sample was designed so that a typical NHIS sample for the data collection years 1985–94 will consist of approximately 7,500 segments containing about 59,000 assigned households. Of these households, an expected 10,000 will be vacant, demolished, or occupied by persons not in the target population of the survey. The expected sample of 49,000 occupied households will yield a probability sample of about 127,000 persons. In 1990 there was a sample of 119,631 persons and in 1991 a sample of 120,032 persons.

A description of the survey design, the methods used in estimation, and general qualifications of the data obtained from the survey are presented in: National Center for Health Statistics, P. F. Adams and V. Benson: Current estimates from the National Health Interview Survey, United States, 1991. *Vital and Health*

Statistics. Series 10, No. 184. DHHS Pub. No. (PHS) 93-1512. Public Health Service. Washington. U.S. Government Printing Office, Dec. 1992.

National Health and Nutrition Examination Survey

For the first program or cycle of the National Health Examination Survey (NHES I), 1960-62, data were collected on the total prevalence of certain chronic diseases as well as the distributions of various physical and physiological measures, including blood pressure and serum cholesterol levels. For that program, a highly stratified, multistage probability sample of 7,710 adults, of whom 86.5 percent were examined, was selected to represent the 111 million civilian noninstitutionalized adults 18-79 years of age in the United States at that time. The sample areas consisted of 42 primary sampling units from the 1,900 geographic units. In 1971 a nutrition surveillance component was added and the survey name was changed to the National Health and Nutrition Examination Survey.

For more information on NHES I, see: National Center for Health Statistics: Cycle I of the National Health Examination Survey, sample and response, United States, 1960-62. T. Gordon and H. W. Miller. *Vital and Health Statistics.* Series 11, No. 1. PHS Pub. No. 1000. Public Health Service. Washington. U.S. Government Printing Office, May 1964.

In the first National Health and Nutrition Examination Survey (NHANES I), conducted from 1971 through 1974, a major purpose was to measure and monitor indicators of the nutrition and health status of the American people through dietary intake data, biochemical tests, physical measurements, and clinical assessments for evidence of nutritional deficiency. Detailed examinations were given by dentists, ophthalmologists, and dermatologists with an assessment of need for treatment. In addition, data were obtained for a subsample of adults on overall health care needs and behavior, and more detailed examination data were collected on cardiovascular, respiratory, arthritic, and hearing conditions.

The NHANES I target population was the civilian noninstitutionalized population 1-74 years of age residing in the coterminous United States, except for people residing on any of the reservation lands set aside for the use of American Indians. The sample design was a multistage, stratified probability sample of clusters of persons in land-based segments. The sample areas consisted of 65 primary sampling units (PSU's) selected from the 1,900 PSU's in the coterminous United States. A subsample of persons 25-74 years of age was selected to receive the more detailed health examination. Groups at high risk of malnutrition were oversampled at known rates throughout the process.

Household interviews were completed for more than 96 percent of the 28,043 persons selected for the NHANES I sample, and about 75 percent (20,749) were examined.

For NHANES II, conducted from 1976-80, the nutrition component was expanded from the one fielded for NHANES I. In the medical area primary emphasis was placed on diabetes, kidney and liver functions, allergy, and speech pathology.

The NHANES II target population was the civilian noninstitutionalized population 6 months-74 years of age residing in the United States, including Alaska and Hawaii. NHANES II utilized a multistage probability design that involved selection of PSU's, segments (clusters of households) within PSU's, households, eligible persons, and finally, sample persons. The sample design provided for oversampling among those persons 6 months-5 years of age, those 60-74 years of age, and those living in poverty areas.

A sample of 27,801 persons was selected for NHANES II. Of this sample 20,322 (73.1 percent) were examined.

Race information for NHANES I and NHANES II was determined primarily by interviewer observation. The estimation procedure used to produce national statistics for NHANES I and NHANES II involved inflation by the reciprocal of the probability of selection, adjustment for nonresponse, and poststratified ratio adjustment to population totals. Sampling errors also were estimated to measure the reliability of the statistics.

For more information on NHANES I, see: National Center for Health Statistics, H. W. Miller: Plan and operation of the National Health and Nutrition Examination Survey, United States, 1971-73. *Vital and Health Statistics.* Series 1, Nos. 10a and 10b. DHEW Pub. No. (HSM) 73-1310. Health Services and Mental Health Administration. Washington. U.S. Government Printing Office, Feb. 1973; and National Center for Health Statistics, A. Engel, R. S. Murphy, K. Maurer, and E. Collins: Plan and operation of the NHANES I Augmentation Survey of Adults 25-74 Years, United States, 1974-75. *Vital and Health Statistics.* Series 1, No. 14. DHEW Pub. No. (PHS) 78-1314. Public Health Service. Washington. U.S. Government Printing Office, June 1978.

For more information on NHANES II, see: National Center for Health Statistics, A. McDowell, A. Engel, J. T. Massey, and K. Maurer: Plan and operation of the Second National Health and Nutrition Examination Survey, 1976-80. *Vital and Health Statistics.* Series 1, No. 15. DHHS Pub. No. (PHS) 81-1317. Public Health Service. Washington. U.S. Government Printing Office, July 1981. For information on nutritional applications of these surveys, see: Yetley, E., and C. Johnson, 1987. Nutritional applications of the Health and Nutrition Examination Surveys (HANES). *Ann Rev Nutr* 7:441-63.

The Hispanic Health and Nutrition Examination Survey (HHANES), conducted during 1982-84, was similar in content and design to the previous National Health and Nutrition Examination Surveys. The major difference between HHANES and the previous national surveys is that HHANES employed a probability sample of three special subgroups of the population living in selected areas of the United States rather than a national probability sample. The three HHANES universes included approximately 84, 57, and 59 percent of the respective 1980 Mexican, Cuban, and Puerto Rican-origin populations in the continental United States. The Hispanic ethnicity of these populations was determined by self-report.

In the HHANES three geographically and ethnically distinct populations were studied: Mexican Americans in

Texas, New Mexico, Arizona, Colorado, and California; Cuban Americans living in Dade County, Florida; and Puerto Ricans living in parts of New York, New Jersey, and Connecticut. In the Southwest 9,894 persons were selected (75 percent or 7,462 were examined), in Dade County 2,244 persons were selected (60 percent or 1,357 were examined), and in the Northeast 3,786 persons were selected (75 percent or 2,834 were examined).

For more information on HHANES, see: National Center for Health Statistics: Plan and operation of the Hispanic Health and Nutrition Examination Survey, 1982-84. *Vital and Health Statistics*. Series 1, No. 19. DHHS Pub. No. (PHS) 85-1321. Public Health Service. Washington. U.S. Government Printing Office, Sept. 1985.

The third National Health and Nutrition Examination Survey (NHANES III) is a 6-year survey covering the years 1988-94 and consists of two phases. The first phase, 1988-91, and the second phase, 1991-94, both separately constitute national samples of the U.S. population as does the complete 6-year survey. For the first phase of NHANES III (1988-91), a sample of 20,277 persons was selected. Of this sample, 15,630 (77 percent) were examined in the mobile examination center. Over the 6-year period, approximately 40,000 persons will be selected for the survey and approximately 30,000 are expected to be examined.

The NHANES III target population is the civilian noninstitutionalized population aged 2 months and over. The sample design provides for oversampling among children 2-35 months of age, persons aged 70 years and over, Black Americans, and Mexican Americans. Race is reported for the household by the respondent.

Although some of the specific health areas have changed from earlier NHANES surveys, the goals of the NHANES III are similar to those of earlier NHANES surveys:

- To estimate the national prevalence of selected diseases and risk factors;
- To estimate national population reference distributions of selected health parameters; and
- To document and investigate reasons for secular trends in selected diseases and risk factors.

Two additional goals are new for the NHANES III Survey:

- To contribute to an understanding of disease etiology; and
- To investigate the natural history of selected diseases.

For more information on NHANES III, see: National Center for Health Statistics: Sample Design: Third National Health and Nutrition Examination Survey. *Vital and Health Statistics*. Series 2, No. 113. DHHS Pub. No. (PHS) 92-1387. Public Health Service. Washington. U.S. Government Printing Office, Sept. 1992.

National Master Facility Inventory

The National Master Facility Inventory (NMFI) is a comprehensive file of inpatient health facilities in the

United States. The three broad categories of facilities in NMFI are hospitals, nursing and related care homes, and other custodial or remedial care facilities. To be included in NMFI, hospitals must have at least six inpatient beds; nursing and related care homes and other facilities must have at least three inpatient beds.

NMFI is kept current by the periodic addition of names and addresses obtained from State licensing and other agencies for all newly established inpatient facilities. In addition, annual surveys of hospitals and periodic surveys of nursing homes and other facilities are conducted to update name and location, type of business, number of beds, and number of residents or patients in the facilities, and to identify those facilities that have gone out of business.

From 1968-75 the hospital survey was conducted in conjunction with the American Hospital Association (AHA) Annual Survey of Hospitals. AHA performed the data collection for its member hospitals, while the National Center for Health Statistics (NCHS) collected the data for the approximately 400 non-AHA registered hospitals. Since 1976, however, all of the data collection has been performed by AHA.

Hospitals are requested to report data for the full year ending September 30. More than half of the responding hospitals used this reporting period for the 1982 survey. The remaining hospitals used various other reporting periods. The response rate for the 1982 hospital survey was about 90 percent and was 96 percent for the 1986 survey.

The nursing home and other facilities surveys were conducted by NCHS in 1963, 1967, 1969, 1971, 1973, 1976, 1978, 1980, 1982, and 1986. In the 1980 and 1982 NMFI surveys, only nursing and related care homes were covered. In 1986 nursing and related care homes and facilities for the mentally retarded were covered and called the Inventory of Long-Term Care Places. In 1982 arrangements were made with 35 States for obtaining their data on nursing and related care homes. NCHS surveyed certain types of homes that were excluded from the State surveys.

Statistics derived from the hospital and nursing home and other facilities surveys were adjusted for facility and item nonresponse. Missing items on the questionnaire were imputed, when possible, by using information reported by the same facility in a previous survey. When data were not available from a previous census for a responding facility, the data were imputed by using data from similar responding facilities. Similar facilities are defined as those with the same types of business, ownership, service, and approximately the same bed size.

For more detailed information on NMFI, see: National Center for Health Statistics, D. A. Roper: Nursing and related care homes as reported from the 1982 NMFI survey. *Vital and Health Statistics*. Series 14, No. 32. DHHS Pub. No. (PHS) 86-1827. Public Health Service. Washington. U.S. Government Printing Office, Sept. 1986; and National Center for Health Statistics, A. Sirrocco. The 1986 Inventory of Long-Term Care Places: An overview of facilities for the mentally retarded. *Advance Data From Vital and Health Statistics*. No. 143.

National Hospital Discharge Survey

The National Hospital Discharge Survey (NHDS) is a continuing nationwide sample survey of short-stay hospitals in the United States. Before 1988 the scope of NHDS encompassed patients discharged from noninstitutional hospitals, exclusive of military and Veterans Administration hospitals, located in the 50 States and the District of Columbia. Only hospitals having six or more beds for patient use and those in which the average length of stay for all patients is less than 30 days are included in the survey. Beginning in 1988 the scope was altered slightly to include all general and children's general hospitals regardless of the length of stay. Although all discharges of patients from these hospitals are within the scope of the survey, discharges of newborn infants from all hospitals are excluded from this report as well as discharges of all patients from Federal hospitals.

The original sample was selected in 1964 from a frame of short-stay hospitals listed in the National Master Facility Inventory. A two-stage stratified sample design was used, and hospitals were stratified according to bed size and geographic region. Sample hospitals were selected with probabilities ranging from certainty for the largest hospitals to 1 in 40 for the smallest hospitals. Within each sample hospital, a systematic random sample of discharges was selected from the daily listing sheet. Initially, the within-hospital sampling rates for selecting discharges varied inversely with the probability of hospital selection so that the overall probability of selecting a discharge was approximately the same across the sample. Those rates were adjusted for individual hospitals in subsequent years to control the reporting burden of those hospitals.

In 1985, for the first time, two data collection procedures were used for the survey. The first was the traditional manual system of sample selection and data abstraction. In the manual system, sample selection and transcription of information from the hospital records to abstract forms were performed by either the hospital staff or representatives of the National Center for Health Statistics (NCHS) or both. The second was an automated method, used in approximately 17 percent of the sample hospitals in 1985, involving the purchase of data tapes from commercial abstracting services. Upon receipt of these tapes they were subject to NCHS sampling, editing, and weighting procedures.

In 1988 the NHDS was redesigned. The hospitals with the most beds and/or discharges annually were selected with certainty, but the remaining sample was selected using a three-stage stratified design. The first stage is a sample of the primary sampling units (PSU's) used by the National Health Interview Survey. Within PSU's, hospitals were stratified or arrayed by abstracting status (whether subscribing to a commercial abstracting service) and within abstracting status arrayed by type of service and bed size. Within these strata and arrays, a systematic sampling scheme with probability proportional to the number of discharges annually was used to select hospitals. The rates for systematic sampling of discharges

within hospitals vary inversely with probability of hospital selection within PSU. Discharge records from hospitals submitting data via commercial abstracting services (approximately 30 percent of sample hospitals in 1991) were arrayed by primary diagnoses, patient sex and age group, and date of discharge before sampling. Otherwise, the procedures for sampling discharges within hospitals is the same as that used in the prior design.

In 1991 the hospital sample was updated by continuing the sampling process among hospitals which were NHDS-eligible for the sampling frame in 1991, but not 1987. That is, the additional hospitals were added at the end of the list for the strata where they belonged, and the systematic sampling was continued as if the additional hospitals had been present during the initial sample selection. Hospitals which were no longer NHDS-eligible were deleted. The updating process will be repeated every third year.

The basic unit of estimation for NHDS is the sample patient abstract. The estimation procedure involves inflation by the reciprocal of the probability of selection, adjustment for nonresponding hospitals and missing abstracts, and ratio adjustments to fixed totals. Of the 529 hospitals selected for the survey, 521 were within the scope of the survey, and 484 participated in the survey in 1991. Data were abstracted from about 275,000 medical records.

For more detailed information on the design of NHDS and the magnitude of sampling errors associated with NHDS estimates, see: National Center for Health Statistics, E. J. Graves: National Hospital Discharge Survey: Annual Summary, 1990. *Vital and Health Statistics*. Series 13, No. 112. DHHS Pub. No. (PHS) 92-1773. Public Health Service. Washington. U.S. Government Printing Office, June 1992; and Haupt, B. J., Kozak, L. J.: National Hospital Discharge Survey: Estimates from two survey designs. *Vital and Health Statistics*. Series 13, No. 111. DHHS Pub. No. (PHS) 92-1772. Public Health Service. Washington. U.S. Government Printing Office, May 1992.

National Nursing Home Survey

The National Center for Health Statistics (NCHS) has conducted three National Nursing Home Surveys. The first survey was conducted from August 1973–April 1974; the second survey from May–December 1977; and the third from August 1985–January 1986.

Much of the background information and experience used to develop the first National Nursing Home Survey was obtained from a series of three ad hoc sample surveys of nursing and personal care homes called the Resident Places Surveys (RPS-1, -2, -3). The three surveys were conducted by the National Center for Health Statistics during April–June 1963, May–June 1964, and June–August 1969. During the first survey, RPS-1, data were collected on nursing homes, chronic disease and geriatric hospitals, nursing home units, and chronic disease wards of general and mental hospitals. RPS-2 concentrated mainly on nursing homes and geriatric hospitals. During the third survey, RPS-3, nursing and personal care homes in the coterminous United States were sampled.

For the initial National Nursing Home Survey (NNHS) conducted in 1973–74, the universe included only those nursing homes that provided some level of nursing care. Thus, homes providing only personal or domiciliary care were excluded. The sample of 2,118 homes was selected from the 17,685 homes that provided some level of nursing care and were listed in the 1971 National Master Facility Inventory (NMFI) or those that opened for business in 1972. Data were obtained from about 20,600 staff and 19,000 residents. Response rates were 97 percent for facilities, 88 percent for expenditures, 98 percent for residents, and 82 percent for staff.

The scope of the 1977 NNHS encompassed all types of nursing homes, including personal care and domiciliary care homes. The sample of about 1,700 facilities was selected from 23,105 nursing homes in the sampling frame, which consisted of all homes listed in the 1973 NMFI and those opening for business between 1973 and December 1976. Data were obtained from about 13,600 staff, 7,000 residents, and 5,100 discharged residents. Response rates were 95 percent for facilities, 85 percent for expenses, 81 percent for staff, 99 percent for residents, and 97 percent for discharges.

The scope of the 1985 NNHS was similar to the 1977 survey in that it included all types of nursing homes. The sample of 1,220 homes was selected from a sampling frame of 20,479 nursing and related care homes. The frame consisted of all homes in the 1982 NMFI; homes identified in the 1982 Complement Survey of the NMFI as "missing" from the 1982 NMFI; facilities that opened for business between 1982 and June 1984; and hospital-based nursing homes obtained from the Health Care Financing Administration. Information on the facility was collected through a personal interview with the administrator. Accountants were asked to complete a questionnaire on expenditures or provide a financial statement. Resident data were provided by a nurse familiar with the care provided to the resident. The nurse relied on the medical record and personal knowledge of the resident. In addition to employee data that were collected during the interview with the administrator, a sample of registered nurses completed a self-administered questionnaire. Discharge data were based on information recorded in the medical record. Additional data about the current and discharged residents were obtained in telephone interviews with next of kin. Data were obtained from 1,079 facilities, 2,763 registered nurses, 5,243 current residents, and 6,023 discharges. Response rates were 93 percent for facilities, 68 percent for expenses, 80 percent for registered nurses, 97 percent for residents, 95 percent for discharges, and 90 percent for next of kin.

Statistics for all three surveys were derived by a ratio-estimation procedure. Statistics were adjusted for failure of a home to respond, failure to fill out one of the questionnaires, and failure to complete an item on a questionnaire.

For more information on the 1973–74 NNHS, see: National Center for Health Statistics, M. R. Meiners: Selected operating and financial characteristics of nursing homes, United States, 1973–74 National Nursing Home Survey. *Vital and Health Statistics*. Series 13, No.

22. DHEW Pub. No. (HRA) 76-1773. Health Resources Administration. Washington. U.S. Government Printing Office, Dec. 1975. For more information on the 1977 NNHS, see: National Center for Health Statistics, J. F. Van Nostrand, A. Zappolo, E. Hing, et al.: The National Nursing Home Survey, 1977 Summary for the United States. *Vital and Health Statistics*. Series 13, No. 43. DHHS Pub. No. (PHS) 79-1794. Public Health Service. Washington. U.S. Government Printing Office, July 1979. For more information on the 1985 NNHS, see: National Center for Health Statistics, E. Hing, E. Sekscenski, G. Strahan: The National Nursing Home Survey, 1985 Summary for the United States. *Vital and Health Statistics*. Series 13, No. 97. DHHS Pub. No. (PHS) 89-1758. Public Health Service. Washington. U.S. Government Printing Office, Jan. 1989.

National Ambulatory Medical Care Survey

The National Ambulatory Medical Care Survey (NAMCS) is a continuing national probability sample of ambulatory medical encounters. The scope of the survey covers physician-patient encounters in the offices of nonfederally employed physicians classified by the American Medical Association or American Osteopathic Association as "office-based, patient care" physicians. Excluded are visits to hospital-based physicians, visits to specialists in anesthesiology, pathology, and radiology and visits to physicians who are principally engaged in teaching, research, or administration. Telephone contacts and nonoffice visits are also excluded.

A multistage probability design is employed. The first-stage sample consists of 84 primary sampling units (PSU's) in 1985 and 112 PSU's in 1989 selected from about 1,900 such units into which the United States has been divided. In each sample PSU a sample of practicing nonfederal office-based physicians is selected from masterfiles maintained by the American Medical Association and the American Osteopathic Association. The final stage involves systematic random samples of office visits during randomly assigned 7-day reporting periods. In 1985 the survey excluded Alaska and Hawaii. In 1989 the survey included all 50 States.

For the 1985 survey a sample of 5,032 physicians was selected. The physician response rate for 1985 was 70 percent providing data on 71,594 patient records. For the 1990 survey a sample of 3,063 physicians was selected. The physician response rate for 1990 was 74 percent providing data on 43,469 patient records. Race and ethnicity in patient records are based on observation by physician or staff.

The estimation procedure used in NAMCS basically has three components: inflation by the reciprocal of the probability of selection, adjustment for nonresponse, and ratio adjustment to fixed totals.

For more detailed information on the design of NAMCS and the magnitude of sampling errors associated with NAMCS estimates, see: National Center for Health Statistics, S. Schappert. 1990 Summary: National Ambulatory Medical Care Survey. *Advance Data From Vital and Health Statistics*. No. 213. DHHS Pub. No. (PHS) 92-1250. Public Health Service. Hyattsville, Md., 1992.

National Center for Infectious Diseases

AIDS Surveillance

Acquired immunodeficiency syndrome (AIDS) surveillance is conducted by health departments in each State, territory, and the District of Columbia. Although surveillance activities range from passive to active, most areas employ multifaceted active surveillance programs, which include four major reporting sources of AIDS information: hospitals and hospital-based physicians, physicians in nonhospital practice, public and private clinics, and medical record systems (death certificates, tumor registries, hospital discharge abstracts, and communicable disease reports). Using a standard confidential case report form, the health departments collect information without personal identifiers, which is coded and computerized either at the Centers for Disease Control and Prevention (CDC) or at health departments from which it is then transmitted electronically to CDC.

AIDS surveillance data are used to detect epidemiologic trends, to identify unusual cases requiring follow up, and for publication in the *HIV/AIDS Surveillance Report*. Studies to determine the completeness of reporting of AIDS cases meeting the national surveillance definition suggest reporting at greater than or equal to 90 percent. The number of deaths among AIDS cases reported to the CDC AIDS Surveillance System differs from the number of HIV infection deaths based on the National Vital Statistics System. The major reasons for these differences are that not all persons diagnosed with AIDS are reported to the AIDS Surveillance System, not all deaths among persons with AIDS are due to AIDS, and not all deaths due to HIV infection are reported as such on the death certificate.

For more information on AIDS surveillance, contact: Chief, Surveillance Section, Surveillance and Evaluation Branch, AIDS Program, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, Ga. 30333.

Epidemiology Program Office

National Notifiable Diseases Surveillance System

The Epidemiology Program Office (EPO) of the Centers for Disease Control and Prevention (CDC), in partnership with the Council of State and Territorial Epidemiologists (CSTE), operates the National Notifiable Diseases Surveillance System. The purpose of this system is primarily to provide weekly provisional information on the occurrence of diseases defined as notifiable by CSTE. In addition, the system also provides summary data on an annual basis. State epidemiologists report cases of notifiable diseases to EPO, and EPO tabulates and publishes these data in the *Morbidity and Mortality Weekly Report (MMWR)* and the *Summary of Notifiable Diseases, United States* (entitled *Annual Summary* before 1985). Notifiable disease surveillance is used by public health practitioners at local, State, and national levels as part of disease prevention and control activities.

Notifiable disease reports are received from 52 areas in the United States and 5 territories. To calculate U.S. rates, data reported by 50 States, New York City, and the District of Columbia, are used (New York State is reported as Upstate New York, which excludes New York City).

Completeness of reporting varies because not all cases receive medical care and not all treated conditions are reported. Although State laws and regulations mandate disease reporting, reporting to CDC by States and territories is voluntary. Reporting of varicella (chickenpox) and mumps to CDC is not done by some States in which these diseases are not notifiable to local or State authorities. The number of areas reporting varicella was 31 in 1985, 33 in 1988, 30 in 1989, and 31 in 1990 and 1991. The number of areas reporting mumps was 48 in 1985 and 1988, and 50 in 1989, 1990, and 1991.

Estimates of underreporting of some diseases have been made. For example, it is estimated that only 10 percent of cases of congenital rubella syndrome are reported. Only 10–15 percent of all measles cases were reported prior to the institution of the Measles Elimination Program in 1978. A recent investigation following an outbreak in an inner city suggests that fewer than 50 percent of measles cases are reported. Data from a study of pertussis suggest that only one-third of severe cases causing hospitalization or death are reported. Data from a study of tetanus deaths suggest that only 40 percent of tetanus cases are reported to CDC.

For more information, see: Centers for Disease Control and Prevention, Final 1991 reports of notifiable diseases, *Morbidity and Mortality Weekly Report*, 40(53), Public Health Service, DHHS, Atlanta, Ga., Oct. 1992, or write to Centers for Disease Control and Prevention, Director, Division of Surveillance and Epidemiology, Atlanta, Ga. 30333.

National Center for Chronic Disease Prevention and Health Promotion

Abortion Surveillance

The Centers for Disease Control and Prevention (CDC) acquires abortion service statistics by State of occurrence from three sources—central health agencies, hospitals and other medical facilities, and the National Center for Health Statistics. Most of the central health agencies have established direct reporting systems, although a few collected data by surveying abortion facilities. Epidemiologic surveillance of abortion was initiated in eight States in 1969, and now statewide abortion data are also reported by the remaining States.

The total number of abortions reported to CDC is about 16 percent less than the total estimated independently by the Alan Guttmacher Institute, the research and development division of the Planned Parenthood Federation of America, Inc.

For more information, contact: Director, Division of Reproductive Health, Center for Health Promotion and Education, Centers for Disease Control and Prevention, Atlanta, Ga. 30333.

National Center for Prevention Services

U.S. Immunization Survey

This system is the result of a contractual agreement between the Centers for Disease Control and Prevention and the U.S. Bureau of the Census. Estimates from the U.S. Immunization Survey are based on data obtained during the third week of September in certain years for a subsample of households interviewed for the Current Population Survey, which is described separately in this appendix.

The reporting system contains demographic variables and vaccine history along with disease history when relevant to vaccine history. The system is used to estimate the immunization level of the Nation's child population against the vaccine-preventable diseases; from time to time, immunization level data on the adult population are collected.

The scope of the U.S. Immunization Survey covers the 50 States and the District of Columbia. For example, the 1981 sample included approximately 45,000 household units. Six thousand sample units were found to be vacant or otherwise not to be interviewed. Of the approximately 39,000 occupied households eligible for interview, about 1,500 were not interviewed because the occupants were not at home after repeated calls or were unavailable for some other reason.

The estimating procedure that was used involves the inflation of weighted sample results to independent estimates of the civilian noninstitutionalized population of the United States by age and race.

In 1979 the questionnaire was modified to solicit information regarding the source of immunization responses given by the interviewee. This change was made to measure the percent of responses for which a family immunization record was the source of the information.

For more information about the survey methodology, contact: Director, Division of Immunization, Center for Preventive Services, Centers for Disease Control and Prevention, Atlanta, Ga. 30333.

National Institute for Occupational Safety and Health

National Traumatic Occupational Fatalities Data Base

The National Traumatic Occupational Fatalities (NTOF) data base is compiled by the National Institute for Occupational Safety and Health (NIOSH) based on information taken from death certificates. Certificates are collected from 52 vital statistics reporting units (the 50 States, New York City, and the District of Columbia) based on the following criteria: (1) age 16 years or older; (2) an external cause of death (ICD-9, E800-E999); and (3) a positive response to the injury at work item.

There is no standardized definition of a work-related injury and no national guidelines exist regarding the completion of this item on the death certificate. Thus, numbers and rates of occupational injury deaths from NTOF should be regarded as the lower bound for the true number of these events. Denominator data for the

calculation of rates by industry division were obtained from the U.S. Bureau of the Census' County Business Patterns, supplemented by employment data for agriculture derived from the U.S. Bureau of the Census' 1982 Census of Agriculture and public administration employment data taken from the Bureau of Labor Statistics' annual average employment data for 1980-86. The rates presented are for the U.S. civilian labor force.

For further information on NTOF, contact: Director, Division of Safety Research, National Institute for Occupational Safety and Health, 944 Chestnut Ridge Road, Mailstop S-133, Morgantown, W.Va. 26505.

National Occupational Hazard Survey

The National Occupational Hazard Survey (NOHS) was conducted by the National Institute for Occupational Safety and Health (NIOSH) to obtain data on employee exposure to particular chemicals and physical agents in various industries.

A random sample of 4,636 urban workplaces was selected by the U.S. Department of Labor, Bureau of Labor Statistics. Because mining and government activities are not within the coverage of the Occupational Safety and Health Act and agricultural and rural areas were beyond the logistical capacity of the survey, the sample excluded those types of facilities. Included were facilities in 66 different two-digit Standard Industrial Classifications (SICs), located in 67 standard metropolitan statistical areas. Field work was performed by 20 industrial hygiene surveyors who collected data from February 1972 through June 1974.

Information in Part I, elicited during a questionnaire interview of management, profiled the SIC and size of facility, along with its medical, safety, and industrial hygiene programs. Part II, the greatest part of the NOHS data, contained the recorded observations of the surveyor's management-escorted "walk-through" of all facility work areas. Part II listed, by job title, the number of employees who were potentially exposed to the same chemicals and physical agents. The surveyor recorded all materials and physical agents each employee group encountered, regardless of toxicity; hazardous nature; conditions of use; and the presence, absence, or effectiveness of any exposure control measures. For each potential exposure listed within an occupational group, the surveyor also recorded the duration, intensity, form, and the control utilized and whether it functioned.

For more information on NOHS, see: National Institute for Occupational Safety and Health, National Occupational Hazard Survey, Vol. I, Survey manual, DHEW Pub. No. (NIOSH) 74-127; Vol. II, Data editing and data base development, DHEW Pub. No. (NIOSH) 77-213; Vol. III, Survey analysis and supplemental tables, DHEW Pub. No. (NIOSH) 78-114.

National Occupational Exposure Survey

During 1981-83 NIOSH conducted a second national survey of worksites patterned after the NOHS. In this second survey, known as the National Occupational Exposure Survey (NOES), information was collected essentially identical to the NOHS in a sample of 4,490 facilities over a 30-month period.

For further information on NOES, see: National Institute for Occupational Safety and Health, National Occupational Exposure Survey, Vol. I, Survey Manual, DHHS Pub. No. (NIOSH) 86-106; Vol. II, Sampling Methodology, DHHS Pub. No. (NIOSH) 89-102; and Vol. III, Analysis of Management Interview Responses, DHHS Pub. No. (NIOSH) 89-103.

Health Resources and Services Administration Bureau of Health Professions

Physician Supply Projections

Physician supply projections in this report are based on a model developed by the Bureau of Health Professions to forecast the supply of physicians by specialty, activity, and State of practice. The 1986 supply of active physicians (M.D.s) was used as the starting point for the most recent projections of active physicians. The major source of data used to obtain 1986 figures was the American Medical Association (AMA) Physician Masterfile.

In the first stage of the projections, graduates from U.S. schools of allopathic (M.D.) and osteopathic (D.O.) medicine and internationally-trained additions were estimated on a year-by-year basis. Estimates of first-year enrollments, student attrition, other medical school-related trends, and a model of net internationally-trained medical graduate immigration were used in deriving these annual additions. These year-by-year additions were then combined with the already existing active supply in a given year to produce a preliminary estimate of the active work force in each succeeding year. These estimates were then reduced to account for mortality and retirement. Gender-specific mortality and retirement losses were computed by 5-year age cohorts on an annual basis, using age distributions and mortality and retirement rates based on AMA data.

For more information, see: Bureau of Health Professions, *Eighth Report to the President and Congress on the Status of Health Personnel in the United States*, DHHS Pub. No. HRS-P-OD-92-1, Health Resources and Services Administration, Rockville, Md.

Nurse Supply Estimates

Nursing estimates in this report are based on a model developed by the Bureau of Health Professions to meet the requirements of Section 951, P.L. 94-63. The model estimates the following for each State: (1) nurse population—those with current licenses to practice; (2) nurse supply—all practicing nurses either full or part time (or all of those available to practice at that time); and (3) full-time equivalent supply—nurses practicing full time plus one-half of those practicing part time (or available on that basis).

Each of the three estimates are divided into three levels of highest educational preparation: associate degree or diploma; baccalaureate; master's and doctorate.

Among the factors considered are new graduates, changes in educational status, nursing employment rates,

age, migration patterns, death rates, and licensure phenomena. Data sources include National League for Nursing for data on nursing education and National Council of State Boards of Nursing for data on licensure. Data on the number and characteristics of registered nurses are based on data from the National Sample Survey of Registered Nurses conducted by the Division of Nursing, Bureau of Health Professions in March 1988.

Substance Abuse and Mental Health Services Administration

Office of Applied Studies

National Household Surveys on Drug Abuse

Data on trends in use of marijuana, cigarettes, and alcohol among youths 12-17 years of age and young adults 18-25 years of age are from the National Household Survey on Drug Abuse. The 1991 survey is the 11th in a series that began in 1971 under the auspices of the National Commission on Marijuana and Drug Abuse. Since 1974, the survey has been sponsored by the National Institute on Drug Abuse.

The National Household Survey covers the population group 12 years of age and over living in households in the United States. The 1991 survey is based on home personal interviews of 32,594 randomly selected persons 12 years of age and over. Youths (12-17 years of age) and young adults (18-25 years of age) are oversampled as are black persons and Hispanics. The interview response rate in this survey was 85 percent for the youth and young adult sample. In 1991 the sample was broadened to include college students in dormitories, homeless people in shelters, civilians in military installations, and special expanded samples of six major metropolitan areas. Alaska and Hawaii were included for the first time in 1991.

For more information on the National Household Survey on Drug Abuse, see: Population Estimates, 1991. For further information on the National Household Survey on Drug Abuse, write: Office of Applied Studies, Substance Abuse and Mental Health Services Administration, 5600 Fishers Lane, Rockwall II, Suite 6-15, Rockville, Md. 20857.

The Drug Abuse Warning Network

The Drug Abuse Warning Network (DAWN) is a large-scale, ongoing drug abuse data collection system based on information from emergency room and medical examiner facilities. DAWN collects information about those drug abuse occurrences that have resulted in a medical crisis or death. The major objectives of the DAWN data system include: the monitoring of drug abuse patterns and trends, identification of substances associated with drug abuse episodes, and the assessment of drug-related consequences and other health hazards.

Before 1989 DAWN data were collected from a nonrandom panel of emergency rooms located primarily in 21 metropolitan areas throughout the continental United States. The same group of emergency rooms contributed DAWN data during these years, and were

referred to as a consistent panel. In 1989 the DAWN was redesigned from a nonrandom sample to a national probability sample of emergency rooms located throughout the continental United States. For the 1989 sample, a sample of 685 hospitals was selected from the American Hospital Association inventory of nonfederal short-stay hospitals. A response rate of 78 percent was obtained in 1991.

Within each facility, a designated DAWN reporter is responsible for identifying drug abuse episodes by reviewing official records and transcribing and submitting data on each case.

For further information, see: The Drug Abuse Warning Network (DAWN), Annual Data, 1991, Parts A and B, or write to: Office of Applied Studies, Substance Abuse and Mental Health Services Administration, 5600 Fishers Lane, Rockwall II, Suite 6-15, Rockville, Md. 20857.

Center for Mental Health Services

Surveys of Mental Health Organizations

The Survey and Analysis Branch of the Division of State and Community Systems Development conducts a biennial inventory of mental health organizations and general hospital mental health services (IMHO/GHMHS). One version is designed for specialty mental health organizations and another for nonfederal general hospitals with separate psychiatric services. The response rate to most of the items on these inventories is relatively high (90 percent or better) as is the rate for data presented in this report. However, for some inventory items, the response rate may be somewhat lower.

The IMHO/GHMHS is the primary source for Center for Mental Health Services data included in this report. This data system is based on questionnaires mailed every other year to mental health organizations in the United States, including psychiatric hospitals, nonfederal general hospitals with psychiatric services, Veterans Administration psychiatric services, residential treatment centers for emotionally disturbed children, freestanding outpatient psychiatric clinics, partial care organizations, and freestanding and multiservice mental health organizations, not elsewhere classified.

Federally funded community mental health centers (CMHC's) were included separately through 1980. In 1981, with the advent of block grants, the changes in definition of CMHC's, and the discontinuation of CMHC monitoring by the Center for Mental Health Services, organizations formerly classified as CMHC's have been reclassified as other organization types, primarily "multiservice mental health organizations, not elsewhere classified" and "freestanding psychiatric outpatient clinics."

Beginning in 1983 any organization that provides services in any combination of two or more services (for example, outpatient plus partial care, residential treatment plus outpatient plus partial care) and is neither a hospital nor a residential treatment center for emotionally disturbed children is classified as a multiservice mental health organization. Before 1983 an organization had to have either inpatient or residential

treatment services in combination with at least one other service to be a "multiservice mental health organization." The result of this definitional change is to increase sharply the number of multiservice mental health organizations, therefore, decreasing the number of freestanding psychiatric outpatient clinics.

Other surveys conducted by the Survey and Analysis Branch encompass samples of patients admitted to State, county, and private mental hospitals, outpatient psychiatric services, and Veterans Administration psychiatric services. The purpose of these surveys is to determine the sociodemographic, clinical, and treatment characteristics of patients served by these facilities.

For more information, write: Survey and Analysis Branch, Division of State and Community Systems Development Center for Mental Health Services, Room 18C-07, 5600 Fishers Lane, Rockville, Md. 20857. For further information on mental health, see: National Institute of Mental Health, *Mental Health, United States, 1990*. R. W. Manderscheid and M. A. Sonnenschein, eds. DHHS Pub. No. (ADM) 90-1708. U.S. Government Printing Office, 1990.

National Institutes of Health

National Cancer Institute

Surveillance, Epidemiology, and End Results Program

In the Surveillance, Epidemiology, and End Results (SEER) Program the National Cancer Institute (NCI) contracts with 11 population-based registries throughout the United States and Puerto Rico to provide data on all residents diagnosed with cancer during the year and to provide current follow-up information on all previously diagnosed patients.

All patients included in this report were residents of one of the following geographic areas at the time of their initial diagnosis of cancer: Atlanta, Georgia; Detroit, Michigan; Seattle-Puget Sound, Washington; San Francisco-Oakland, California; Connecticut; Iowa; New Mexico; Utah; and Hawaii. Data from New Jersey were excluded because those data are available only since 1979. Further, data from Puerto Rico were also excluded because this analysis focuses on trends occurring within the United States exclusive of its territories.

Population estimates used to calculate incidence rates are obtained from the U.S. Bureau of the Census. NCI uses estimation procedures as needed to obtain estimates for years and races not included in the data provided by the U.S. Bureau of the Census. Rates presented in this report may differ somewhat from previous reports due to revised population estimates and the addition and deletion of small numbers of incidence cases.

Life tables used to determine normal life expectancy when calculating relative survival rates were obtained from the National Center for Health Statistics. Separate life tables are used for each race-sex-specific group included in the SEER Program.

For further information, see: National Cancer Institute, *Cancer Statistics Review, 1973-90* by

L. Gloeckler Ries, et al., NIH Pub. No. 93-2789. Public Health Service. Bethesda, Md., 1993.

National Institute on Drug Abuse

High School Senior Survey (Monitoring the Future Survey)

The High School Senior Survey is a large-scale epidemiological survey of drug abuse initiated by the National Institute on Drug Abuse (NIDA) in 1975 and conducted annually through a NIDA grant awarded to the University of Michigan's Institute for Social Research. Each year data are collected in 125-135 public and private high schools, yielding a sample of approximately 16,000 high school seniors.

The survey design is a multistage random sample with stage one being the selection of particular geographic areas, stage two the selection of one or more high schools in each area, and stage three the selection of seniors within each high school. Data are collected through written questionnaires administered in the classroom by the Institute for Social Research representatives. High school dropouts and absentees (on the day of the survey) are excluded from the survey. Data from the Census Bureau show that between 1980 and 1990 the percent of persons 16-24 years of age who had not finished high school and were not enrolled in school declined slightly from 11 to 9 percent of white persons and dropped from 19 to 13 percent of black persons.

For further information on the High School Senior Survey, see: National Institute for Drug Abuse, Drug Use Among American High School Seniors, College Students, and Young Adults, 1975-1990, Vols. I and II. DHHS Pub. No. (ADM) 92-1940. U.S. Government Printing Office, 1992.

Health Care Financing Administration

Office of the Actuary

Estimates of National Health Expenditures

Estimates of expenditures for health (National Health Accounts) are compiled annually by type of expenditure and source of funds.

Estimates of expenditures for health services come from an array of sources. The American Hospital Association data on hospital finances are the primary source for estimates relating to hospital care. The salaries of physicians and dentists on the staffs of hospitals, hospital outpatient clinics, hospital-based home health agencies, and nursing home care provided in the hospital setting are considered to be components of hospital care. Expenditures for services of health professionals (doctors, dentists, chiropractors, private duty nurses, therapists, podiatrists, etc.) are estimated using a combination of data from the U.S. Bureau of the Census' Services Annual Survey and the quinquennial census of Service Industries, from the Internal Revenue Service and from tabulations on the operations of health maintenance organizations. Expenditures for drugs and

other medical nondurables and vision products and other medical durables purchased in retail outlets are based on estimates of personal consumption expenditures prepared by the U.S. Department of Commerce's Bureau of Economic Analysis and on industry data on prescription drug transactions. Those durable and nondurable products provided to inpatients in hospitals or nursing homes, and those provided by licensed professionals or through home health agencies are excluded here, but are included with the expenditure estimates for those in the provider service category. Nursing home expenditures cover care rendered in establishments providing inpatient nursing and health-related personal care through active treatment programs for medical and health-related conditions. These establishments cover skilled nursing and intermediate care facilities, including those for the mentally retarded. Spending estimates are based upon revenue data from the National Nursing Home Survey conducted by the National Center for Health Statistics. Expenditures for construction include the erection or renovation of hospitals, nursing homes, medical clinics, and medical research facilities, but not for private office buildings providing office space for private practitioners. Expenditures for noncommercial research (the cost of commercial research by drug companies are assumed to be imbedded in the price charged for the product; to include this item again would result in double counting) are developed from information gathered by the National Institutes of Health.

Source of funding estimates likewise come from a multiplicity of sources. Data on the Federal health programs are taken from administrative records maintained by the servicing agencies. Among the sources used to estimate State and local government spending for health are the U.S. Bureau of the Census' *Government Finances* and Social Security Administration reports on State-operated Workers' Compensation programs. Federal and State-local expenditures for education and training of medical personnel are excluded from these measures where they are separable. For the private financing of health care, data on the financial experience of health insurance organizations come from special Health Care Financing Administration analyses of private health insurers. Information on out-of-pocket spending from the U.S. Bureau of Labor Statistics' Consumer Expenditure Survey, from the 1977 National Medical Care Expenditure Survey conducted by the National Center for Health Services Research and from private surveys conducted by the American Hospital Association, American Medical Association, and the American Dental Association is used to develop estimates of direct spending by consumers.

For more specific information on definitions, sources, and methods used in the National Health Accounts, see: National Health Expenditures, 1991, by Suzanne Letsch, Helen Lazenby, Cathy Cowan and Katharine Levit, Office of the Actuary, *Health Care Financing Review*, Vol. 14, No. 2. HCFA Pub. No. 03335. Health Care Financing Administration. Washington. U.S. Government Printing Office, Winter 1992.

Medicare Statistical System

The Medicare Statistical System (MSS) provides data for examining the program's effectiveness and for tracking the eligibility of enrollees and the benefits they use, the certification status of institutional providers, and the payments made for covered services. Records are maintained on about 33 million enrollees and 24,000 participating institutional providers; and about 420 million bills for services are processed annually.

The MSS contains four major computer files: the health insurance master file, the service provider file, the Hospital Insurance (HI) claims file, and the Supplementary Medical Insurance (SMI) payment records file.

The health insurance master file contains records for each aged and disabled enrollee and includes data on type of entitlement, deductible status, benefit period status and benefits used, as well as demographic information such as age, sex, race, and residence.

The service provider file contains information on hospitals, home health agencies, skilled nursing facilities, independent clinical laboratories, and suppliers of portable x ray or outpatient physical therapy services that participate in Medicare. For hospitals, data on number of beds, type of ownership, and other characteristics are included.

The HI claims file contains information on the beneficiaries' entitlement and their use of benefits during the benefit period for hospital, skilled nursing facility, and home health agency services.

The SMI payment record file provides information on whether the enrollee has met the deductible and on amounts paid for physicians' services and other SMI-covered services and supplies.

Data from the Medicare statistical system provide information about enrollee use of benefits for a point in time or over an extended period. Statistical reports are produced on enrollment, characteristics of participating providers, reimbursements, and services used.

For further information on the Medicare statistical system, see: Health Care Financing Administration, Medicare Statistical File Manual, HCFA Pub. No. 03272, Baltimore, Md., July 1988.

Medicaid Data System

The majority of Medicaid data are compiled from forms submitted annually by State Medicaid agencies to the Health Care Financing Administration (HCFA) for federal fiscal years ending September 30 on the Form HCFA-2082, *Statistical Report on Medical Care: Eligibles, Recipients, Payments, and Services*.

When using the data keep the following caveats in mind:

■ Counts of recipients and eligibles categorized by basis of eligibility generally count each person only once—based on the person's basis of eligibility as of first appearance on the Medicaid rolls during the federal fiscal year covered by the report. Note, however, that some States report duplicated counts of recipients; that is, they report an individual in as many categories as the individual had different eligibility statuses during the

year. In such cases, the sum of all basis-of-eligibility cells will be greater than the "total recipients" number.

■ Expenditure data include payments for all claims adjudicated or paid during the fiscal year covered by the report. Note that this is not the same as summing payments for services that were rendered during the reporting period.

■ Some States fail to submit the HCFA-2082 for a particular year. When this happens, HCFA estimates the current year's HCFA-2082 data for missing States based upon prior year's submissions and information the State entered on Form HCFA-64 (the form States use to claim reimbursement for Federal matching funds for Medicaid).

■ HCFA-2082's submitted by States frequently contain obvious errors in one or more cells in the form. For cells obviously in error, HCFA estimates values that appear to be more reasonable.

For further information on Medicaid data, see: *Health Care Financing Program Statistics: Analysis of State Medicaid Program Characteristics, 1986*, by C. Howe and R. Terrell, HCFA Pub. No. 03249, Health Care Financing Administration, Baltimore, Md. U.S. Government Printing Office, Aug. 1987.

Department of Commerce

Bureau of the Census

Census of Population

The census of population has been taken in the United States every 10 years since 1790. In the 1990 census, data were collected on sex, race, age, and marital status from 100 percent of the enumerated population. More detailed information such as income, education, housing, occupation, and industry were collected from a representative sample of the population. For most of the country, one out of six households (about 17 percent) received the more detailed questionnaire. In places of residence estimated to have less than 2,500 population, 50 percent of households received the long form.

For more information on the 1990 census, see: U.S. Bureau of the Census, *1990 Census of Population, General Population Characteristics*, Series 1990, CP-1.

Current Population Survey

The Current Population Survey (CPS) is a household sample survey of the civilian noninstitutionalized population conducted monthly by the Bureau of the Census. The CPS provides estimates of employment, unemployment, and other characteristics of the general labor force, the population as a whole, and various other subgroups of the population.

A list of housing units from the 1980 census, supplemented by newly constructed units and households known to be missed in the 1980 census, provides the sampling frame in most areas for the present CPS. In some rural locations, current household listings of selected land areas serve as the frame.

The present CPS sample is located in 729 sample areas, with coverage in every State and the District of Columbia. In an average month during 1991, the number of housing units or living quarters eligible for interview was about 60,000; of these between 4 and 5 percent were, for various reasons, unavailable for interview.

The estimation procedure used involves inflation by the reciprocal of the probability of selection, adjustment for nonresponse, and ratio adjustment.

For more information, see: U.S. Bureau of the Census, *The Current Population Survey, Design and Methodology*, Technical Paper 40, Washington, U.S. Government Printing Office, Jan. 1978.

Population Estimates

National population estimates are derived by using decennial census data as benchmarks and data available from various agencies as follows: Births and deaths (National Center for Health Statistics); immigrants (Immigration and Naturalization Service); Armed Forces (Department of Defense); net movement between Puerto Rico and the U.S. mainland (Puerto Rico Planning Board); and federal employees abroad (Office of Personnel Management and Department of Defense). State estimates are based on similar data and also on a variety of data series, including school statistics from State departments of education and parochial school systems. Current estimates are consistent with official decennial census figures and do not reflect estimated decennial census underenumeration.

After decennial population censuses, intercensal population estimates for the preceding decade are prepared to replace postcensal estimates. Intercensal population estimates are more accurate than postcensal estimates because they take into account the census of population at the beginning and end of the decade. Intercensal estimates have been prepared for the 1960's, 1970's, and 1980's to correct the "error of closure" or difference between the estimated population at the end of the decade and the census count for that date. The error of closure at the national level was quite small during the 1960's (379,000). However, for the 1970's it amounted to almost 5 million.

For more information, see: U.S. Bureau of the Census, *Estimates of the population of the United States, by age, sex, and race: 1980-1989, Current Population Reports*, Series P-25, No. 1057, Washington, U.S. Government Printing Office, 1990.

Department of Labor

Bureau of Labor Statistics

Annual Survey of Occupational Injuries and Illnesses

Since 1971 the Bureau of Labor Statistics (BLS) has conducted an annual survey of establishments in the private sector to collect statistics on occupational injuries and illnesses. The Annual Survey of Occupational Injuries and Illnesses is based on records that employers maintain under the Occupational Safety and Health Act. Excluded from the survey are self-employed individuals;

farmers with fewer than 11 employees; employers regulated by other Federal safety and health laws; and Federal, State, and local government agencies.

Data are obtained from a sample of approximately 280,000 establishments, that is, single physical locations where business is conducted or where services of industrial operations are performed. An independent sample is selected for each State and the District of Columbia that represents industries in that jurisdiction. The BLS then subsamples the State samples to select the establishments to be included in the national sample.

Establishments included in the survey are instructed in a mailed questionnaire to provide summary totals of all entries for the previous calendar year to its Log and Summary of Occupational Injuries and Illnesses (OSHA No. 200 form). Occupational injuries include any injury—such as a cut, fracture, sprain, or amputation, which results from a work accident or from exposure involving a single incident in the work environment. Occupational illnesses are any abnormal condition or disorder, other than one resulting from an occupational injury, caused by exposure to environmental factors associated with employment. Lost workday cases are cases that involve days away from work, or days of restricted work activity, or both. The response rate is about 94 percent.

For more information, see: Bureau of Labor Statistics, *Occupational Injuries and Illnesses in the United States by Industry, 1988*. BLS Bulletin 2366, U.S. Department of Labor, Washington, August 1990.

Consumer Price Index

The Consumer Price Index is a monthly measure of the average change in the prices paid by urban consumers for a fixed market basket of goods and services. The all-urban index (CPI-U) introduced in 1978 is representative of the buying habits of about 80 percent of the noninstitutionalized population of the United States.

In calculating the index, price changes for the various items in each location were averaged together with weights that represent their importance in the spending of all urban consumers. Local data were then combined to obtain a U.S. city average.

The index measures price changes from a designated reference date, 1982 to 1984, which equals 100. An increase of 22 percent, for example, is shown as 122. This change can also be expressed in dollars as follows: The price of a base period "market basket" of goods and services bought by all urban consumers has risen from \$10 in 1982 to 1984 and to \$11.83 in 1988.

The most recent revision of the CPI, completed in 1987, reflected spending patterns based on the Survey of Consumer Expenditures from 1982 to 1984, the 1980 Census of Population, and the ongoing Point-of-Purchase Survey. Using this improved sample design, prices for the goods and services required to calculate the index are collected in 85 urban areas throughout the country and from about 21,000 retail and service establishments. In addition, data on rents are collected from about 40,000 tenants and 20,000 owner-occupied housing units. Food, fuels, and a few other items are priced monthly in

all 85 locations. Prices of most other goods and services are collected bimonthly in the remaining areas. All price information is obtained through visits or calls by trained Bureau of Labor Statistics field representatives.

The 1987 revision changed the treatment of health insurance in the cost-weight definitions for medical care items. This change has no effect on the final index result but provides a clearer picture of the role of health insurance in the CPI. As part of the revision, three new indexes have been created by separating previously combined items, for example, eye care from other professional services, and inpatient and outpatient treatment from other hospital and medical care services.

For more information, see: Bureau of Labor Statistics, *Handbook of Methods*, BLS Bulletin 2285, U.S. Department of Labor, Washington, April 1988; I. K. Ford and P. Sturm. CPI revision provides more accuracy in the medical care services component, *Monthly Labor Review*, U.S. Department of Labor, Bureau of Labor Statistics, Washington, April 1988.

Employment and Earnings

The Division of Monthly Industry Employment Statistics and the Division of Employment and Unemployment Analysis of the Bureau of Labor Statistics publish data on employment and earnings. The data are collected by the U.S. Bureau of the Census, State Employment Security Agencies, and State Departments of Labor in cooperation with BLS.

The major data source is the Current Population Survey (CPS), a household interview survey conducted monthly by the U.S. Bureau of the Census to collect labor force data for BLS. CPS is described separately in this appendix. Data based on establishment records are also compiled each month from mail questionnaires by BLS, in cooperation with State agencies.

For more information, see: U.S. Department of Labor, Bureau of Labor Statistics, *Employment and Earnings, January 1992*, Vol. 39, No. 1, Washington, U.S. Government Printing Office, Jan. 1992.

Department of Veterans Affairs

Data are obtained from the Department of Veterans Affairs (VA) administrative data systems. These include budget information, patient treatment file, patient census file, and outpatient clinic file. Data from the three patient files are stored locally at each VA medical facility. At established intervals, data are transmitted to the national databank at the Austin Automated Center where they are compiled for nationwide statistics, reports, and comparisons.

The Patient Treatment File

The patient treatment file (PTF) collects data on each episode of inpatient care provided to patients including patients admitted to VA hospitals, VA nursing homes, and VA domiciliaries. In addition, when the Department of Veterans Affairs provides payments to non-VA hospitals and nursing homes, these episodes of care are entered into the PTF system. The PTF record

includes the patient's name, dates of inpatient treatment, social security number, date of birth, State and county of residence, as well as the ICD-9-CM diagnostic and procedure or operative codes for each episode of treatment.

The Patient Census File

The patient census file (census) collects data on each episode of inpatient care provided to patients who remain in the medical facility at midnight on a selected date of each year, normally September 30. This file includes patients admitted to VA hospitals, VA nursing homes, and VA domiciliaries. The census record includes the same information as reported on the patient treatment file record at the time of the patient's discharge.

The Outpatient Clinic File

The outpatient clinic file (OPC) collects data on each instance of medical treatment provided to a veteran in an outpatient setting. The OPC record includes the patient's name, date of birth, social security number, and VA eligibility. The purpose and type of treatment provided to the veteran during each episode of outpatient treatment is also recorded. This encompasses the medical treating specialty (for example, orthopedics, general surgery, or hypertension); diagnostic procedures and/or testing; date of visit and disposition after treatment.

For more information, write: Department of Veterans Affairs, Biometrics Division 008B22, 810 Vermont Ave., NW., Washington, DC 20420.

Environmental Protection Agency

National Aerometric Surveillance Network

The Environmental Protection Agency (EPA), through extensive monitoring of activities conducted by Federal, State, and local air pollution control agencies, collects data on the six pollutants for which National Ambient Air Quality Standards have been set. These pollution control agencies submit data quarterly to EPA's National Aerometric Data Bank (NADB). There are about 3,400 total stations reporting. Data from some short-term or sporadic monitoring for such purposes as special studies and complaint investigations are usually not included in NADB because the data are not extensive enough to provide equitable comparisons with routine data from permanent monitoring sites.

For more information, see: Environmental Protection Agency, *National Air Pollutant Emission Estimates, 1940-91*, EPA-450/R-92-013, Research Triangle Park, N.C., Oct. 1992, or write to Office of Air Quality Planning and Standards, Environmental Protection Agency, Research Triangle Park, N.C. 27711.

United Nations

Demographic Yearbook

The Statistical Office of the United Nations prepares the *Demographic Yearbook*, a comprehensive collection of international demographic statistics.

Questionnaires are sent annually and monthly to more than 220 national statistical services and other appropriate government offices. Data forwarded on these questionnaires are supplemented, to the extent possible, by data taken from official national publications and by correspondence with the national statistical services. To insure comparability, rates, ratios, and percentages have been calculated in the Statistical Office of the United Nations.

Lack of international comparability between estimates arises from differences in concepts, definitions, and time of data collection. The comparability of population data is affected by several factors, including (1) the definitions of the total population, (2) the definitions used to classify the population into its urban and rural components, (3) difficulties relating to age reporting, (4) the extent of over- or underenumeration, and (5) the quality of population estimates. The completeness and accuracy of vital statistics data also vary from one country to another. Differences in statistical definitions of vital events may also influence comparability.

For more information, see: United Nations, *Demographic Yearbook 1990*, Pub. No. ST/ESA/STAT/SER.R/18, United Nations, New York, NY, 1990.

World Health Statistics Annual

The World Health Organization (WHO) prepares the *World Health Statistics Annual*, an annual volume of information on vital statistics and causes of death designed for use by the medical and public health professions. Each volume is the result of a joint effort by the national health and statistical administrations of many countries, the United Nations, and WHO.

United Nations estimates of vital rates and population size and composition, where available, are reprinted directly in the *Statistics Annual*. For those countries for which the United Nations does not prepare demographic estimates, primarily smaller populations, the latest available data reported to the United Nations and based on reasonably complete coverage of events are used.

Information published on late fetal and infant mortality is based entirely on official national data either reported directly or made available to the World Health Organization.

Selected life table functions are calculated from the application of a uniform methodology to national mortality data provided to WHO, in order to enhance their value for international comparisons. The life table procedure used by WHO may often lead to discrepancies with national figures published by countries, due to differences in methodology or degree of age detail maintained in calculations.

The international comparability of estimates published in the *World Health Statistics Annual* is affected by the same problems discussed above for the *Demographic Yearbook*. Cross-national differences in statistical definitions of vital events, in the completeness and accuracy of vital statistics data, and in the comparability of population data are the primary factors affecting comparability.

For more information, see: World Health Organization, *World Health Statistics Annual 1991*, World Health Organization, Geneva, Switzerland, 1991.

Alan Guttmacher Institute

Abortion Survey

The Alan Guttmacher Institute (AGI) conducts an annual survey of abortion providers. Data are collected from hospitals, nonhospital clinics, and physicians identified as providers of abortion services. A universal survey of 3,092 hospitals, nonhospital clinics, and individual physicians was compiled. To assess the completeness of the provider and abortion counts, supplemental surveys were conducted of a sample of obstetrician-gynecologists and a sample of hospitals (not in original universe) that were identified as providing abortion services through the AHA survey.

The number of abortions estimated by AGI is about 20 percent more than the number reported to the Centers for Disease Control and Prevention.

For more information, write to: The Alan Guttmacher Institute, 111 5th Avenue, 11th Floor, New York, NY 10003-1089.

American Association of Colleges of Osteopathic Medicine

The American Association of Colleges of Osteopathic Medicine compiles data on various aspects of osteopathic medical education for distribution to the profession, the government, and the public.

Questionnaires are sent annually to all schools of osteopathic medicine requesting information on characteristics of applicants and students, curricula, faculty, grants, contracts, revenues, and expenditures. The response rate is 100 percent.

For more information, see: *Annual Statistical Report, 1991*, American Association of Colleges of Osteopathic Medicine, Rockville, Md., 1991.

American Dental Association

The Division of Educational Measurement of the American Dental Association conducts annual surveys of predoctoral dental educational institutions. The questionnaire, mailed to all dental schools, collects information on student characteristics, financial management, and curricula.

For more information, see: American Dental Association, *Annual Report on Dental Education 1990/91*, Chicago, Ill.

American Hospital Association

Annual Survey of Hospitals

Data from the American Hospital Association (AHA) annual survey are based on questionnaires that

were sent to all hospitals, both AHA-registered and nonregistered, in the United States and its associated areas. U.S. government hospitals located outside the United States were excluded. Questionnaires were mailed to all hospitals on AHA files. Overall, in 1991, 6,044 hospitals reported data, a response rate of 91 percent. For nonreporting hospitals and for the survey questionnaires of reporting hospitals on which some information was missing, estimates were made for all data except those on beds, bassinets, and facilities. Data for beds and bassinets of nonreporting hospitals were based on the most recent information available from those hospitals. Facilities and services and inpatient service area data include only reporting hospitals and, therefore, do not include estimates.

Estimates of other types of missing data were based on data reported the previous year, if available. When unavailable, the estimates were based on data furnished by reporting hospitals similar in size, control, major service provided, length of stay, and geographic and demographic characteristics.

Hospitals are requested to report data for the full year ending September 30. In the 1991 survey 36 percent of the responding hospitals used this reporting period; the remaining hospitals used various reporting periods.

For more information on the AHA Annual Survey of Hospitals, see: American Hospital Association, *Hospital Statistics, 1991-92 Edition, Data from the American Hospital Association 1991 Annual Survey*, Chicago, 1992.

American Medical Association

Physician Masterfile

A masterfile of physicians has been maintained by the American Medical Association (AMA) since 1906. Today, the Physician Masterfile contains data on almost every physician in the United States, members and nonmembers of AMA, and on those graduates of American medical schools temporarily practicing overseas. The file also includes graduates of international medical schools who are in the United States and meet education standards for primary recognition as physicians.

A file is initiated on each individual upon entry into medical school or, in the case of international graduates, upon entry into the United States. Between 1969-85 a mail questionnaire survey was conducted every 4 years to update the file information on professional activities, self-designated area of specialization, and present employment status. Since 1985 approximately one-third of all physicians are surveyed each year.

For more information on the AMA Physician Masterfile, see: Division of Survey and Data Resources, American Medical Association, *Physician Characteristics and Distribution in the U.S.*, 1992 edition, Chicago, 1992.

Annual Census of Hospitals

From 1920 to 1953 the Council on Medical Education and Hospitals of the American Medical

Association (AMA) conducted annual censuses of all hospitals registered by AMA.

In each annual census, questionnaires were sent to hospitals asking for the number of beds, bassinets, births, patients admitted, average census of patients, lists of staff doctors and interns, and other information of importance at the particular time. Response rates were always nearly 100 percent.

The community hospital data from 1940 and 1950 presented in this report were calculated using published figures from the AMA Annual Census of Hospitals. Although the hospital classification scheme used by AMA in published reports is not strictly comparable with the definition of community hospitals, methods were employed to achieve the greatest comparability possible.

For more information on the AMA Annual Census of Hospitals, see: American Medical Association, *Hospital service in the United States, Journal of the American Medical Association*, 116(11):1055-1144, 1941.

Association of American Medical Colleges

The AAMC collects information on student enrollment in medical schools through the annual Liaison Committee on Medical Education questionnaire, the fall enrollment questionnaire, and the American Medical College Application Service (AMCAS) data system. Other data sources are the institutional profile system, the premedical students questionnaire, the graduation questionnaire, the minority student opportunities in medicine questionnaire, the faculty roster system, data from the Medical College Admission Test, and one-time surveys developed for special projects.

For more information, see: Association of American Medical Colleges' *Data Book: Statistical Information Related to Medical Education*. Washington, DC, 1991.

InterStudy

National Health Maintenance Organization Census

From 1976 to 1980 the Office of Health Maintenance Organizations conducted a census of health maintenance organizations (HMO). Since 1981 InterStudy has conducted the census. A questionnaire is sent to all HMO's in the United States asking for updated enrollment, profit status, and Federal qualification status. New HMO's are also asked to provide information on model type. When necessary, information is obtained, supplemented, or clarified by telephone. For nonresponding HMO's, State-supplied information or the most current available data are used.

In 1985 a large increase in the number of HMO's and enrollment was partly attributable to a change in the categories of HMO's included in the census: Medicaid-only and Medicare-only HMO's have been added. Also component HMO's, which have their own discrete management, can be listed separately; whereas, previously the oldest HMO reported for all of its component or expansion sites, even when the components had different operational dates or were different model types.

For further information, see: InterStudy, *National HMO Census: Annual Report on the Growth of HMO's in the U.S., 1982-1986 Editions; The InterStudy Edge*, Spring 1987 and 1988 editions and 1989, 1990, volume 2. Excelsior, Minn., 1983-90.

National League for Nursing

The division of research of the National League for Nursing, conducts The Annual Survey of Schools of Nursing in October of each year. Questionnaires are sent to all graduate nursing programs (master's and doctoral), baccalaureate programs designed exclusively for registered nurses, basic registered nursing programs (baccalaureate, associate degree, and diploma), and licensed practical nursing programs. A 100-percent response rate has been achieved for many years on questionnaire items on enrollments, first-time admissions, and graduates. Response rates of approximately 80 percent are achieved for other areas of inquiry.

For more information, see: National League for Nursing, *Nursing Data Source 1991*, New York, N.Y.

Public Health Foundation

Association of State and Territorial Health Officials Reporting System

The Association of State and Territorial Health Officials (ASTHO) Reporting System, operated by the Public Health Foundation (PHF), is a statistical system that provides comprehensive information about the public health programs of State and local health departments. The Reporting System was established in 1970 by ASTHO in response to congressional requests for information about State health agency uses of block grant funds (that is, PHS Act, Section 314(d) grant monies). Data collected through the Reporting System are maintained in a comprehensive data base and are published in annual reports, chartbooks, and newsletters.

PHF, through the ASTHO Reporting System conducts an annual survey of the official State health agency (SHA) in each of the 50 States, the District of Columbia, and 4 U.S. territories. The survey includes extensive detail on the agencies' expenditures, funding sources, staffing, services, and activities.

Recently, PHF revised the ASTHO Reporting System's core data base to be outcome-oriented and focused on national health priorities. The new data base will provide the necessary data on States' efforts to meet the national objectives outlined by the Department of Health and Human Services in *Healthy People 2000: National Health Promotion and Disease Prevention Objectives*.

For more information, contact: Public Health Foundation, 1220 L Street, NW., Suite 350, Washington, DC 20005.

Appendix II

Glossary

Alphabetical Listing of Terms

The glossary is an alphabetical listing of terms used in *Health, United States*. It includes cross references to related terms and synonyms. It also contains the standard populations used for age adjustment and *International Classification of Diseases* (ICD) codes for cause of death and diagnostic and procedure categories.

Abortion — The Centers for Disease Control and Prevention's surveillance program counts legal abortions only. For surveillance purposes, legal abortion is defined as a procedure performed by a licensed physician or someone acting under the supervision of a licensed physician to induce the termination of a pregnancy.

Acquired immunodeficiency syndrome (AIDS) — All 50 States and the District of Columbia report AIDS cases to CDC using a uniform case definition and case report form. The case reporting definitions were expanded in 1985 (*MMWR* 1985; 34:373-5); 1987 (*MMWR* 1987; 36 (supp. no. 1S): 1S-15S); and 1993 (*MMWR* 1993; 41 (supp. no. RR-17)). These data are published quarterly by CDC in *HIV/AIDS Surveillance Report*. See related *Human immunodeficiency virus infection*.

Active physician — See *Physician*.

Acute condition — See *Condition*.

Addition — An addition to a psychiatric organization is defined by the National Institute of Mental Health as a new admission, a readmission, a return from leave, or a transfer from another service of the same organization or another organization. See related *Inpatient care episodes*; *Mental disorder*; *Mental health organization*; *Mental health service type*.

Admission — The American Hospital Association defines admissions as patients, excluding newborns, accepted for inpatient services during the survey reporting period. See related *Discharge*; *Patient*.

Age — Age is reported as age at last birthday, that is, age in completed years, often calculated by subtracting date of birth from the reference date, with the reference date being the date of the examination, interview, or other contact with an individual.

Age adjustment — Age adjustment, using the direct method, is the application of the age-specific rates in a population of interest to a standardized age distribution in order to eliminate the differences in observed rates that result from age differences in population composition. This adjustment is usually done when comparing two or more populations at one point in time or one population at two or more points in time.

In this report the death rates are age adjusted to the U.S. population enumerated in 1940. Computations may be simplified by expressing the 1940 U.S. population on a per million basis (table I). Adjustment is based on 11

Table I. Standard million age distribution used to adjust death rates to the U.S. population in 1940

| Age | Standard million |
|-----------------------------|---------------------|
| All ages | 1,000,000 |
| Under 1 year | 15,343 |
| 1-4 years | 64,718 |
| 5-14 years | 170,355 |
| 15-24 years | 181,677 |
| 25-34 years | 162,066 |
| 35-44 years | 139,237 |
| 45-54 years | 117,811 |
| 55-64 years | 80,294 |
| 65-74 years | 48,426 |
| 75-84 years | 17,303 |
| 85 years and over | 2,770 |

age groups with two exceptions. First, age-adjusted death rates for black males and black females in 1950 are based on nine age groups, with under 1 year and 1-4 years of age combined as one group and 75-84 years and 85 years of age and over combined as one group. Second, cause-specific provisional death rates are based on 10 age groups, with 1-4 years and 5-14 years of age combined as one group. Maternal mortality rates for Complications of pregnancy, childbirth, and the puerperium are calculated as the number of deaths per 100,000 live births. These rates are age adjusted to the 1970 distribution of live births by mother's age in the United States as shown in table II.

The data from the National Health Interview Survey (NHIS), National Health Examination Survey (NHES), National Health and Nutrition Examination Survey (NHANES), and the National Hospital Discharge Survey (NHDS) are age adjusted to the 1970 civilian noninstitutionalized population. Most of the data from the NHIS and NHDS are age adjusted using the following four age groups: under 15 years, 15-44 years, 45-64 years, and 65 years and over. The NHES and NHANES data are age adjusted using the following six age groups: 20-24 years, 25-34 years, 35-44 years, 45-54 years, 55-64 years, and 65-74 years. The 1970 civilian noninstitutionalized population used to age adjust data from each survey are shown in table III and derived as follows: Institutionalized population = (1 - proportion of total population not institutionalized on April 1, 1970) × total population on July 1, 1970. Civilian noninstitutionalized population = civilian population on July 1, 1970 - institutionalized population.

Table II. Numbers of live births and mother's age groups used to adjust maternal mortality rates to live births in the United States in 1970

| Mother's age | Number |
|-----------------------------|-----------|
| All ages | 3,731,386 |
| Under 20 years | 656,460 |
| 20-24 years | 1,418,874 |
| 25-29 years | 994,904 |
| 30-34 years | 427,806 |
| 35 years and over | 233,342 |

SOURCE: U.S. Bureau of the Census: Population estimates and projections. *Current Population Reports*. Series P-25, No. 499. Washington, U.S. Government Printing Office, May 1973.

Table III. Population and age groups used to adjust data to the U.S. civilian noninstitutionalized population in 1970: Selected surveys

| Survey and age | Number in thousands |
|-----------------------------|---------------------|
| NHIS and NHDS | |
| All ages | 199,584 |
| Under 15 years | 57,745 |
| 15-44 years | 81,189 |
| 45-64 years | 41,537 |
| 65 years and over | 19,113 |
| NHIS health care coverage | |
| 65 years and over | 19,113 |
| 65-74 years | 12,224 |
| 75 years and over | 6,889 |
| NHIS smoking data | |
| 18 years and over | 130,158 |
| 18-24 years | 22,464 |
| 25-34 years | 24,430 |
| 35-44 years | 22,614 |
| 45-64 years | 41,537 |
| 65 years and over | 19,113 |
| NHES and NHANES | |
| 20-74 years | 116,182 |
| 20-24 years | 15,378 |
| 25-34 years | 24,430 |
| 35-44 years | 22,614 |
| 45-54 years | 23,070 |
| 55-64 years | 18,467 |
| 65-74 years | 12,223 |

SOURCE: Calculated from U.S. Bureau of Census: Estimates of the Population of the United States by Age, Sex, and Race: 1970 to 1977. Population Estimates and Projections. *Current Population Reports*. Series P-25, No. 721, Washington. U.S. Government Printing Office, April 1978.

AIDS — See *Acquired immunodeficiency syndrome*.

Air pollution — See *Pollutant*.

Average annual rate of change (percent change) — In this report average annual rates of change or growth rates are calculated as follows:

$$((P_n / P_0)^{1/N} - 1) \times 100$$

where P_n = later time period

P_0 = earlier time period

N = number of years in interval.

This geometric rate of change assumes that a variable increases or decreases at the same rate during each year between the two time periods.

Average length of stay — In the National Health Interview Survey, the average length of stay per discharged patient is computed by dividing the total number of hospital days for a specified group by the total number of discharges for that group. Similarly, in the National Hospital Discharge Survey, the average length of stay is computed by dividing the total number of days of care, counting the date of admission but not the date of discharge, by the number of patients discharged. The American Hospital Association computes the average length of stay by dividing the number of inpatient days by the number of admissions.

As measured in the National Nursing Home Survey, length of stay for residents is the time from their

admission until the reporting time, and the length of stay for discharges is the time between the date of admission and the date of discharge. See related *Days of care*; *Discharge*; *Patient*; *Resident*.

Bed — Any bed that is set up and staffed for use by inpatients is counted as a bed in a facility. In the National Master Facility Inventory, the count is of beds at the end of the reporting period; for the American Hospital Association, it is of the average number of beds, cribs, and pediatric bassinets during the entire period. The World Health Organization defines a hospital bed as one regularly maintained and staffed for the accommodation and full-time care of a succession of inpatients and situated in a part of the hospital where continuous medical care for inpatients is provided. The National Institute of Mental Health counts the number of beds set up and staffed for use in inpatient and residential treatment services on the last day of the survey reporting period. See related *Hospital*; *Inpatient care episodes*; *Mental health organization*; *Mental health service type*; *Occupancy rate*.

Bed-disability day — See *Disability day*.

Birth cohort — A birth cohort consists of all persons born within a given period of time, such as a year.

Birth rate — See *Rate: Birth and related rates*.

Birth weight — The first weight of the newborn obtained after birth. Low birth weight is defined as less than 2,500 grams or 5 pounds 8 ounces. Before 1979 low birth weight was defined as 2,500 grams or less. Very low birth weight is defined as less than 1,500 grams or 3 pounds 4 ounces.

Cause of death — For the purpose of national mortality statistics, every death is attributed to one underlying condition, based on information reported on the death certificate and utilizing the international rules for selecting the underlying cause of death from the reported conditions. Beginning with 1979, the *International Classification of Diseases, Ninth Revision* (ICD-9) has been used for coding cause of death. Data from earlier time periods were coded using the appropriate revision of the ICD for that time period. (See tables IV and V.) Changes in classification of causes of death in successive revisions of the ICD may introduce discontinuities in cause-of-death statistics over time. For further discussion, see Technical Appendix in National Center for Health Statistics: *Vital Statistics of the United States, 1988, Volume II, Mortality, Part A*. DHHS Pub. No. (PHS) 91-1101, Public Health Service, Washington, U.S. Government Printing Office, 1991. See related *International Classification of Diseases, Ninth Revision*; *Human immunodeficiency virus infection*.

Cause-of-death ranking — Cause-of-death ranking is based on the List of 72 Selected Causes of Death and the category Human immunodeficiency virus infection (ICD-9 Nos. *042-*044). The List of 72 Selected Causes of Death was adapted from one of the special lists for mortality tabulations recommended by the World Health Organization for use with the Ninth Revision of the *International Classification of Diseases*. Two group

Table IV. Revision of the International Classification of Diseases, according to year of conference by which adopted and years in use in the United States

| Revision of the International Classification of Diseases | Year of conference by which adopted | Years in use in United States |
|--|-------------------------------------|-------------------------------|
| First..... | 1900 | 1900-1909 |
| Second..... | 1909 | 1910-1920 |
| Third..... | 1920 | 1921-1929 |
| Fourth..... | 1929 | 1930-1938 |
| Fifth..... | 1938 | 1939-1948 |
| Sixth..... | 1948 | 1949-1957 |
| Seventh..... | 1955 | 1958-1967 |
| Eighth..... | 1965 | 1968-1978 |
| Ninth..... | 1975 | 1979-present |

titles—Major cardiovascular diseases and Symptoms, signs, and ill-defined conditions—are not ranked. In addition, category titles that begin with the words “Other” and “All other” are not ranked. The remaining category titles are ranked according to number of deaths to determine the leading causes of death. When one of the titles that represents a subtotal is ranked (for example, unintentional injuries), its component parts are not ranked (in this case, motor vehicle crashes and all other unintentional injuries). See related *International Classification of Diseases, Ninth Revision*.

Civilian noninstitutionalized population; Civilian population — See *Population*.

Cocaine-related emergency room episodes — The Drug Abuse Warning Network monitors selected adverse medical consequences of cocaine and other drug abuse episodes by measuring contacts with hospital emergency rooms. Contacts may be for drug overdose, unexpected drug reactions, chronic abuse, detoxification, or other reasons in which drug use is known to have occurred.

Community hospitals — See *Hospital*.

Completed fertility rate — See *Rate: Birth and related rates*.

Condition — A health condition is a departure from a state of physical or mental well-being. An impairment is a health condition that includes chronic or permanent health defects resulting from disease, injury, or congenital malformations. All health conditions, except impairments, are coded according to the *International Classification of Diseases, Ninth Revision, Clinical Modification* (ICD-9-CM).

Based on duration, there are two categories of conditions, acute and chronic. In the National Health Interview Survey, an *acute condition* is a condition that has lasted less than 3 months and has involved either a physician visit (medical attention) or restricted activity. A *chronic condition* refers to any condition lasting 3 months or more or is a condition classified as chronic regardless of its time of onset (for example, diabetes,

Table V. Cause-of-death codes, according to applicable revision of International Classification of Diseases

| Cause of death | Code numbers | | | |
|---|----------------------|----------------------|------------------------------|--|
| | Sixth Revision | Seventh Revision | Eighth Revision | Ninth Revision |
| Diseases of heart..... | 400-402, 410-443 | 400-402, 410-443 | 390-398, 402, 404, 410-429 | 390-398, 402, 404-429 |
| Ischemic heart disease..... | ... | ... | ... | 410-414 |
| Cerebrovascular diseases..... | 330-334 | 330-334 | 430-438 | 430-438 |
| Malignant neoplasms..... | 140-205 | 140-205 | 140-209 | 140-208 |
| Respiratory system..... | 160-164 | 160-164 | 160-163 | 160-165 |
| Colorectal..... | 153-154 | 153-154 | 153-154 | 153,154 |
| Breast..... | 170 | 170 | 174 | 174,175 |
| Prostate..... | 177 | 177 | 185 | 185 |
| Chronic obstructive pulmonary diseases..... | 241, 501, 502, 527.1 | 241, 501, 502, 527.1 | 490-493, 519.3 | 490-496 |
| Pneumonia and influenza..... | 480-483, 490-493 | 480-483, 490-493 | 470-474, 480-486 | 480-487 |
| Chronic liver disease and cirrhosis..... | 581 | 581 | 571 | 571 |
| Diabetes mellitus..... | 260 | 260 | 250 | 250 |
| Nephritis, nephrotic syndrome, and nephrosis..... | ... | ... | ... | 580-589 |
| Septicemia..... | ... | ... | ... | 038 |
| Atherosclerosis..... | ... | ... | ... | 440 |
| Unintentional injuries ¹ | E800-E962 | E800-E962 | E800-E949 | E800-E949 |
| Motor vehicle crashes ¹ | E810-E835 | E810-E835 | E810-E823 | E810-E825 |
| Suicide..... | E963, E970-E979 | E963, E970-E979 | E950-E959 | E950-E959 |
| Homicide and legal intervention..... | E964, E980-E985 | E964, E980-E985 | E960-E978 | E960-E978 |
| Complications of pregnancy, childbirth, and the puerperium..... | 640-689 | 640-689 | 630-678 | 630-676 |
| Human immunodeficiency virus infection..... | ... | ... | ... | *042-*044 |
| Drug-induced causes..... | ... | ... | ... | 292, 304, 305.2-305.9, E850-E858, E950.0-E950.5, E962.0, E980.0-E980.5 |
| Alcohol-induced causes..... | ... | ... | ... | 291, 303, 305.0, 357.5, 425.5, 535.3, 571.0-571.3, 790.3, E860 |
| Firearm injuries..... | ... | ... | E922, E955, E965, E970, E985 | E922, E955.0-E955.4, E965.0-E965.4, E970, E985.0-E985.4 |
| Malignant neoplasm of peritoneum and pleura..... | ... | ... | 158, 163.0 | 158, 163 |
| Coalworkers' pneumoconiosis..... | ... | ... | 515.1 | 500 |
| Asbestosis..... | ... | ... | 515.2 | 501 |
| Silicosis..... | ... | ... | 515.0 | 502 |

¹In the public health community, the term “unintentional injuries” is preferred to “accidents and adverse effects” and “motor vehicle crashes” to “motor vehicle accidents.”

heart conditions, emphysema, and arthritis). The National Nursing Home Survey uses a specific list of chronic conditions, also disregarding time of onset. See related *Disability; Limitation of activity; International Classification of Diseases, Ninth Revision, Clinical Modification*.

Consumer Price Index (CPI) — The CPI is prepared by the U.S. Bureau of Labor Statistics. It is a monthly measure of the average change in the prices paid by urban consumers for a fixed market basket of goods and services. The medical care component of the CPI shows trends in medical care prices based on specific indicators of hospital, medical, dental, and drug prices. A revision of the definition of CPI has been in use since January 1988. See related *Health expenditures, national; Gross National Product*.

Crude birth rate; Crude death rate — See *Rate: Birth and related rates; Death and related rates*.

Days of care — According to the American Hospital Association and National Master Facility Inventory, days, hospital days, or inpatient days are the number of adult and pediatric days of care rendered during the entire reporting period. Days of care for newborns are excluded.

In the National Health Interview Survey, hospital days during the year refer to the total number of hospital days occurring in the 12-month period before the interview week. A hospital day is a night spent in the hospital for persons admitted as inpatients.

In the National Hospital Discharge Survey, days of care refers to the total number of patient days accumulated by patients at the time of discharge from nonfederal short-stay hospitals during a reporting period. All days from and including the date of admission but not including the date of discharge are counted. See related *Admission; Average length of stay; Discharge; Hospital; Patient*.

Death rate — See *Rate: Death and related rates*.

Dental visit — The National Health Interview Survey considers dental visits to be visits to a dentist's office for treatment or advice, including services by a technician or hygienist acting under the dentist's supervision. Services provided to hospital inpatients are not included. Dental visits are based on a 2-week recall period and are weighted to produce average annual number of visits.

Diagnosis — See *First-listed diagnosis*.

Diagnostic and other nonsurgical procedures — See *Procedure*.

Disability — In the National Health Interview Survey, a disability is any short- or long-term reduction of a person's activity as a result of an acute or chronic condition. It is often measured in terms of the number of days that a person's activity has been reduced. See related *Condition; Limitation of activity*.

Disability day — The National Health Interview Survey identifies several types of days on which a person's usual activity is reduced due to illness or injury

(reported for the 2-week period preceding the week of the interview). The following types of short-term disability days are not mutually exclusive categories:

A *restricted-activity day* is any day on which a person reduces his or her usual activities by more than one half day due to an illness or an injury.

Restricted-activity days are unduplicated counts of bed-disability, work-loss, and school-loss days, as well as other days during which a person reduces his or her usual activities.

A *bed-disability day* is a day on which a person stays in bed for more than half of the daylight hours (or normal waking hours) due to a specific illness or injury. All hospital days are bed-disability days. Bed-disability days may also be work-loss or school-loss days.

A *work-loss day* is a day on which a person did not work at his or her job or business for at least half of his or her normal workday due to a specific illness or injury. The number of work-loss days is determined only for currently employed persons.

A *school-loss day* is a day on which a child did not attend school for at least half of his or her normal school day due to a specific illness or injury.

Beginning in 1982 school-loss days are determined only for children 5–17 years of age.

Discharge — The National Health Interview Survey defines a hospital discharge as the completion of any continuous period of stay of 1 night or more in a hospital as an inpatient, not including the period of stay of a well newborn infant. According to the National Hospital Discharge Survey, American Hospital Association, and National Master Facility Inventory, discharge is the formal release of an inpatient by a hospital (excluding newborn infants), that is, the termination of a period of hospitalization (including stays of 0 nights) by death or by disposition to a place of residence, nursing home, or another hospital. In the National Nursing Home Survey, discharge is the formal release of a resident by a nursing home. See related *Admission; Average length of stay; Days of care; Patient; Resident*.

Domiciliary care homes — See *Nursing home*.

Expenditures — See *Health expenditures, national*.

Family income — For purposes of the National Health Interview Survey and National Health and Nutrition Examination Survey, all people within a household related to each other by blood, marriage, or adoption constitute a family. Each member of a family is classified according to the total income of the family. Unrelated individuals are classified according to their own income. Family income is the total income received by the members of a family (or by an unrelated individual) in the 12 months before the interview. Family income includes wages, salaries, rents from property, interest, dividends, profits and fees from their own businesses, pensions, and help from relatives. Family income has generally been categorized into approximate quintiles in the tables.

Federal physicians — See *Physician*.

Federal hospitals — See *Hospital*.

Fertility rate — See *Rate: Birth and related rates*.

Fetal death — In the World Health Organization's definition, also adopted by the United Nations and the National Center for Health Statistics, a fetal death is death prior to the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy; the death is indicated by the fact that after such separation, the fetus does not breathe or show any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles. For statistical purposes, fetal deaths are classified according to gestational age. In this report tabulations are shown for fetal deaths with stated or presumed gestation of 20 weeks or more and of 28 weeks or more, the latter gestational age group also known as late fetal deaths. See related *Live birth*; *Gestation*; *Rate: Death and related rates*.

First-listed diagnosis — In the National Hospital Discharge Survey this is the first recorded final diagnosis on the medical record face sheet (summary sheet).

Freestanding psychiatric outpatient clinics — See *Mental health organization*.

Full-time equivalent employee — The American Hospital Association and National Master Facility Inventory use an estimate of full-time equivalent employees in which two part-time employees are counted as one full-time employee. A full-time employee is defined as someone working 35 hours or more per week. The National Nursing Home Survey uses an estimate of full-time employees in which 35 hours of part-time employees' work per week is equivalent to one full-time employee. The National Institute of Mental Health calculates person-weeks of full-time equivalent employees by dividing the sum of hours worked by all full-time employees, part-time employees, and trainees in each staff discipline in 1 week by 40 hours per week.

General hospitals — See *Hospital*.

General hospitals providing separate psychiatric services — See *Mental health organization*.

Geographic division and region — The 50 States and the District of Columbia are grouped for statistical purposes by the U.S. Bureau of the Census into 9 geographic divisions within 4 regions. The groupings are as follows:

■ **Northeast**

New England

Maine, New Hampshire, Vermont,
Massachusetts, Rhode Island, and
Connecticut

Middle Atlantic

New York, New Jersey, and Pennsylvania

■ **Midwest**

East North Central

Ohio, Indiana, Illinois, Michigan, and
Wisconsin

West North Central

Minnesota, Iowa, Missouri, North Dakota,
South Dakota, Nebraska, and Kansas

■ **South**

South Atlantic

Delaware, Maryland, District of Columbia,
Virginia, West Virginia, North Carolina,
South Carolina, Georgia, and Florida

East South Central

Kentucky, Tennessee, Alabama, and
Mississippi

West South Central

Arkansas, Louisiana, Oklahoma, and Texas

■ **West**

Mountain

Montana, Idaho, Wyoming, Colorado, New
Mexico, Arizona, Utah, and Nevada

Pacific

Washington, Oregon, California, Alaska,
and Hawaii

Gestation — For the National Vital Statistics System and the Centers for Disease Control and Prevention's Abortion Surveillance, the period of gestation is defined as beginning with the first day of the last normal menstrual period and ending with the day of birth. See related *Abortion*; *Fetal death*; *Live birth*.

Gross National Product (GNP) and Gross Domestic Product (GDP) — These are two broadly comparable measures of a nation's total output of goods and services. GNP represents the value of all goods and services produced for sale by the nation plus the estimated value of certain imputed outputs (that is, goods and services that are neither bought nor sold). The GNP is the sum of: (1) consumption expenditures by individuals and nonprofit organizations plus certain imputed values; (2) business investment in equipment, inventories, and new construction; (3) federal, State, and local government purchases of goods and services; and (4) the sale of goods and services abroad minus purchases from abroad. GDP equals GNP plus an adjustment (typically small) for the value of productive services performed domestically by foreign-born workers minus the value of productive services performed abroad by U.S. nationals. See related *Health expenditures, national*.

Health expenditures, national — See related *Consumer Price Index*; *Gross National Product*.

Health services and supplies expenditures — These are outlays for goods and services relating directly to patient care plus expenses for administering health insurance programs and government public health activities. This category is equivalent to total national health expenditures minus expenditures for research and construction.

National health expenditures — This measure estimates the amount spent for all health services and supplies and health-related research and construction activities consumed in the United States during the calendar year. Detailed estimates are

available by source of expenditures (for example, out-of-pocket payments, private health insurance, and government programs), type of expenditures (for example, hospital care, physician services, and drugs), and are in current dollars for the year of report. Data are compiled from a variety of sources.

Nursing home expenditures — These cover care rendered in skilled nursing and intermediate care facilities, including those for the mentally retarded. The costs of long-term care provided by hospitals are excluded.

Personal health care expenditures — These are outlays for goods and services relating directly to patient care. The expenditures in this category are total national health expenditures minus expenditures for research and construction, expenses for administering health insurance programs, and government public health activities.

Private expenditures — These are outlays for services provided or paid for by nongovernmental sources—consumers, insurance companies, private industry, and philanthropic and other nonpatient care sources.

Public expenditures — These are outlays for services provided or paid for by federal, State, and local government agencies or expenditures required by governmental mandate (such as workmen's compensation insurance payments).

Health, self-assessment of — Health status was measured in the National Health Interview Survey by asking the respondent, "Would you say _____'s health is excellent, very good, good, fair, or poor?"

Health maintenance organization (HMO) — An HMO is a prepaid health plan delivering comprehensive care to members through designated providers, having a fixed monthly payment for health care services, and requiring members to be in plan for a specified period of time (usually 1 year). HMO model types are:

Group — An HMO that delivers health services through a physician group that is controlled by the HMO unit or an HMO that contracts with one or more independent group practices to provide health services.

Individual Practice Association (IPA) — An HMO that contracts directly with physicians in independent practice, and/or contracts with one or more associations of physicians in independent practice, and/or contracts with one or more multi-specialty group practices. The plan is predominantly organized around solo-single-specialty practices.

Mixed — An HMO that combines features of group and IPA.

Health services and supplies expenditures — See *Health expenditures, national*.

Hispanic origin — Hispanic ethnicity includes persons of Mexican, Puerto Rican, Cuban, Central and

South American, and other or unknown Spanish origins. Persons of Hispanic origin may be of any race. See related *Race*.

HIV — See *Human immunodeficiency virus infection*.

Hospital — According to the American Hospital Association and National Master Facility Inventory, hospitals are licensed institutions with at least six beds whose primary function is to provide diagnostic and therapeutic patient services for medical conditions by an organized physician staff, and have continuous nursing services under the supervision of registered nurses. The World Health Organization considers an establishment to be a hospital if it is permanently staffed by at least one physician, can offer inpatient accommodation, and can provide active medical and nursing care. Hospitals may be classified by type of service, ownership, size in terms of number of beds, and length of stay. See related *Average length of stay; Bed; Days of care; Patient*.

Community hospitals include all nonfederal short-stay hospitals classified by the American Hospital Association according to one of the following services: general medical and surgical; obstetrics and gynecology; eye, ear, nose, and throat; rehabilitation; orthopedic; other specialty; children's general; children's eye, ear, nose, and throat; children's rehabilitation; children's orthopedic; and children's other specialty.

Federal hospitals are operated by the Federal Government.

General hospitals provide diagnostic, treatment, and surgical services for patients with a variety of medical conditions. According to the World Health Organization, these hospitals provide medical and nursing care for more than one category of medical discipline (for example, general medicine, specialized medicine, general surgery, specialized surgery, and obstetrics). Excluded are hospitals, usually in rural areas, that provide a more limited range of care.

Long-term hospitals are defined by the American Hospital Association and the National Master Facility Inventory as hospitals in which more than half the patients are admitted to units with an average length of stay of 30 days or more.

Nonprofit hospitals are operated by a church or other nonprofit organization.

Proprietary hospitals are operated for profit by individuals, partnerships, or corporations.

Psychiatric hospitals are ones whose major type of service is psychiatric care. See *Mental health organization*.

Registered hospitals are hospitals registered with the American Hospital Association. About 98 percent of hospitals are registered.

Short-stay hospitals in the National Hospital Discharge Survey are those in which the average length of stay is less than 30 days. The American

Hospital Association and National Master Facility Inventory define short-term hospitals as hospitals in which more than half the patients are admitted to units with an average length of stay of less than 30 days. The National Health Interview Survey defines short-stay hospitals as any hospital or hospital department in which the type of service provided is general; maternity; eye, ear, nose, and throat; children's; or osteopathic.

Specialty hospitals, such as psychiatric, tuberculosis, chronic disease, rehabilitation, maternity, and alcoholic or narcotic, provide a particular type of service to the majority of their patients.

Hospital-based physician — See *Physician*.

Hospital days — See *Days of care*.

Human immunodeficiency virus (HIV) infection —

Mortality coding: Beginning with data for 1987, NCHS introduced category numbers *042-*044 for classifying and coding human immunodeficiency virus (HIV) infection as a cause of death. HIV infection was formerly referred to as human T-cell lymphotropic virus-III/lymphadenopathy-associated virus (HTLV-III/LAV) infection. The asterisk before the category numbers indicates that these codes are not part of the Ninth Revision of the *International Classification of Diseases* (ICD-9). Before 1987 deaths involving HIV infection were classified to Deficiency of cell-mediated immunity (ICD-9 No. 279.1) contained in the title All other diseases; to Pneumocystosis (ICD-9 No. 136.3) contained in the title All other infectious and parasitic diseases; to Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues; and to a number of other causes. Therefore, beginning with 1987, death statistics for HIV infection are not strictly comparable with data for earlier years.

Morbidity coding: The National Hospital Discharge Survey codes diagnosis data using the *International Classification of Diseases, Ninth Revision, Clinical Modification* (ICD-9-CM). During 1984 and 1985 only data for AIDS (ICD-9-CM 279.19) were included. Beginning with data for 1986 discharges with the diagnosis Human immunodeficiency virus (HIV) infection (ICD-9-CM 042-044, 279.19 and 795.8) were included. See related *Acquired immunodeficiency syndrome; Cause of death; International Classification of Diseases, Ninth Revision; International Classification of Diseases, Ninth Revision, Clinical Modification*.

ICD; ICD codes — See *Cause of death; International Classification of Diseases, Ninth Revision*.

Incidence — Incidence is the number of cases of disease having their onset during a prescribed period of time. It is often expressed as a rate (for example, the incidence of measles per 1,000 children 5-15 years of age during a specified year). Incidence is a measure of morbidity or other events that occur within a specified period of time. See related *Prevalence*.

Individual Practice Association (IPA) — See *Health maintenance organization*.

Industry of employment — Industries are classified according to the *Standard Industrial Classification (SIC)*

Table VI. Codes for industries, according to the *Standard Industrial Classification (SIC) Manual*

| <i>Industry</i> | <i>Code numbers</i> |
|---|---------------------|
| Agriculture, forestry, and fishing | 01-09 |
| Mining | 10-14 |
| Construction. | 15-17 |
| Manufacturing. | 20-39 |
| Textile mill products | 22 |
| Apparel and other finished products made from fabrics and similar materials | 23 |
| Lumber and wood products, except furniture | 24 |
| Printing, publishing, and allied industries | 27 |
| Chemicals and allied products | 28 |
| Rubber and miscellaneous plastics products | 30 |
| Stone, clay, glass, and concrete products | 32 |
| Primary metal industries | 33 |
| Fabricated metal products, except machinery and transportation equipment | 34 |
| Industrial and commercial machinery and computer equipment | 35 |
| Electronic and other electrical equipment and components, except computer equipment | 36 |
| Transportation equipment | 37 |
| Measuring, analyzing, and controlling instruments; photographic, medical, and optical goods; watches and clocks | 38 |
| Miscellaneous manufacturing industries | 39 |
| Transportation, communication, and public utilities | 40-49 |
| Wholesale trade | 50-51 |
| Retail trade | 52-59 |
| Finance, insurance, and real estate | 60-67 |
| Services | 70-89 |
| Public administration | 91-97 |

Manual of the Office of Management and Budget. Three editions of the SIC are used for coding industry data in Health, United States: the 1972 edition; the 1977 supplement to the 1972 edition; and the 1987 edition. The changes between versions include a few detailed titles created to correct or clarify industries or to recognize changes within the industry. Codes for major industrial divisions (table VI) were not changed between versions.

The category "Private sector" includes all industrial divisions except public administration and military. The category "Civilian sector" includes "Private sector" and the public administration division. The category "Not classified" is comprised of the following entries from the death certificate: housewife, student, or self-employed; information inadequate to code industry; establishments not elsewhere classified.

Infant death — An infant death is the death of a live-born child before his or her first birthday. Deaths in the first year of life may be further classified according to age as neonatal and postneonatal. *Neonatal deaths* are those that occur during the first 27 days of life; *postneonatal deaths* are those that occur between 28 days and 1 year of age. See *Live birth; Rate: Death and related rates*.

Inpatient care — See *Mental health service type*.

Inpatient care episodes — The National Institute of Mental Health defines episodes as the number of residents in inpatient organizations at the beginning of the year plus the total number of additions to these organizations during the year. Total additions during the year include new admissions and readmissions. In counting additions rather than persons, the same

individual may be counted more than once. For example, if the same person is admitted more than once to a particular organization during the year, that person is counted as many times as admitted. In addition, if the same person is admitted to two or more different organizations during the year, that person is counted as an addition for each organization. See related *Addition; Patient; Mental health service type*.

Inpatient days — See *Days of care*.

Intermediate care facilities — See *Nursing homes, certification of*.

International Classification of Diseases, Ninth Revision (ICD-9) — The *International Classification of Diseases (ICD)* classifies mortality information for statistical purposes. The ICD was first used in 1900 and has been revised about every 10 years since then. The ICD-9, published in 1977, is used to code U.S. mortality data beginning with data year 1979. (See tables IV and V.) See related *Cause of death; International Classification of Diseases, Ninth Revision, Clinical Modification*.

International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) — The ICD-9-CM is based on and is completely compatible with the *International Classification of Diseases, Ninth Revision*. The ICD-9-CM is used to code morbidity data and the ICD-9 is used to code mortality data. Diagnostic groupings and code number inclusions for ICD-9-CM are shown in table VII; surgical groupings and code number inclusions are shown in table VIII; and diagnostic and other nonsurgical procedure groupings and code number inclusions are shown in table IX. See related *Condition; International Classification of Diseases, Ninth Revision; Mental disorder*.

Table VII. Codes for diagnostic categories from the International Classification of Diseases, Ninth Revision, Clinical Modification

| Diagnostic category | Code numbers |
|--|--|
| Females with delivery | V27 |
| Human immunodeficiency virus (HIV) | 042-044, 279.19, 795.8 |
| Malignant neoplasms | 140-208, 230-234 |
| Benign neoplasms | 210-229, 235-239 |
| Diabetes | 250 |
| Psychoses | 290-299 |
| Alcohol dependence syndrome | 303 |
| Eye diseases and conditions | 360-379 |
| Otitis media and eustachian tube disorders | 381-382 |
| Diseases of heart | 391-392.0, 393-398, 402, 404, 410-416, 420-429 |
| Cerebrovascular diseases | 430-438 |
| Acute respiratory infection | 460-466 |
| Chronic disease of tonsils and adenoids | 474 |
| Pneumonia, all forms | 480-486 |
| Bronchitis, emphysema, and asthma | 490-493 |
| Inguinal hernia | 550 |
| Noninfectious enteritis and colitis | 555-556, 558 |
| Cholelithiasis | 574 |
| Hyperplasia of prostate | 600 |
| Inflammatory disease of female pelvic organs | 614-616 |
| Disorders of menstruation | 626 |
| Pregnancy with abortive outcome | 630-639 |
| Intervertebral disc disorders | 722 |
| Congenital anomalies | 740-759 |
| Fracture, all sites | 800-829 |
| Lacerations and open wounds | 870-904 |

Table VIII. Codes for surgical categories from the International Classification of Diseases, Ninth Revision, Clinical Modification

| Surgical category | Code numbers |
|--|--|
| Extraction of lens | 13.1-13.6 |
| Insertion of prosthetic lens (pseudophakos) | 13.7 |
| Myringotomy | 20.0 |
| Tonsillectomy, with or without adenoidectomy | 28.2-28.3 |
| Adenoidectomy without tonsillectomy | 28.6 |
| Direct heart revascularization (coronary bypass) | 36.1 |
| Cardiac catheterization | 37.21-37.23 |
| Pacemaker insertion or replacement | 37.7-37.8 |
| Biopsies on the digestive system (Beginning in 1989) | 42.24, 44.14, 44.15, 45.14, 45.15, 45.25, 45.27, 48.24, 48.26, 49.22, 49.23, 50.11, 50.12, 51.12, 51.14, 52.11, 52.12, 52.14, 54.22, 54.24 |
| Appendectomy, excluding incidental | 47.0 |
| Cholecystectomy | 51.2 |
| Repair of inguinal hernia | 53.0-53.1 |
| Prostatectomy | 60.2-60.6 |
| Circumcision | 64.0 |
| Oophorectomy and salpingo-oophorectomy | 65.3-65.6 |
| Bilateral destruction or occlusion of fallopian tubes | 66.2-66.3 |
| Hysterectomy | 68.3-68.7 |
| Diagnostic dilation and curettage of uterus | 69.09 |
| Procedures to assist delivery (Prior to 1989) | 72-73 |
| (Beginning in 1989) | 72, 73.0-73.3, 73.6-73.8, 73.93-73.99 |
| Cesarean section | 74.0-74.2, 74.4, 74.99 |
| Repair of current obstetrical laceration | 75.5-75.6 |
| Reduction of fracture (excluding skull, nose, and jaw) | 76.70, 76.78-76.79, 79.0-79.6 |
| Excision or destruction of intervertebral disc and spinal fusion | 80.5, 81.0 |
| Excision of semilunar cartilage of knee | 80.6 |
| Arthroplasty and replacement of hip (Prior to 1989) | 81.5-81.6 |
| (Beginning in 1990) | 81.40, 81.51-81.53 |
| Operations on muscles, tendons, fascia, and bursa | 82-83.1, 83.3-83.9 |
| Biopsies on the integumentary system (breast, skin, and subcutaneous tissue) | 85.11-85.12, 86.11 |
| Debridement of wound, infection, or burn | 86.22, 86.28 |

ICD-9 and ICD-9-CM are arranged in 17 main chapters. Most of the diseases are arranged according to their principal anatomical site, with special chapters for infective and parasitic diseases; neoplasms; endocrine, metabolic, and nutritional diseases; mental diseases; complications of pregnancy and childbirth; certain diseases peculiar to the perinatal period; and ill-defined conditions. In addition, two supplemental classifications are provided: the classification of factors influencing health status and contact with health service and the classification of external causes of injury and poisoning.

Late fetal death rate — See *Rate: Death and related rates*.

Leading causes of death — See *Cause-of-death ranking*.

Length of stay — See *Average length of stay*.

Life expectancy — Life expectancy is the average number of years of life remaining to a person at a particular age and is based on a given set of age-specific death rates, generally the mortality conditions existing in the period mentioned. Life expectancy may be determined by race, sex, or other characteristics using age-specific death rates for the population with that characteristic. See related *Rate: Death and related rates*.

Table IX. Codes for diagnostic and other nonsurgical procedure categories from the International Classification of Diseases, Ninth Revision, Clinical Modification

| Procedure category | Code numbers |
|---|--------------------------------------|
| Spinal tap | 03.31 |
| Endoscopy of small intestine without biopsy | 45.11-45.13 |
| Endoscopy of large intestine without biopsy | 45.21-45.24 |
| Laparoscopy (excluding that for ligation and division of fallopian tubes) | 54.21 |
| Cystoscopy | 57.31-57.32 |
| Arthroscopy of knee | 80.26 |
| Computerized axial tomography (CAT scan) | 87.03, 87.41, 87.71, 88.01, 88.38 |
| Contrast myelogram | 87.21 |
| Biliary tract x ray | 87.5 |
| Arteriography using contrast material | 88.4 |
| Angiocardiography using contrast material | 88.5 |
| Diagnostic ultrasound | 88.7 |
| Electroencephalogram | 89.14 |
| Radioisotope scan | 92.0-92.1 |

Limitation of activity — In the National Health Interview Survey, limitation of activity refers to a long-term reduction in a person's capacity to perform the usual kind or amount of activities associated with his or her age group. Each person identified as having a chronic condition is classified according to the extent to which his or her activities are limited, as follows:

- Persons unable to carry on major activity;
- Persons limited in the amount or kind of major activity performed;
- Persons not limited in major activity but otherwise limited; and
- Persons not limited in activity.

See related *Condition; Disability; Major activity*.

Live birth — In the World Health Organization's definition, also adopted by the United Nations and the National Center for Health Statistics, a live birth is the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of the pregnancy, which, after such separation, breathes or shows any other evidence of life such as heartbeat, umbilical cord pulsation, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached. Each product of such a birth is considered live born. See related *Gestation; Rate: Birth and related rates*.

Live-birth order — In the National Vital Statistics System this item from the birth certificate refers to the total number of live births the mother has had, including the present birth as recorded on the birth certificate. Fetal deaths are excluded. See related *Live birth*.

Long-term hospital — See *Hospital*.

Low birth weight — See *Birth weight*.

Major activity (or usual activity) — This is the principal activity of a person or of his or her age-sex group. For children 1-5 years of age, it refers to ordinary play with other children; for children 5-17 years of age, it refers to school attendance; for adults 18 years of age and over, it usually refers to a job, housework, or school attendance. See related *Limitation of activity*.

Marital status — Marital status is classified through self-reporting into the categories married and unmarried. The term married encompasses all married people including those separated from their spouses. Unmarried includes those who are single (never married), divorced, or widowed. The Abortion Surveillance Reports of the Centers for Disease Control and Prevention classify separated people as unmarried for all States except Rhode Island.

Maternal mortality rate — See *Rate: Death and related rates*.

Medicaid — This program is State operated and administered but has federal financial participation. Within certain broad federally-determined guidelines, States decide who is eligible; the amount, duration, and scope of services covered; rates of payment for providers; and methods of administering the program. Medicaid provides health care services for certain low-income persons. Medicaid does not provide health services to all poor people in every State. It categorically covers participants in the Aid to Families with Dependent Children program and in the Supplemental Security Income program. In most States it also covers certain other people deemed to be medically needy. The program was authorized in 1965 by Title XIX of the Social Security Act. See related *Health expenditures, national; Health maintenance organization; and Medicare*.

Medical specialties — See *Physician specialty*.

Medical vendor payments — Under the Medicaid program, medical vendor payments are payments (expenditures) to medical vendors from the State through a fiscal agent, or to a health insurance plan. Adjustments are made for Indian Health Service payments to Medicaid, cost settlements, third party recoupments, refunds, voided checks, and other financial settlements that cannot be related to specific provided claims. Excluded are payments made for medical care under the emergency assistance provisions, payments made from State medical assistance funds that are not federally matchable, cost sharing or enrollment fees collected from recipients or a third party, and administration and training costs.

Medicare — This is a nationwide health insurance program providing health insurance protection to people 65 years of age and over, people entitled to social security disability payments for 2 years or more, and people with end-stage renal disease, regardless of income. The program was enacted July 30, 1965, as Title XVIII, *Health Insurance for the Aged* of the Social Security Act, and became effective on July 1, 1966. It consists of two separate but coordinated programs, hospital insurance (Part A) and supplementary medical insurance (Part B). See related *Health expenditures, national; Health maintenance organization; Medicaid*.

Mental disorder — The National Institute of Mental Health defines a mental disorder as any of several disorders listed in the *International Classification of Diseases, Ninth Revision, Clinical Modification* (ICD-9-CM) or *Diagnostic and Statistical Manual of Mental Disorders, Third Edition* (DSM-IIIR). Table X

Table X. Mental illness codes, according to applicable revision of the *Diagnostic and Statistical Manual of Mental Disorders* and *International Classification of Diseases*

| <i>Diagnostic category</i> | <i>DSM-II/ICDA-8</i> | <i>DSM-IIIR/ICD-9-CM</i> |
|--|---|-----------------------------------|
| Alcohol related | 291; 303; 309.13 | 291; 303; 305.0 |
| Drug related | 294.3; 304; 309.14 | 292; 304; 305.1–305.9; 327; 328 |
| Organic disorders (other than alcoholism and drug) | 290; 292; 293; 294 (except 294.3); 309.0; 309.2–309.9 | 290; 293; 294; 310 |
| Affective disorders | 296; 298.0; 300.4 | 296; 298.0; 300.4; 301.11; 301.13 |
| Schizophrenia. | 295 | 295; 299 |

shows diagnostic categories and code numbers for ICD-9-CM/DSM-IIIR and corresponding codes for the *International Classification of Diseases, Adapted for Use in the United States, Eighth Revision* (ICDA-8) and *Diagnostic and Statistical Manual of Mental Disorders, Second Edition* (DSM-II). See related *International Classification of Diseases, Ninth Revision, Clinical Modification*.

Mental health organization — The National Institute of Mental Health defines a mental health organization as an administratively distinct public or private agency or institution whose primary concern is the provision of direct mental health services to the mentally ill or emotionally disturbed. The major types of mental health organizations are described below.

Freestanding psychiatric outpatient clinics provide only ambulatory mental health services on either a regular or emergency basis. The medical responsibility for services is generally assumed by a psychiatrist.

General hospitals providing separate psychiatric services are general hospitals that provide psychiatric services in either a separate psychiatric inpatient, outpatient, or partial hospitalization service with assigned staff and space.

Multiservice mental health organizations directly provide two or more of the program elements defined under Mental health service type and are not classifiable as a psychiatric hospital, general hospital, or a residential treatment center for emotionally disturbed children. (The classification of a psychiatric or general hospital or a residential treatment center for emotionally disturbed children takes precedence over a multiservice classification, even if two or more services are offered.)

Partial care organizations provide a program of ambulatory mental health services.

Private mental hospitals are operated by a sole proprietor, partnership, limited partnership, corporation, or nonprofit organization, primarily for the care of persons with mental disorders.

Psychiatric hospitals are hospitals primarily concerned with providing inpatient care and treatment for the mentally ill. Psychiatric inpatient units of Veterans Administration general hospitals and Veterans Administration neuropsychiatric hospitals are combined into the category Veterans Administration psychiatric hospitals because of their similarity in size, operation, and length of stay.

Residential treatment centers for emotionally disturbed children must meet all of the following criteria: (a) Not licensed as a psychiatric hospital and primary purpose is to provide individually-planned mental health treatment services in conjunction with residential care; (b) Include a clinical program that is directed by a psychiatrist, psychologist, social worker, or psychiatric nurse with a graduate degree; (c) Serve children and youth primarily under the age of 18; and (d) Primary diagnosis for the majority of admissions is mental illness, classified as other than mental retardation, developmental disability, and substance-related disorders, according to DSM-II/ICDA-8 or DSM-IIIR/ ICD-9-CM codes. See related table X and *Mental disorder*.

State and county mental hospitals are under the auspices of a State or county government or operated jointly by a State and county government.

See related *Addition; Inpatient care episode; Mental health service type*.

Mental health service type refers to the following kinds of mental health services:

Inpatient care is the provision of 24-hour mental health care in a mental health hospital setting.

Outpatient care is the provision of ambulatory mental health services for less than 3 hours at a single visit on an individual, group, or family basis, usually in a clinic or similar organization. Emergency care on a walk-in basis, as well as care provided by mobile teams who visit patients outside these organizations are included. "Hotline" services are excluded.

Partial care treatment is a planned program of mental health treatment services generally provided in visits of 3 or more hours to groups of patients. Included are treatment programs that emphasize intensive short-term therapy and rehabilitation; programs that focus on recreation, and/or occupational program activities, including sheltered workshops; and education and training programs, including special education classes, therapeutic nursery schools, and vocational training.

Residential treatment care is the provision of overnight mental health care in conjunction with an intensive treatment program in a setting other than a hospital. Facilities may offer care to emotionally disturbed children or mentally ill adults.

See related *Addition; Inpatient care episode; Mental health organization*.

Metropolitan statistical area (MSA) — The definitions and titles of MSA's are established by the U.S. Office of Management and Budget with the advice of the Federal Committee on Metropolitan Statistical Areas. Generally speaking, an MSA consists of a county or group of counties containing at least one city (or twin cities) having a population of 50,000 or more plus adjacent counties that are metropolitan in character and are economically and socially integrated with the central city. In New England, towns and cities rather than counties are the units used in defining MSA's. There is no limit to the number of adjacent counties included in the MSA as long as they are integrated with the central city. Nor is an MSA limited to a single state; boundaries may cross state lines. Metropolitan population, as used in this report, is based on MSA's as defined in the 1980 census and does not include any subsequent additions or changes.

Multiservice mental health organizations — See *Mental health organization*.

Neonatal mortality rate — See *Rate: Death and related rates*.

Nonfederal physicians — See *Physician*.

Nonprofit hospitals — See *Hospital*.

Notifiable disease — A notifiable disease is one that, when diagnosed, health providers are required, usually by law, to report to State or local public health officials. Notifiable diseases are those of public interest by reason of their contagiousness, severity, or frequency.

Nursing care — The following definition of nursing care applies to data collected in National Nursing Home Surveys through 1977. Nursing care is the provision of any of the following services: application of dressings or bandages; bowel and bladder retraining; catheterization; enema; full bed bath; hypodermic, intramuscular, or intravenous injection; irrigation; nasal feeding; oxygen therapy; and temperature-pulse-respiration or blood pressure measurement. See related *Nursing home*.

Nursing care homes — See *Nursing home*.

Nursing home — A nursing home is an establishment with three or more beds that provides nursing or personal care services to the aged, infirm, or chronically ill. The following definitions of nursing home types apply to data collected in National Nursing Home Surveys through 1977.

Nursing care homes must employ one or more full-time registered or licensed practical nurses and must provide nursing care to at least half the residents.

Personal care homes with nursing have some but fewer than half the residents receiving nursing care. In addition, such homes must employ one or more registered or licensed practical nurses or must provide administration of medications and treatments in accordance with physicians' orders, supervision of self-administered medications, or three or more personal services.

Personal care homes without nursing have no residents who are receiving nursing care. These homes provide administration of medications and treatments in accordance with physicians' orders, supervision of self-administered medications, or three or more personal services.

Domiciliary care homes primarily provide supervisory care but also provide one or two personal services.

Nursing homes are certified by the Medicare and/or Medicaid program. The following definitions of certification levels apply to data collected in National Nursing Home Surveys of 1973-74, 1977, and 1985.

Skilled nursing facilities provide the most intensive nursing care available outside of a hospital. Facilities certified by Medicare provide posthospital care to eligible Medicare enrollees. Facilities certified by Medicaid as skilled nursing facilities provide skilled nursing services on a daily basis to individuals eligible for Medicaid benefits.

Intermediate care facilities are certified by the Medicaid program to provide health-related services on a regular basis to Medicaid eligibles who do not require hospital or skilled nursing facility care but do require institutional care above the level of room and board.

Not certified facilities are not certified as providers of care by Medicare or Medicaid.

See related *Nursing care*; *Resident*.

Nursing home expenditures — See *Health expenditures, national*.

Occupancy rate — The National Master Facility Inventory and American Hospital Association define hospital occupancy rate as the average daily census divided by the average number of hospital beds during a reporting period. Average daily census is defined by the American Hospital Association as the average number of inpatients, excluding newborns, receiving care each day during a reporting period. The occupancy rate for facilities other than hospitals is calculated as the number of residents reported at the time of the interview divided by the number of beds reported.

Office — In the National Health Interview Survey, an office refers to the office of any physician in private practice not located in a hospital. In the National Ambulatory Medical Care Survey, an office is any location for a physician's ambulatory practice other than hospitals, nursing homes, other extended care facilities, patients' homes, industrial clinics, college clinics, and family planning clinics. However, private offices in hospitals are included. See related *Office visit*; *Outpatient visit*; *Physician*; *Physician contact*.

Office-based physician — See *Physician*.

Office visit — In the National Ambulatory Medical Care Survey, an office visit is any direct personal exchange between an ambulatory patient and a physician or members of his or her staff for the purposes of

seeking care and rendering health services. See related *Outpatient visit; Physician contact*.

Operations — See *Procedure*.

Outpatient surgery — The American Hospital Association defines outpatient surgery as scheduled surgical services provided to patients who do not remain in the hospital overnight. The surgery may be performed in operating suites also used for inpatient surgery, specially designated surgical suites for ambulatory surgery, or procedure rooms within an ambulatory care facility. Ambulatory surgery conducted in the private office of a physician not located in a hospital is not included in the American Hospital Association's reporting system. See related *Procedure*.

Outpatient visit — The American Hospital Association defines outpatient visits as visits for receipt of medical, dental, or other services by patients who are not lodged in the hospital. Each appearance by an outpatient to each unit of the hospital is counted individually as an outpatient visit. See related *Office; Office visit; Physician contact*.

Partial care organization — See *Mental health organization*.

Partial care treatment — See *Mental health service type*.

Particulate matter — Particulate matter is defined as particles of solid or liquid matter in the air, including both nontoxic materials (soot, dust, and dirt) and toxic materials (lead, asbestos, suspended sulfates and nitrates, etc.). See related *Pollutant*.

Patient — A patient is a person who is formally admitted to the inpatient service of the hospital for observation, care, diagnosis, or treatment. See related *Admission; Average length of stay; Days of care; Discharge*.

Percent change — See *Average annual rate of change*.

Perinatal mortality rate, ratio — See *Rate: Death and related rates*.

Personal care homes with/without nursing — See *Nursing home*.

Personal health care expenditures — See *Health expenditures, national*.

Physician — Physicians, through self-reporting, are classified by the American Medical Association and others as licensed doctors of medicine or osteopathy, as follows:

Active (or professionally active) physicians are currently practicing medicine, regardless of the number of hours worked per week.

Federal physicians are employed by the Federal Government; *nonfederal* or *civilian physicians* are not.

Office-based physicians spend the plurality of their time working in practices based in private offices.

Hospital-based physicians spend the plurality of their time as salaried physicians in hospitals.

Data for physicians are presented by type of education (doctors of medicine, doctors of osteopathy); place of education (U.S. medical graduates and international medical graduates); activity status (professionally active and inactive); employment setting (federal and nonfederal); area of specialty; and geographic area. See related *Office; Physician specialty*.

Physician contact — In the National Health Interview Survey, a physician contact is defined as a consultation with a physician in person or by telephone, for examination, diagnosis, treatment, or advice. The service may be provided by the physician or by another person working under the physician's supervision. Contacts involving services provided on a mass basis (for example, blood pressure screenings) and contacts for hospital inpatients are not included.

Place of contact includes office, hospital outpatient clinics, emergency room, telephone (advice given by a physician in a telephone call), home (any place in which a person was staying at the time a physician was called there), clinics, HMO's, and other places located outside a hospital.

In the National Health Interview Survey, physician contacts are based on a 2-week recall period and are adjusted to produce average annual number of visits. The interval since the last physician contact is the length of time before the week of interview in which the physician was last consulted. See related *Office; Office visit*.

Physician specialty — A physician specialty is any specific branch of medicine in which a physician may concentrate. Data are based on physician reports of their specialty. The specialty classification system used by the Bureau of Health Professions and National Ambulatory Medical Care Survey (NAMCS) is based on the categories established by the American Medical Association.

Primary care specialties include general practice (or family practice), internal medicine, and pediatrics.

Medical specialties include, along with internal medicine and pediatrics, the areas of allergy, cardiovascular disease, dermatology, gastroenterology, pediatric allergy and cardiology, and pulmonary diseases.

Surgical specialties include general surgery, neurological surgery, obstetrics and gynecology, ophthalmology, orthopedic surgery, otolaryngology, plastic surgery, colon and rectal surgery, thoracic surgery, and urology.

Other specialties covered by NAMCS are geriatrics, neurology, preventive medicine, psychiatry, and public health. Other specialties covered by the Bureau of Health Professions are aerospace medicine, anesthesiology, child psychiatry, neurology, occupational medicine, pathology, physical medicine and rehabilitation, psychiatry, public health, and radiology.

See related *Physician*.

Pollutant — A pollutant is any substance that renders the atmosphere or water foul or noxious to health. See related *Particulate matter*.

Population — The U.S. Bureau of the Census collects and publishes data on populations in the United States according to several different definitions. Various statistical systems then use the appropriate population for calculating rates.

Total population is the population of the United States, including all members of the Armed Forces living in foreign countries, Puerto Rico, Guam, and the U.S. Virgin Islands. Other Americans abroad (for example, civilian federal employees and dependents of members of the Armed Forces or other federal employees) are not included.

Resident population is the population of U.S. residents living in the United States. It includes members of the Armed Forces stationed in the United States and their families. It excludes international military, naval, and diplomatic personnel and their families located here and residing in embassies or similar quarters. Also excluded are international workers and international students in this country and Americans living abroad. The resident population is usually the denominator when calculating birth and death rates and incidence of disease.

Civilian population is the resident population excluding members of the Armed Forces. However, families of members of the Armed Forces are included. This population is the denominator in rates calculated for the NCHS National Hospital Discharge Survey.

Civilian noninstitutionalized population is the civilian population not residing in institutions. Institutions include correctional institutions, detention homes, and training schools for juvenile delinquents; homes for the aged and dependent (for example, nursing homes and convalescent homes); homes for dependent and neglected children; homes and schools for the mentally or physically handicapped; homes for unwed mothers; psychiatric, tuberculosis, and chronic disease hospitals; and residential treatment centers. This population is the denominator in rates calculated for the NCHS National Health Interview Survey, National Health and Nutrition Examination Survey, and National Ambulatory Medical Care Survey.

Postneonatal mortality rate — See *Rate: Death and related rates*.

Poverty level — Poverty statistics are based on definitions developed by the Social Security Administration. These include a set of money income thresholds that vary by family size and composition. Families or individuals with income below their appropriate thresholds are classified as below the poverty level. These thresholds are updated annually to reflect changes in the Consumer Price Index for all urban consumers (CPI-U). For example, the average poverty

threshold for a family of four was \$13,924 in 1991 and \$13,359 in 1990. See related *Consumer Price Index*.

Prevalence — Prevalence is the number of cases of a disease, infected persons, or persons with some other attribute present during a particular interval of time. It is often expressed as a rate (for example, the prevalence of diabetes per 1,000 persons during a year). See related *Incidence*.

Primary care specialties — See *Physician specialty*.

Private expenditures — See *Health expenditures, national*.

Procedure — The National Hospital Discharge Survey (NHDS) defines a procedure as a surgical or nonsurgical operation, diagnostic procedure, or special treatment assigned by the physician and recorded on the medical record of patients discharged from the inpatient service of short-stay hospitals. All terms listed on the face sheet of the medical record under captions such as "operation," "operative procedures," and "operations and/or special treatments" are transcribed in the order listed. A maximum of four 4-digit ICD-9-CM codes are assigned per discharge. In accordance with ICD-9-CM coding, procedures are classified as diagnostic and other nonsurgical procedures or as surgical operations.

Diagnostic and other nonsurgical procedures are procedures generally not considered to be surgery. These include diagnostic endoscopy and radiography, radiotherapy and related therapies, physical medicine and rehabilitation, and other nonsurgical procedures. In 1989 the list of nonsurgical procedures was revised to include selected procedures previously classified as surgical. Selected diagnostic and other non-surgical procedures are listed with their ICD-9-CM code numbers in table IX. For further discussion, see National Hospital Discharge Survey: Annual Summary, 1989. National Center for Health Statistics. Vital Health Stat 13(109). 1992.

Surgical operations encompass all ICD-9-CM procedures, except those listed under "Nonsurgical procedures." Selected surgical operations are listed with their ICD-9-CM codes in table VIII. In 1989 the list of surgical operations was revised and certain procedures previously classified as surgical were reclassified as diagnostic and other nonsurgical. The American Hospital Association defines surgery as a surgical episode in the operating or procedure room. During a single episode, multiple surgical procedures may be performed.

See related *International Classification of Diseases, Ninth Revision, Clinical Modification; Outpatient surgery*.

Proprietary hospitals — See *Hospital*.

Provisional death rates — See *Rate: Death and related rates*.

Psychiatric hospitals — See *Hospital; Mental health organization*.

Public expenditures — See *Health expenditures, national*.

Race — Beginning in 1976 the Federal Government's data systems classified individuals into the following racial groups: American Indian or Alaskan Native, Asian or Pacific Islander, Black, and White. Depending on the data source, the classification by race may be based on self-classification or on observation by an interviewer or other persons filling out the questionnaire. Starting in 1989 data from the National Vital Statistics System for newborn infants was tabulated according to race of mother. Before 1989 race of newborn was based on race of both parents. If the parents were of different races and one parent was white, the child was classified according to the race of the other parent. When neither parent was white, the child was classified according to father's race, with one exception; if either parent was Hawaiian, the child was classified Hawaiian. Before 1964 the National Vital Statistics System classified all births for which race was unknown as white. Beginning in 1964 these births were classified according to information on the previous record. In the National Health Interview Survey, children whose parents are of different races are classified according to the race of the mother. See related *Hispanic origin*.

Rate — A rate is a measure of some event, disease, or condition in relation to a unit of population, along with some specification of time. See related *Age adjustment*; *Population*.

■ Birth and related rates

Birth rate is calculated by dividing the number of live births in a population in a year by the mid-year resident population. It is expressed as the number of live births per 1,000 population. The rate may be restricted to births to women of specific age, race, marital status, or geographic location (specific rate), or it may be related to the entire population (crude rate). See related *Live birth*.

Fertility rate is the number of live births per 1,000 women of reproductive age, 15–44 years.

Completed fertility rate is the sum of the central birth rates over all ages (14–49 years) of childbearing for a given birth cohort.

■ Death and related rates

Death rate is calculated by dividing the number of deaths in a population in a year by the mid-year resident population. It is expressed as the number of deaths per 1,000 or per 100,000 population. The rate may be restricted to deaths in specific age, race, sex, or geographic groups or from specific causes of death (specific rate) or it may be related to the entire population (crude rate).

Provisional death rate — See *National Vital Statistics System* in Appendix I.

Fetal death rate is the number of fetal deaths with stated or presumed gestation of 20 weeks or more divided by the sum of live births plus fetal deaths, stated per 1,000 live births plus fetal deaths. **Late fetal death rate** is the number of fetal deaths with

stated or presumed gestation of 28 weeks or more divided by the sum of live births plus late fetal deaths, stated per 1,000 live births plus late fetal deaths. See related *Fetal death*; *Gestation*.

Infant mortality rate is calculated by dividing the number of infant deaths during a year by the number of live births reported in the same year. It is expressed as the number of infant deaths per 1,000 live births. **Neonatal mortality rate** is the number of deaths of children under 28 days of age, per 1,000 live births. **Postneonatal mortality rate** is the number of deaths of children that occur between 28 days and 365 days after birth, per 1,000 live births. See related *Infant death*.

Perinatal relates to the period surrounding the birth event. Rates and ratios are based on events reported in a calendar year. **Perinatal mortality rate** is the sum of late fetal deaths plus infant deaths within 7 days of birth divided by the sum of live births plus late fetal deaths, stated per 1,000 live births plus late fetal deaths. **Perinatal mortality ratio** is the sum of late fetal deaths plus infant deaths within 7 days of birth divided by the number of live births, stated per 1,000 live births. **Feto-infant mortality rate** is the sum of late fetal deaths plus all infant deaths divided by the sum of live births plus late fetal deaths, stated per 1,000 live births plus late fetal deaths. See related *Fetal death*; *Gestation*; *Infant death*; *Live birth*.

Maternal death is one for which the certifying physician has designated a maternal condition as the underlying cause of death. Maternal conditions are those assigned to Complications of pregnancy, childbirth, and the puerperium. (See related table V.) **Maternal mortality rate** is the number of maternal deaths per 1,000 live births. The maternal mortality rate indicates the likelihood that a pregnant woman will die from maternal causes. The number of live births used in the denominator is an approximation of the population of pregnant women who are at risk of a maternal death.

Region — See *Geographic division and region*.

Registered hospitals — See *Hospital*.

Registered nursing education — Registered nursing data are shown by level of educational preparation. Baccalaureate education requires at least 4 years of college or university; associate degree programs are based in community colleges and are usually 2 years in length; and diploma programs are based in hospitals and are usually 3 years in length.

Registration area — The United States has separate registration areas for birth, death, marriage, and divorce statistics. In general, registration areas correspond to States and include two separate registration areas for the District of Columbia and New York City. All States have adopted laws that require the registration of births and deaths and the reporting of fetal deaths. It is believed that more than 99 percent of the births and deaths occurring in this country are registered.

The *death registration area* was established in 1900 with 10 States and the District of Columbia, and the *birth registration area* was established in 1915, also with 10 States and the District of Columbia. Both areas have covered the entire United States since 1933. Currently, Puerto Rico, U.S. Virgin Islands, and Guam comprise separate registration areas, although their data are not included in statistical tabulations of U.S. resident data. See related *Reporting area*.

Relative survival rate — The relative survival rate is the ratio of the observed survival rate for the patient group to the expected survival rate for persons in the general population similar to the patient group with respect to age, sex, race, and calendar year of observation. The 5-year relative survival rate is used to estimate the proportion of cancer patients potentially curable. Because over half of all cancers occur in persons 65 years of age and over, many of these individuals die of other causes with no evidence of recurrence of their cancer. Thus, because it is obtained by adjusting observed survival for the normal life expectancy of the general population of the same age, the relative survival rate is an estimate of the chance of surviving the effects of cancer.

Reporting area — In the National Vital Statistics System, reporting requirements for selected items such as Hispanic origin, educational attainment, and marital status vary by State. Accordingly, the reporting areas for these selected items are comprised of only the States that require the item to be reported. For example, in 1989, the reporting area for educational attainment of mother on the birth certificate included 48 States, the District of Columbia, and New York City. See related *Registration area; National Vital Statistics System* in Appendix I.

Resident — In the National Nursing Home Survey, a resident is a person on the roster of the nursing home as of the night before the survey. Included are all residents for whom beds are maintained even though they may be on overnight leave or in a hospital. See related *Discharge; Nursing home*.

Resident population — See *Population*.

Residential treatment care — See *Mental health service type*.

Residential treatment centers for emotionally disturbed children — See *Mental health organization*.

Restricted-activity day — See *Disability day*.

School-loss day — See *Disability day*.

Self-assessment of health — See *Health, self-assessment of*.

Short-stay hospitals — See *Hospital*.

Skilled nursing facilities — See *Nursing homes, certification of*.

Specialty hospitals — See *Hospital*.

State health agency — The agency or department within State government headed by the State or

territorial health official. Generally, the State health agency is responsible for setting State-wide public health priorities, carrying out national and State mandates, responding to public health hazards, and assuring access to health care for underserved State residents.

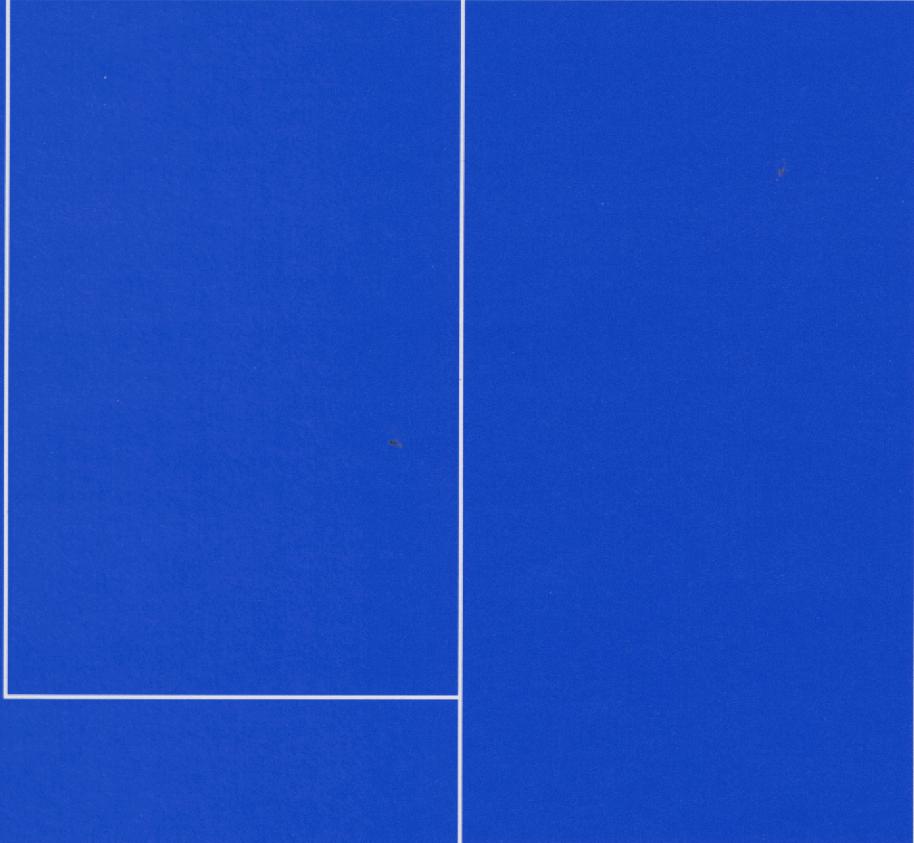
Surgical operations — See *Procedure*.

Surgical specialties — See *Physician specialty*.

Urbanization — In this report death rates are presented according to the level of urbanization of the decedent's county of residence. This categorization is based on the rural-urban continuum codes for metropolitan and nonmetropolitan counties developed by the Economic Research Service, U.S. Department of Agriculture. Counties are categorized as metropolitan and nonmetropolitan by using the 1983 U.S. Office of Management and Budget definition of Metropolitan Statistical Areas (MSA's). The codes classify metropolitan counties by size and nonmetropolitan counties by degree of urbanization or proximity to metropolitan areas. The original 10 categories of counties have been collapsed into five categories for this report: (1) Large core metropolitan counties contain the primary central city of an MSA with a 1980 population of 1 million or more; (2) Large fringe metropolitan counties are the noncore counties of an MSA with 1980 population of 1 million or more; (3) Medium or small metropolitan counties are in MSA's with 1980 populations under 1 million; (4) Urban nonmetropolitan counties are not in MSA's and have 2,500 or more urban residents in 1980; and (5) Rural counties are not in MSA's and have fewer than 2,500 urban residents in 1980.

Work-loss day — See *Disability day*.

Years of potential life lost — Years of potential life lost are calculated over the age range from birth to 65 years of age. The number of deaths for each age group is multiplied by the years of life lost, calculated as the difference between age 65 years and the midpoint of the age group. For example, the death of a person age 15–24 years counts as 45 years of life lost. Years of potential life lost is derived by summing years of life lost over all age groups. For more information, see Centers for Disease Control. *MMWR*. Dec. 19, 1986. Vol. 35, Supp. No. 2S.



Healthy People 2000 Review

List of Figures

| | | | |
|--|-----|--|-----|
| 1. Years of healthy life: United States, 1990 | 241 | 19. Proportion of live births that are low birth weight and are very low birth weight by race of mother: United States, 1987–90 and year 2000 targets for objective 14.5 | 313 |
| 2. Infant mortality rates: United States, 1987–91, 1990 goal and year 2000 target | 242 | 20. Age-adjusted death rates for coronary heart disease: United States, 1987–90 and year 2000 targets for objective 15.1 | 319 |
| 3. Death rates for children 1–14 years of age: United States, 1987–90, 1990 goal and year 2000 target | 242 | 21. Age-adjusted death rates for cancer: United States, 1987–90 and year 2000 target for objective 16.1 | 327 |
| 4. Death rates for adolescents and young adults 15–24 years of age: United States, 1987–90, 1990 goal and year 2000 target | 243 | 22. Limitation of major activity caused by chronic conditions, according to selected characteristics targeted by year 2000 objective 17.2: United States, 1991 | 333 |
| 5. Death rates for adults 25–64 years of age: United States, 1987–90, 1990 goal and year 2000 target | 243 | 23. Annual incidence of diagnosed AIDS cases according to selected characteristics targeted by year 2000 objective 18.1: United States, 1989–91 | 341 |
| 6. Older noninstitutionalized adults who have difficulty in performing two or more personal care activities: United States, 1984 and 1986 | 244 | 24. Annual incidence of gonorrhea, according to selected characteristics: United States, 1989–91 and year 2000 targets for objective 19.1 | 346 |
| 7. Persons 18–74 years and over who engage in light to moderate physical activity for at least 30 minutes per occasion 5 or more times per week: United States, 1985, 1990, 1991, and year 2000 target for objective 1.3 | 245 | 25. Annual incidence of tuberculosis, according to race and ethnicity: United States, 1988–91 and year 2000 targets for objective 20.4 | 350 |
| 8. Overweight adults 20–74 years of age according to selected characteristics targeted by year 2000 objective 2.3: United States, 1991 | 252 | 26. Adults with a usual source of medical care, according to selected characteristics related to year 2000 objective 21.3: United States, 1991 | 357 |
| 9. Current cigarette smokers among persons 20 years of age and over, according to selected characteristics targeted by year 2000 objective 3.4: United States, 1991 | 260 | | |
| 10. Average age of first use of cigarettes, alcohol, and marijuana by adolescents 12–17 years of age: United States, 1988–91 and year 2000 targets for objective 4.5 | 266 | | |
| 11. Persons 18 years and over with adverse health effects of stress in the past year: United States, 1985, 1990, and year 2000 target for objective 6.5 | 275 | | |
| 12. Death rates for homicide among black males 15–34 years of age: United States, 1987–90 and year 2000 target for objective 7.1 | 279 | | |
| 13. Percent of worksites offering health promotion activities: United States, 1985, 1992, and year 2000 target for objective 8.6 | 283 | | |
| 14. Number of States with laws requiring safety belt and motorcycle helmet use for all ages: United States, 1989–91 and year 2000 target for objective 9.14 | 287 | | |
| 15. Death rates for work-related injuries among full-time workers according to selected occupations: United States, 1983–90, and year 2000 targets for objective 10.1 | 293 | | |
| 16. Outbreaks of waterborne disease: United States, 1981–88 average, 1989–90, and year 2000 target for objective 11.3 | 297 | | |
| 17. Outbreaks due to <i>Salmonella enteritidis</i> : United States, 1989–91 and year 2000 target for objective 12.2 | 303 | | |
| 18. Percent of persons 65 years and over who have lost all of their natural teeth: United States, 1986–91 and year 2000 targets for objective 13.4 | 306 | | |

List of Tables

| | |
|---|-----|
| 1. Physical activity and fitness objective status_____ | 247 |
| 2. Nutrition objective status_____ | 254 |
| 3. Tobacco objective status_____ | 262 |
| 4. Alcohol and other drugs objective status_____ | 268 |
| 5. Family planning objective status_____ | 272 |
| 6. Mental health and mental disorders objective status_____ | 276 |
| 7. Violent and abusive behavior objective status_____ | 280 |
| 8. Educational and community based programs objective status_____ | 284 |
| 9. Unintentional injuries objective status_____ | 288 |
| 10. Occupational safety and health objective status_____ | 294 |
| 11. Environmental health objective status_____ | 299 |
| 12. Food and drug safety objective status_____ | 304 |
| 13. Oral health objective status_____ | 308 |
| 14. Maternal and infant health objective status_____ | 314 |
| 15. Heart disease and stroke objective status_____ | 321 |
| 16. Cancer objective status_____ | 328 |
| 17. Diabetes and chronic disabling conditions objective status_____ | 334 |
| 18. HIV objective status_____ | 343 |
| 19. Sexually transmitted diseases objective status_____ | 347 |
| 20. Immunization and infectious diseases objective status_____ | 352 |
| 21. Clinical preventive services objective status_____ | 359 |
| 22. Surveillance and data systems objective status_____ | 364 |

Introduction

Background and Summary

Healthy People 2000: National Health Promotion and Disease Prevention Objectives (1) is a statement of national opportunities. This prevention initiative presents a national strategy for significantly improving the health of the American people in the decade preceding the year 2000. *Healthy People 2000* recognizes that lifestyle and environmental factors are major determinants in disease prevention and health promotion. It provides strategies to significantly reduce preventable death and disability, to enhance quality of life, and to reduce disparities in health status between various population groups within our society.

Healthy People 2000 defines three broad goals: to increase the span of healthy life for Americans; to reduce health disparities among Americans; and to achieve access to preventive services for all Americans. These goals are supported by 300 specific objectives that set priorities for public health during the 1990's. Subobjectives for minorities and other special populations were also established to meet the unique needs and health problems of these populations. *Healthy People 2000* uses the three approaches of health promotion, health protection, and preventive services as organizing categories for 22 priority areas. For each of these priority areas, a U.S. Public Health Service agency was designated to develop an implementation plan and to coordinate activities directed toward attaining the objectives (see table A).

Work on the report began in 1987 with the establishment of a consortium that has grown to include over 300 national membership organizations and all the State health departments. The *Healthy People 2000* Consortium, facilitated by the Institute of Medicine of the National Academy of Sciences, helped the U.S. Public Health Service convene eight regional hearings at which over 750 individuals and organizations presented testimony. This testimony became the primary resource material for the working groups of professionals who crafted the health objectives. After further extensive public review and comment from more than 10,000 people, the objectives were refined, revised, and published as *Healthy People 2000*.

The first national health promotion and disease prevention objectives were set in 1979, to be achieved by 1990 (2). During the 1980's, progress toward the 1990 objectives was tracked in five *Prevention Profiles* (3) and in *The 1990 Health Objectives for the Nation: A Midcourse Review* (4). The *Healthy People 2000* Review will monitor the progress of the Nation's health promotion and disease prevention objectives for the year 2000 throughout this decade.

The Reviews will be published annually. *Healthy People 2000 Review, 1992* presents an overview of the current status of progress toward all of the year 2000 objectives. The Public Health Service reviews progress toward the year 2000 objectives periodically. Summaries of these reviews are published in *Public Health Service Progress Reports on Healthy People 2000* (5). This report contains the most recent national data available and supersedes data published in *Healthy People 2000*, progress review reports, and all other earlier publications containing national data on the year 2000 objectives.

There are 300 unduplicated main objectives. Some priority areas share identical objectives; there are 332 objectives counting the duplicates. Special targets were set for higher-risk population groups. These population groups include people with low incomes, people who are members of some racial and ethnic minority groups, and people with disabilities (1). There are 223 special population

targets excluding duplicates; with duplicates there are 284. Thus, without duplicates there are a total of 520 health promotion and disease prevention objectives and subobjectives for the year 2000; 616 with duplicates.

This summary of progress incorporates all priority area objectives and is therefore a duplicated count (i.e., 332 objectives). At this early point in the decade, three percent of objectives have already been met. Progress toward the targets has been made on another 28 percent of the objectives. Fifteen percent of the objectives show movement away from the targets. Data for four percent of the objectives show mixed results (these objectives have more than one data point to measure and have shown progress for some and movement away from the targets for others), and three percent have updates but show no change. Ten percent of the objectives have new baselines where baselines did not originally exist. Twenty-eight percent have no new data with which to evaluate progress. Baselines have yet to be obtained for ten percent of objectives. Data sources have been identified for all but one *Healthy People 2000* objective, which is listed in two priority areas.

Priority areas (PA's) showing the most progress are Heart Disease and Stroke (PA 15) with 9 of 17 objectives showing progress; Unintentional Injuries (PA 9) with 11 of 22 objectives showing progress including three objectives that have met or exceeded their targets; and Alcohol and Other Drugs (PA 4) with progress for 9 of 19 objectives including one objective that has exceeded its target.

Priority areas with the most objectives showing movement away from the targets are Maternal and Infant Health (PA 14) with five of 16 objectives in this category, and Diabetes and Chronic Disabling Conditions (PA 17) with six of 20 objectives in this category.

Ninety-two objectives have had no new data since the baseline published in *Healthy People 2000*. The priority areas with over half of their objectives in this category are Family Planning (PA 5) with six of 11 objectives, and Oral Health (PA 13) with 9 of 16 objectives.

Organization and Scope of This Review

This *Review* is divided into four major sections—(1) a section on the general data issues involved in the monitoring of the year 2000 objectives, (2) a section highlighting the year 2000 goals and age-related objectives, (3) a section of 22 chapters, one for each *Healthy People 2000* priority area, and (4) a four-part section of information tables.

A number of major cross-cutting data issues involved in the monitoring of the objectives and subobjectives are presented in the first section. Because these issues relate to objectives in numerous priority areas, they are discussed here rather than in each individual chapter.

The second section highlights the year 2000 goals and progress toward the year 2000 age-related objectives, continuing the tracking of the five broad 1990 goals for the five major life stages.

The third section consists of 22 chapters, one for each *Healthy People 2000* priority area. Each chapter contains a discussion of specific data issues, a figure representing one of the priority area objectives, an objective status summary table, and the full text of the objectives in that priority area.

The text for each chapter presents a brief discussion of the reasons the priority area was included in the initiative, a summary of the overall status of the objectives, and monitoring data issues that are not obvious from the summary table or the text of the objective, such as proxy measures, differing tracking systems, and

operational definitions. A few caveats must be made regarding summaries of the progress (or lack of progress) on the objectives. At this early point in tracking, many summary statements are based on data from only 1 or 2 years beyond the baseline. Many data points are derived from sample surveys and are therefore subject to sampling and nonsampling errors. A small change between a baseline level and more recent information may or may not indicate progress toward achievement of the year 2000 target. A more thorough assessment of progress, taking into account trends over several years, will be made as the decade progresses.

Most figures show the progress of one of the priority area objectives toward the objective target. Some show the latest data for population groups that were targeted because of especially high risk. In some cases, choice of figures depended on the availability of data; the choice does not confer more relative importance to any of the objectives depicted.

The objective summary table presents the baselines, targets, and current progress toward the priority area objectives. Most baselines use 1987 data. The most current vital statistics data are from 1990; the most current estimates from the National Health Interview Survey are from 1991, and approximately one-quarter of the objectives are tracked with data from this survey.

There are four tables at the end of the *Review*. Table A lists the priority area lead agencies. Table B displays the cause-of-death categories used for the *Healthy People 2000* mortality objectives. Table C presents current data sources for all the *Healthy People 2000* objectives and subobjectives, and table D lists the Health Status Indicators developed for objective 22.1.

Data Issues

There are several major cross-cutting data issues involved in the monitoring of the objectives and subobjectives. These include revised baselines, issues regarding minority group subobjectives, age-adjusted versus crude mortality rates, data source comparability, cause-of-death category issues, and years of healthy life.

Revised Baselines

For a number of *Healthy People 2000* objectives, the baselines shown in this Review have been revised from the original baselines published in *Healthy People 2000*. Fifty revisions were the result of the revised Census population estimates and are discussed below. In priority area 14, 11 baselines were revised in response to a change in the method for tabulating the race of infants (see Chapter 14, Maternal and Infant Health). For 44 specific objectives (unduplicated), the baselines have been changed because of modifications in methodology, typographical errors, changes in data sources, or because the baseline data were based on preliminary analyses.

Except for objectives 6.3 and 7.6, which were revised by the lead agency responsible for achieving the objectives (table A), as of this writing, all *Healthy People 2000* targets are being shown as originally published.

Revised Death Rates

The 1986-87 baselines for population-based mortality objectives and subobjectives tracked with data from the National Vital Statistics System (NVSS), as well as subsequent data for the 1980's, have been recomputed using intercensal population estimates based on the 1990 Census enumeration (see *Health, United States, 1992*,

Appendix I). Data for the three mortality objectives (4.1, 9.3, and 10.1) tracked by sources other than the NVSS are not revised for this reason. With the exception of American Indian/Alaska Native death rates (see below), the changes are relatively small. The objectives affected by this change are shown in table B. Cases where the recomputed baseline rate was the same as the original rate are denoted in the objective status tables by "no change."

American Indian and Alaska Native Mortality Rates

The baseline rates for some American Indian/Alaska Native (AI/AN) mortality subobjectives have been revised to reflect the new intercensal populations and the inclusion of the entire U.S. AI/AN population. The objectives affected by this change are:

| | |
|-----------|-----------------------------|
| 4.2b | Cirrhosis deaths |
| 6.1d/7.2d | Suicide deaths |
| 7.1f | Homicide deaths |
| 9.1a | Unintentional injury deaths |
| 9.3d | Motor vehicle crash deaths |
| 17.9b | Diabetes-related deaths |

The original baselines and targets for these objectives were established using data from the 33 States in which AI/AN health services are provided by the Indian Health Service Regional Service Offices. The Indian Health Service provides health care to approximately 60 percent of the AI/AN population (5); most of the population served live on or near reservations. "Reservation States" include approximately 90 percent of the AI/AN population in the United States, but exclude some urban centers with large American Indian populations.

The revised baselines are substantially lower than the original figures. These large differences are partially due to the substantially larger intercensal population estimates (death rate denominators) based on the 1990 Census compared with those based on the 1980 Census. They may also reflect the relatively greater failure to identify AI/AN deaths on death certificates in non-Reservation States compared with Reservation States (7).

Minority Group Subobjectives

The guideline for drafting the objectives required the identification of a data source to track progress before a subobjective for a minority or special population could be set. Although there are virtually no data gaps for existing subobjectives, lack of data sources prevented the establishment of subobjectives for some population groups. Many subpopulations are small and geographically clustered and cannot be measured through national surveys using standard sampling techniques. Developing techniques to assess the health of minorities and other special subpopulations will be a significant challenge during the coming decade.

Another concern is the availability of reliable denominator data. Although national surveys can provide numbers of responses for some subpopulations, intercensal population estimates may not be obtainable for these groups. County population estimates and State-specific estimates for major racial and ethnic subgroups may also be unavailable.

Age Adjustment

Most of the original baselines for mortality objectives published in *Healthy People 2000* are derived from the National Vital Statistics System and are age adjusted to the 1940 population. Exceptions are objectives 4.1, 9.3, and 10.1. Data for 4.1 and 9.3 are crude rates from the National Highway and Traffic Safety Administration's

Fatal Accident Reporting System (FARS); data for 10.1 are crude rates from the Department of Labor's Annual Survey of Occupational Injuries and Illnesses. Most of the previously published mortality subobjective baselines are age adjusted as well; the exceptions are subobjectives 4.1a (a crude rate from FARS), 9.1b, 9.1c, 9.5c, 9.6c, and 9.6d. With the publication of this Review, all mortality objectives and subobjectives, except for those tracked with FARS or Department of Labor data, will be tracked with age-adjusted rates (see *Health United States, 1992*, Appendix II).

Data Source Comparability

For some objectives the baseline data source differs from the source that will be used to monitor progress. Comparability between different data sources or even within the same data source for different years is not assured. Unless the data for an objective are obtained from the same questions of the same survey system each year, unless operational definitions remain the same, and unless analytical techniques are constant, tracking can be compromised. Comparability, if an issue, is discussed in priority area chapters. For a number of objectives that will be tracked with the third National Health and Nutrition Examination Survey (NHANES III), proxy data from various surveys are being used until the NHANES III data are available. See table C for a list of sources for each *Healthy People 2000* objective.

Cause-of-death Terminology and Codes

Twenty-four objectives (excluding duplicates) in *Healthy People 2000* are tracked using mortality data (table B). For most of these objectives, the cause-of-death terminology used in *Healthy People 2000* is different from that used in *Health, United States; Vital Statistics of the United States, Mortality*, and other NCHS publications; in some cases, the terminology and the identifying International Classification of Disease (ICD-9) codes are different (8).

Specifically, for five objectives, the terminology and the codes are different from those used for similar cause-of-death categories in the NCHS tabulation lists. One example, objective 7.1, concerns reduction of "homicides." Progress toward this objective is measured using ICD-9 numbers E960-E969. The NCHS tabulation lists generally use "Homicide and legal intervention" (ICD-9 numbers E960-E978), which includes police action. For 14 objectives, only the terminology differs; the defining ICD-9 identifying codes are the same. For example, objective 15.2 calls for reduction in mortality from "stroke;" NCHS tabulation lists use the term "Cerebrovascular diseases" (both use ICD-9 numbers 430-438). Only one objective, suicide, has the same title and the same code in both uses. The remaining four mortality objectives have no comparable category in NCHS publications. With the exception of heart disease, the differences between mortality rates defined by the *Healthy People 2000* ICD categories and those defined by the NCHS rubrics are relatively small, if not trivial.

Years of Healthy Life

Increasing years of healthy life is one of the three *Healthy People 2000* goals and is included as three specific objectives (8.1, 17.1, and 21.1). The 1980 baseline has been updated to 1990, using a revised methodology developed by NCHS and external consultants. This interim measure, which will be used to monitor progress until the year 2000, combines mortality data from the National Vital Statistics System with health status data from the National Health Interview Survey. The definition and measurement of years of healthy life are still being refined; research will continue

in this area. The methodology used for the interim measure will be published elsewhere (9).

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Year 2000 Goals and Age-Related Objectives

Healthy People 2000 has three goals: to increase the span of healthy life for all Americans, to decrease health disparities among Americans, and to achieve access to preventive services for all Americans. In addition to these goals, there are four age-related objectives that cut across the 22 priority areas and the organizing categories of health promotion, health protection, and preventive services.

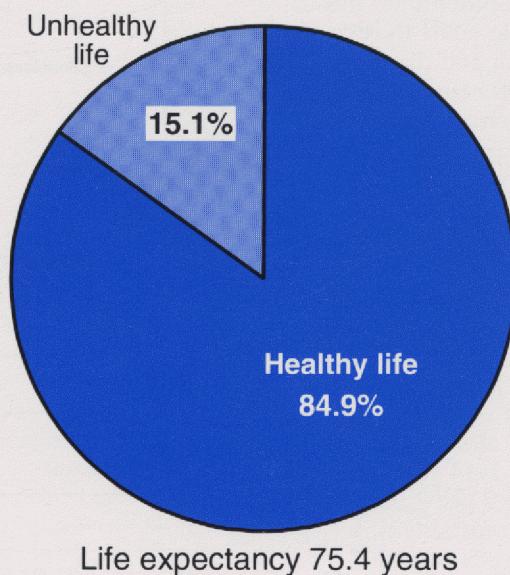
The primary goal recognizes the importance of preventing disability, as well as further impairment or morbidity for those people with disabilities, so that long life will be accompanied by good health. *Healthy People 2000* emphasizes the full range of functional capacity from infancy through old age, including measures of health outcomes.

Years of healthy life can be measured by modifying life expectancy by a value representing the portion of life spent in an "unhealthy" state (for example, impaired by disabilities, disease, or injuries). As figure 1 indicates, in 1990, life expectancy in the United States was 75.4 years while years of healthy life was 64.0. On average, Americans spend 85 percent of their lifespan in a healthy state. *Healthy People 2000* is directed at increasing this percentage. The measurement of years of healthy life is discussed in the Data Issues section of the Introduction.

Specific strategies are needed to assess the unique needs of disadvantaged and high-risk populations. The second goal is to reduce disparities in death, disease, and disability rates of these groups as compared with the total population. The specific groups targeted are racial and ethnic minority populations, people with low income, and people with disabilities.

Healthy People 2000 also recognizes that many Americans lack access to an ongoing source of primary care and therefore to essential preventive services. The third goal addresses the many

Figure 1. Years of healthy life: United States, 1990



| 1990 | |
|--------------------------|------|
| Healthy life | 64.0 |
| Unhealthy life | 11.4 |

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System and National Health Interview Survey.

barriers to access to health care. These barriers include inadequate health insurance, the mal-distribution of primary care providers, geographic barriers, and language and cultural barriers.

The four age-related objectives continue the emphasis of the 1990 health initiative. The 1990 Objectives for the Nation (1) identified five broad quantifiable goals to reduce preventable death and disability among Americans at major life stages: as infants, children, adolescents and young adults, adults, and older adults. Impressive progress was made toward these goals during the 1980's (2).

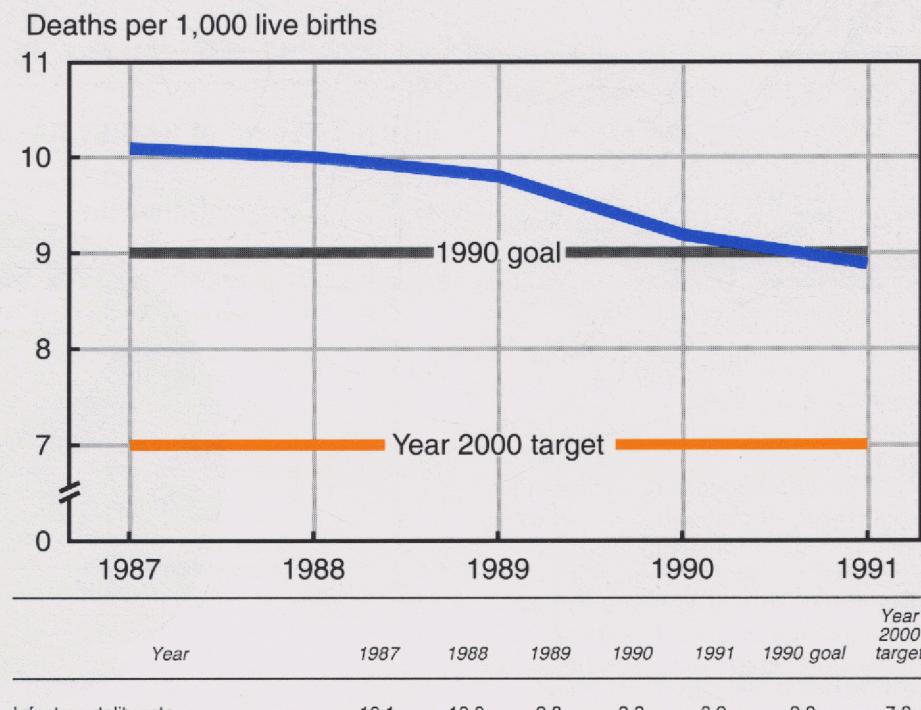
Continuing the tracking of the 1990 goals for infants and children, the year 2000 age-related objective is to reduce the infant mortality rate by approximately 30 percent to no more than 7 per 1,000 live births and reduce the death rate for children by 15 percent to no more than 28 per 100,000 children 1–14 years of age. The 1990 goal of 9 per 1,000 live births for infant mortality was reached and exceeded in 1991 (figure 2). For children, the 1990 goal was met by 1985 (figure 3). If the present rate of decline continues, the year 2000 target will be reached in 1993.

The year 2000 age-related objective for adolescents and young adults is to reduce the death rate by 15 percent to no more than 85 per 100,000 people 15–24 years of age. Death rates fluctuated between 1987 and 1990, showing little change and no decline (figure 4). They remain far above the 1990 goal of 93 and the year 2000 target.

For adults, the year 2000 age-related objective is to reduce the death rate by 20 percent to no more than 340 per 100,000 people 25–64 years of age. At the present average annual rate of decline of 1.6, the year 2000 objective will not be reached until 2009 (figure 5).

People who reach the age of 65 can now expect to live into their eighties (*Health, United States, 1992*, detailed table 27). The data regarding the years of healthy life indicate the likelihood that not all those years will be active and independent ones. Thus, improving the functional independence, not just the length, of later life is an important element in promoting the health of this age

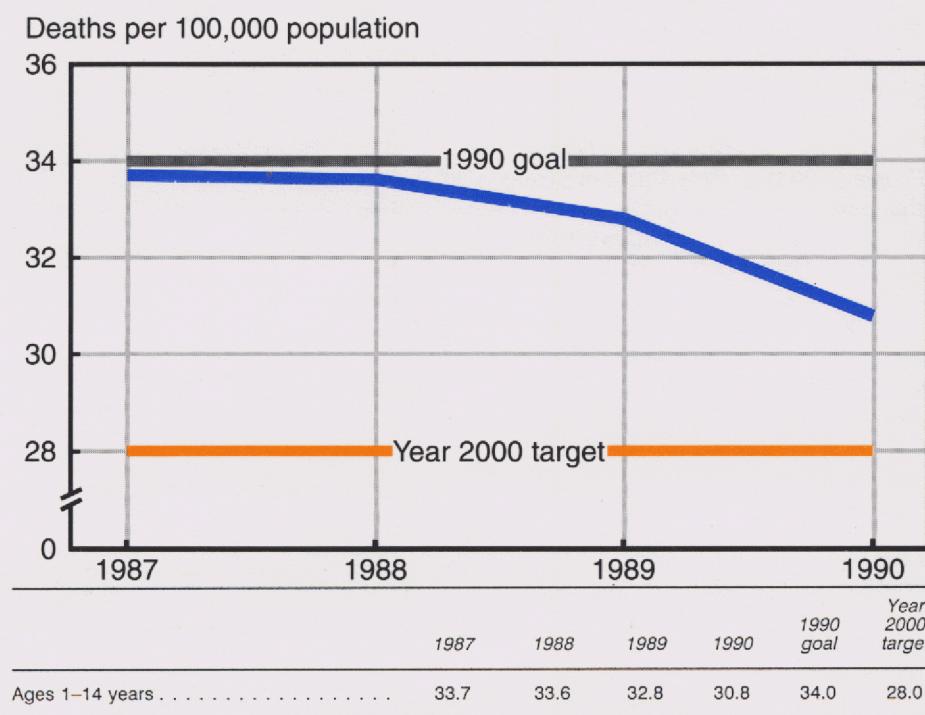
Figure 2. Infant mortality rates: United States, 1987–91, 1990 goal and year 2000 target



NOTE: 1991 data are provisional. Related tables in *Health, United States, 1992*, are 18–23 and 25.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System.

Figure 3. Death rates for children 1–14 years of age: United States, 1987–90, 1990 goal and year 2000 target



NOTE: Related tables in *Health, United States, 1992*, are 31, 34–37, 40, 42–45, 48 and 50.

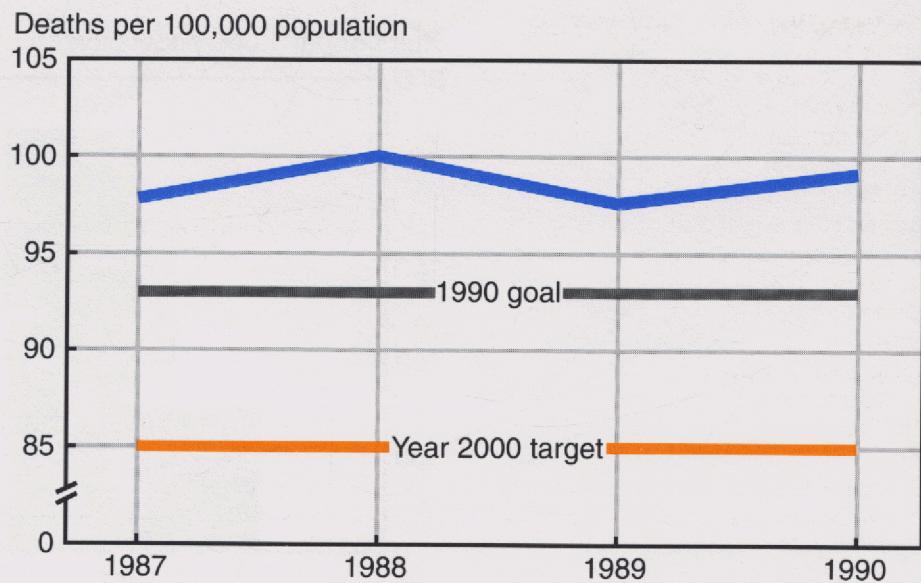
SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System.

group. The 1990 goal for older adults was to reduce the average annual number of days of restricted activity due to acute and chronic conditions to fewer than 30 days per year. Because of the difficulties in interpreting the meaning of restricted activity days, the year 2000 age-related objective for older adults is to reduce to no more than 90 per 1,000 people the proportion of all people 65 years of age and over who have difficulty in performing two or more personal care activities, thereby preserving independence. Data beyond the baseline were available for noninstitutionalized people only (figure 6). For people 65 years of age and over the proportion who have difficulty remained the same between 1984 and 1986. For people 85 years of age and over, the proportion who have difficulty declined by about 9 percent between 1984 and 1986.

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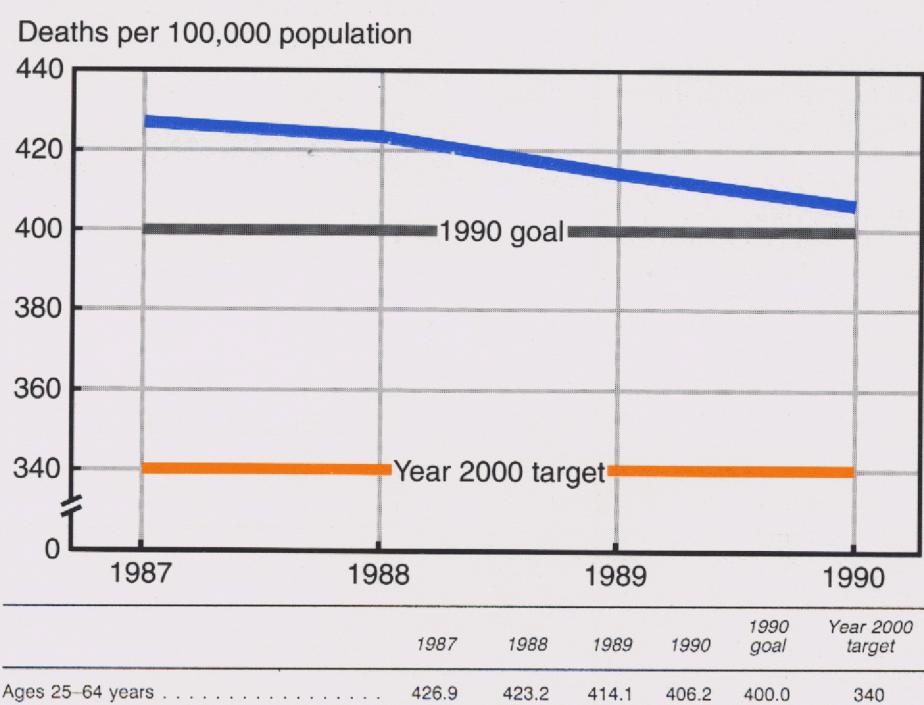
Figure 4. Death rates for adolescents and young adults 15–24 years of age: United States, 1987–90, 1990 goal and year 2000 target



NOTE: Related tables in *Health, United States, 1992* are 31, 34–37, 40, 42–45, 48, and 50.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System.

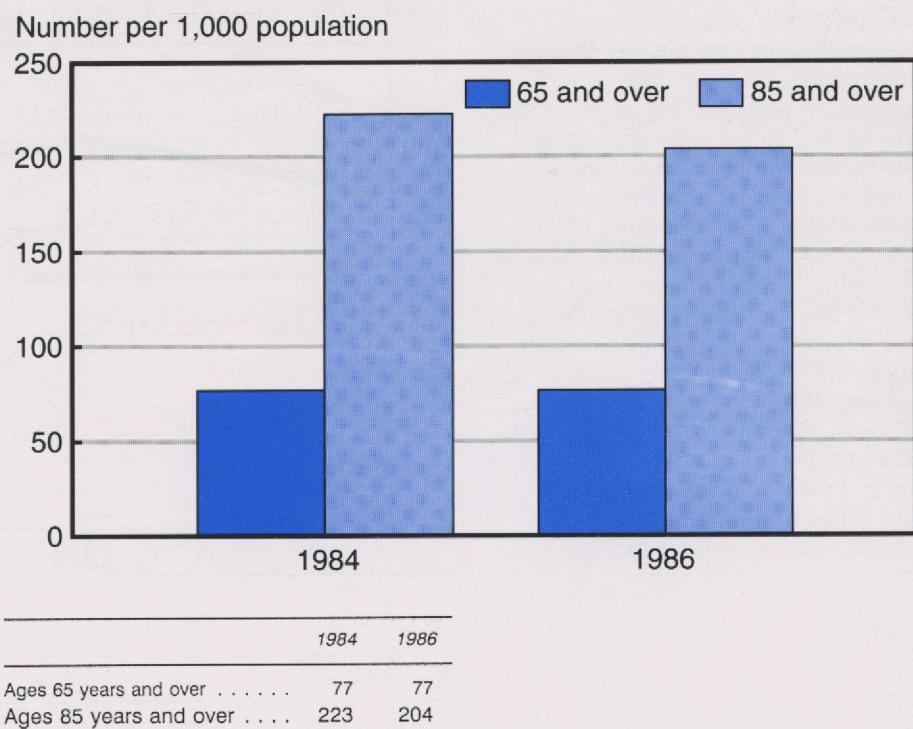
Figure 5. Death rates for adults 25–64 years of age: United States, 1987–90, 1990 goal and year 2000 target



NOTE: Related tables in *Health, United States, 1992*, are 31–40, 42–45, 48, and 50.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System.

Figure 6. Older noninstitutionalized adults who have difficulty in performing two or more personal care activities: United States, 1984 and 1986



NOTE: This objective is a duplicate of objective 17.3. A related table in *Health, United States, 1992*, is 61.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health Interview Survey.

Priority Area 1

Physical Activity and Fitness

Background and Data Summary

Regular physical activity can help to prevent and manage coronary heart disease, hypertension, noninsulin-dependent diabetes mellitus, osteoporosis, obesity, and mental health problems such as depression and anxiety (1). Regular physical activity has also been associated with lower rates of colon cancer (2) and stroke (3), and may be linked to reduced back injury (4). On average, physically active people outlive those who are inactive (5). Regular physical activity can also help to maintain the functional independence of older adults and enhance the quality of life for people of all ages (6).

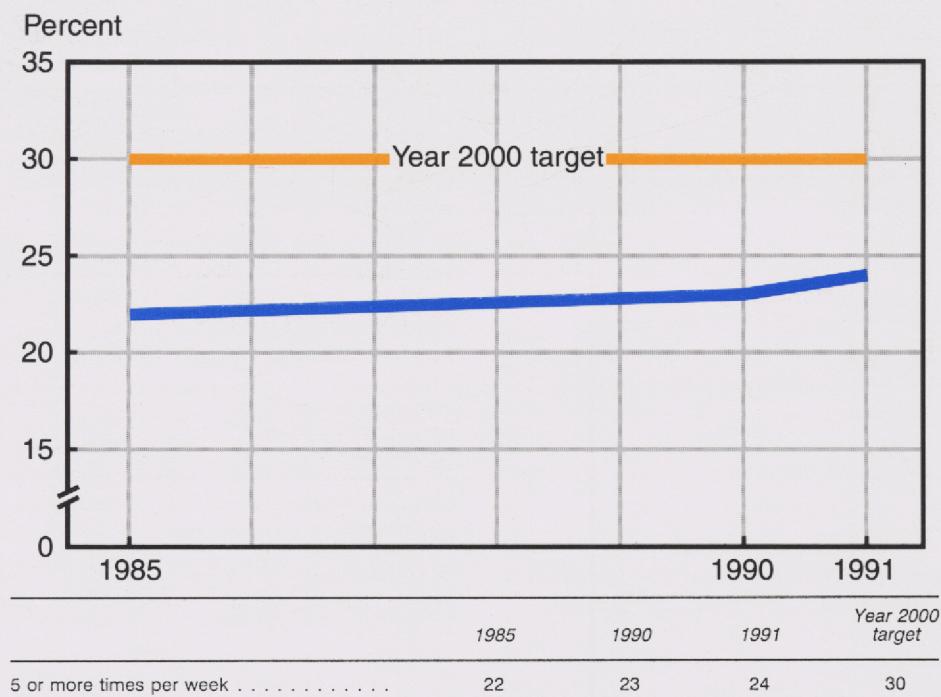
Of the 12 Physical Activity and Fitness objectives, one has been met (objective 1.10), four show progress toward the year 2000 targets (1.1, 1.3, 1.4, and 1.6) while two are moving away from the targets (1.2 and 1.7). Data for one objective (1.5), show no change, and data to update progress for the remaining four objectives (1.8, 1.9, 1.11, and 1.12) are not yet available. Trends for special population subgroups are mixed. The decline in coronary heart disease mortality has been slower in the black population than in the total population. For objective 1.4 (vigorous physical activity), 1991 data indicate that the target for adults with annual incomes of less than \$20,000 has been surpassed. The proportion of adults with a sedentary lifestyle may be increasing among the total population, although it has declined among people 65 years of age and over and people with disabilities.

Data Issues

Definitions

Physical activity and fitness as a recognized risk factor for health outcomes is a relatively new concept, contributing to present difficulties in

Figure 7. Persons 18–74 years of age who engage in light to moderate physical activity for at least 30 minutes per occasion 5 or more times per week: United States, 1985, 1990, 1991, and year 2000 target for objective 1.3



SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health Interview Survey.

tracking some objectives. Calculations vary from simple counts (for example, weight-training 3 or more times a week) to complex formulas (for example, calculating average kilocalories expended per kilogram per day) (7). The intent of objective 1.3 (light to moderate physical activity) is to generate calorie-burning activity from a health standpoint by emphasizing the importance of regular physical activity that can be sustained throughout the lifespan. The sum of all physical activities performed at least 30 minutes per occasion 5 or more or 7 or more times a week regardless of the intensity has been defined as measuring this objective.

To measure the proportion of adults performing vigorous physical activity (1.4), the predicted maximum

cardiorespiratory capacity was estimated using age-sex based regression equations and then multiplying by 50 percent (see Note with the text of objective 1.4). Then all the activities that were performed for at least 20 minutes that had a kilocalorie value that was equal to or greater than that 50 percent level were counted (8,9). The estimated number of people who exercise vigorously were respondents who performed these activities 3 or more times per week.

Comparability of Data Sources

The baseline data source for objective 1.3 was the Behavioral Risk Factor Surveillance System; because this objective will be tracked with the National Health Interview Survey

(NHIS), and 1985 data were available from this survey, the baseline has been revised to reflect the estimates from the NHIS. The method of measuring the objective has also been modified from that used in the baseline measure, although the revised estimate did not differ for people exercising 5 or more times per week. Although data from the NHIS were used for all 3 years (1985, 90 and 91), the questionnaire changed in 1991. Databases were made as similar as possible before estimates were made.

Objectives 1.3, 1.4, 1.6, 1.8, and 1.9 for children and adolescents will be tracked with the Youth Risk Behavior Survey (YRBS) for students in grades 9–12. Although baseline and tracking data are available for objectives 1.4, 1.8, and 1.9, trends for these objectives cannot currently be ascertained for this age group because the baseline data were for other age groups and from other sources.

Proxy Measures

In late 1993 data comparable to the baseline on measured overweight will be available from the National Health and Nutrition Examination Survey III to measure progress. As an interim measure, self-reported overweight from the National Health Interview Survey (NHIS) is being used for objective 1.2. In comparisons of measured and self-reported heights and weights, women underestimate overweight and overestimate underweight, while men underestimate overweight and overestimate underweight (10,11).

Regular performance of physical activities that enhance and maintain muscular strength, muscular endurance, and flexibility (1.6) most likely requires participation in a variety of physical activities as not all activities will satisfy all three factors. However, scoring parameters for strength, endurance, and flexibility are not yet available. Until research into these areas can provide such measures, for adults this objective will be tracked using data on an activity that increases muscular strength only—weight-lifting. The 1991 data shown for students in grades 9–12 are based on self-reported participation in stretching exercises or

strengthening exercises that were done 4 or more days per week.

Objective 1.7 is to increase to at least 50 percent the proportion of overweight people who use sound dietary practices combined with regular physical activity to attain appropriate body weight. Respondents who reported they were overweight and were currently trying to lose weight or control their weight by eating fewer calories or exercising more were counted for this objective. However, an assessment of the quality of dietary practices has not yet been coupled with a measure of regular physical activity. The design of the questions used to track this objective changed between 1990 and 1991, and may have effected the estimates.

Objective 1.9 targets time spent in school physical education classes devoted to activities that may be readily carried into adulthood because their performance requires only one or two people (such as swimming, bicycling, jogging, and racquet sports). The proxy measure for this objective is the percent of class time spent in actual physical activity. The data used to track this objective are not comparable. 1983 data show the percent of physical education class time spent being physically active for all students. The YRBS updates, for students in grades 9–12, show the percent who exercised 20 or more minutes in physical education class 3–5 times a week in 1990, and the percent who exercised 30 or more minutes in physical education class 1 or more times a week in 1991.

Table 1. Physical activity and fitness objective status

| | Objective | 1987 baseline | | | | Target 2000 |
|------|--|-----------------------------------|--------------------------|-------------------|-------------------|---------------------|
| | | Original | Revised | 1990 | 1991 | |
| 1.1 | Coronary heart disease deaths (age adjusted per 100,000) | 135 | ¹ No change | 122 | --- | 100 |
| | a. Blacks (age adjusted per 100,000) | 163 | ¹ 168 | 158 | --- | 115 |
| 1.2 | Overweight prevalence | | | | | |
| | People 20 years and over. | ² 26% | ... | 27% | 28% | 20% |
| | Males | ² 24% | ... | 27% | 28% | ... |
| | Females | ² 27% | ... | 27% | 28% | ... |
| | Adolescents 12–19 years | ² 15% | ... | --- | --- | 15% |
| | a. Low-income females 20 years and over | ² 37% | ... | 37% | 39% | 25% |
| | b. Black females 20 years and over | ² 44% | ... | 42% | 44% | 30% |
| | c. Hispanic females 20 years and over | ... | ³ 27% | 33% | 32% | 25% |
| | Mexican-American females | 439% | ... | --- | 38% | ... |
| | Cuban females | 434% | ... | --- | --- | ... |
| | Puerto Rican females | 437% | ... | --- | --- | ... |
| | d. American Indians/Alaska Natives | ⁵ 29–75% | ... | --- | 40% | 30% |
| | e. People with disabilities | ³ 36% | ... | --- | 38% | 25% |
| | f. Females with high blood pressure | ² 50% | ... | --- | --- | 41% |
| | g. Males with high blood pressure | ² 39% | ... | --- | --- | 35% |
| 1.3 | Moderate physical activity | | | | | |
| | People 6 years and over. | --- | ... | --- | --- | 30% |
| | People 18–74 years | | | | | |
| | 5 or more times per week. | ³ 22% | ^{3,6} No change | 23% | 24% | ... |
| | 7 or more times per week. | ³ 12% | ^{3,6} 16% | 16% | 17% | ... |
| 1.4 | Vigorous physical activity | | | | | |
| | Children and adolescents 6–17 years | --- | ... | --- | --- | 75% |
| | Children and adolescents 10–17 years | ⁷ 66% | ... | --- | --- | ... |
| | Students in 9th–12th grade | --- | ... | 37% | --- | ... |
| | People 18 years and over | ³ 12% | ... | --- | 14% | 20% |
| 1.5 | Sedentary lifestyle | | | | | |
| | People 6 years and over | --- | ... | --- | --- | 15% |
| | People 18 years and over | ³ 24% | ... | --- | 24% | 15% |
| | a. People 65 years and over | ³ 43% | ... | --- | 29% | 22% |
| | b. People with disabilities | ³ 35% | ... | --- | 30% | 20% |
| | c. Lower-income people (annual family income less than \$20,000) | ³ 32% | ... | --- | 32% | 17% |
| 1.6 | Muscular strength, endurance, and flexibility | | | | | |
| | People 6 years and over | --- | ... | --- | --- | 40% |
| | Students in 9th–12th grade | | | | | |
| | Stretching 4 or more times per week | ... | ... | --- | 43% | ... |
| | Strengthening 4 or more times per week | ... | ... | --- | 37% | ... |
| | Weight-lifting | | | | | |
| | People 18–64 years | ... | ⁸ 11% | --- | 16% | ... |
| 1.7 | Weight loss practices among overweight people 12 years and over | | | | | |
| | Overweight females 18 years and over | ³ 30% | ... | 29% | 22% | 50% |
| | Overweight males 18 years and over | ³ 25% | ... | 22% | 19% | ... |
| 1.8 | Daily school physical education | | | | | |
| | Students in 1st–12th grade | ⁹ 36% | ... | --- | --- | 50% |
| | Students in 9th–12th grade | ... | ... | --- | 42% | ... |
| 1.9 | School physical education quality | | | | | |
| | All students | ¹⁰ 27% | ... | --- | --- | 50% |
| | Students in 9th–12th grade | ... | ... | ¹¹ 33% | ¹² 49% | ... |
| 1.10 | Worksite fitness programs | | | | | |
| | 50–99 employees | ³ 14% | ... | --- | ¹³ 33% | 20% |
| | 100–249 employees | ³ 23% | ... | --- | ¹³ 47% | 35% |
| | 250–749 employees | ³ 32% | ... | --- | ¹³ 66% | 50% |
| | 750 and more employees | ³ 54% | ... | --- | ¹³ 83% | 80% |
| 1.11 | Community fitness facilities | | | | | |
| | Hiking, biking, and fitness trail miles | ¹⁴ 1 per 71,000 people | ... | --- | --- | 1 per 10,000 people |

Table 1. Physical activity and fitness objective status—Con.

| Objective | 1987 baseline | | | | Target 2000 |
|--|---------------------------------|---------|------|------|---------------------------|
| | Original | Revised | 1990 | 1991 | |
| Public swimming pools..... | 141 per 53,000 people | ... | --- | --- | 1 per 25,000 people |
| Acres of park and recreation open space | 141.8 per 1,000 people | ... | --- | --- | 4 per 1,000 people |
| 1.12 Clinician counseling about physical activity | | | | | |
| Percent of sedentary patients..... | 1530% | ... | --- | --- | 50% |

¹Data have been recomputed to reflect revised intercensal population estimates; see *Health, United States, 1992*, Appendix I.

²1976–80 data.

³1985 data.

⁴1982–84 data.

⁵1984–88 data for different tribes.

⁶Data source has been changed and data have been revised to reflect updated methodology; see Introduction.

⁷1984 data.

⁸1990 data.

⁹1984–86 data.

¹⁰1983 data.

¹¹Percent who exercised 20 or more minutes in physical education class 3–5 times per week.

¹²Percent who exercised 30 or more minutes in physical education class 1 or more times per week.

¹³1992 data.

¹⁴1986 data.

¹⁵1988 data.

NOTE: Data sources are in table C.

Physical Activity and Fitness Objectives

1.1*: Reduce coronary heart disease deaths to no more than 100 per 100,000 people.

Duplicate objectives: 2.1, 3.1, and 15.1

1.1a*: Reduce coronary heart disease deaths among blacks to no more than 115 per 100,000.

Duplicate objectives: 2.1a, 3.1a, and 15.1a

1.2*: Reduce overweight to a prevalence of no more than 20 percent among people aged 20 and older and no more than 15 percent among adolescents aged 12–19.

NOTE: For people aged 20 and older, overweight is defined as body mass index (BMI) equal to or greater than 27.8 for men and 27.3 for women. For adolescents, overweight is defined as BMI equal to or greater than 23.0 for males aged 12–14, 24.3 for males aged 15–17, 25.8 for males aged 18–19, 23.4 for females aged 12–14, 24.8 for females aged 15–17, and 25.7 for females aged 18–19. The values for adolescents are the age- and sex-specific 85th percentile values of the 1976–80 National Health and Nutrition Examination Survey (NHANES II), corrected for sample variation. BMI is calculated by dividing weight in kilograms by the square of height in meters. The cut points used to define overweight approximate the 120 percent of desirable body weight definition used in the 1990 objectives.

Duplicate objectives: 2.3, 15.10, and 17.12

1.2a*: Reduce overweight to a prevalence of no more than 25 percent among low-income women aged 20 and older.

Duplicate objectives: 2.3a, 15.10a, and 17.12a

1.2b*: Reduce overweight to a prevalence of no more than 30 percent among black women aged 20 and older.

Duplicate objectives: 2.3b, 15.10b, and 17.12b

1.2c*: Reduce overweight to a prevalence of no more than 25 percent among Hispanic women aged 20 and older.

Duplicate objectives: 2.3c, 15.10c, and 17.12c

1.2d*: Reduce overweight to a prevalence of no more than 30 percent among American Indians and Alaska Natives.

Duplicate objectives: 2.3d, 15.10d, and 17.12d

1.2e*: Reduce overweight to a prevalence of no more than 25 percent among people with disabilities.

Duplicate objectives: 2.3e, 15.10e, and 17.12e

1.2f*: Reduce overweight to a prevalence of no more than 41 percent among women with high blood pressure.

Duplicate objectives: 2.3f, 15.10f, and 17.12f

1.2g*: Reduce overweight to a prevalence of no more than 35 percent among men with high blood pressure.

Duplicate objectives: 2.3g, 15.10g, and 17.12g

1.3*: Increase to at least 30 percent the proportion of people aged 6 and older who engage regularly, preferably daily, in light to moderate physical activity for at least 30 minutes per day.

NOTE: Light to moderate physical activity is activity that requires sustained, rhythmic muscular movements, is at least equivalent to sustained walking, and is performed at less than 60 percent of maximum heart rate for age. Maximum heart rate equals roughly 220 beats per minute minus age. Examples may include

walking, swimming, cycling, and dancing; gardening and yardwork; various domestic and occupational activities; and games and other childhood pursuits.

Duplicate objectives: 15.11 and 17.13

1.4: Increase to at least 20 percent the proportion of people aged 18 and older and to at least 75 percent the proportion of children and adolescents aged 6–17 who engage in vigorous physical activity that promotes the development and maintenance of cardiorespiratory fitness 3 or more days per week for 20 or more minutes per occasion.

NOTE: Vigorous physical activities are rhythmic, repetitive physical activities that use large muscle groups at 60 percent or more of maximum heart rate for age. An exercise heart rate of 60 percent of maximum heart rate for age is about 50 percent of maximal cardiorespiratory capacity and is sufficient for cardiorespiratory conditioning. Maximum heart rate equals roughly 220 beats per minute minus age.

1.4a: Increase to at least 12 percent the proportion of lower-income people aged 18 and older (annual family income less than \$20,000) who engage in vigorous physical activity that promotes the development and maintenance of cardiorespiratory fitness 3 or more days per week for 20 or more minutes per occasion.

1.5: Reduce to no more than 15 percent the proportion of people aged 6 and older who engage in no leisure-time physical activity.

NOTE: For this objective, people with disabilities are people who report any limitation in activity due to chronic conditions.

1.5a: Reduce to no more than 22 percent the proportion of people aged 65 and older who engage in no leisure-time physical activity.

1.5b: Reduce to no more than 20 percent the proportion of people with disabilities who engage in no leisure-time physical activity.

1.5c: Reduce to no more than 17 percent the proportion of lower-income people aged 18 and older (annual family income less than \$20,000) who engage in no leisure-time physical activity.

1.6: Increase to at least 40 percent the proportion of people aged 6 and older who regularly perform physical activities that enhance and maintain muscular strength, muscular endurance, and flexibility.

1.7*: Increase to at least 50 percent the proportion of overweight people aged 12 and older who have adopted sound dietary practices combined with regular physical activity to attain an appropriate body weight.

Duplicate objective: 2.7:

1.8: Increase to at least 50 percent the proportion of children and adolescents in 1st–12th grade who participate in daily school physical education.

1.9: Increase to at least 50 percent the proportion of school physical education class time that students spend being physically active, preferably engaged in lifetime physical activities.

NOTE: Lifetime activities are activities that may be readily carried into adulthood because they generally need only one or two people. Examples include swimming, bicycling, jogging, and racquet sports. Also counted as lifetime activities are vigorous social activities such as dancing. Competitive group sports and activities typically played only by young children such as group games are excluded.

1.10: Increase the proportion of worksites offering employer-sponsored physical activity and fitness programs as follows:

| Wksites with — | 2000 target (percent) |
|-----------------------|-----------------------|
| 50–99 employees | 20 |
| 100–249 employees | 35 |
| 250–749 employees | 50 |
| 750 or more employees | 80 |

1.11: Increase community availability and accessibility of physical activity and fitness facilities as follows:

Hiking, biking, and fitness trail miles: 1 per 10,000 people

Public swimming pools: 1 per 25,000 people

Acres of park and recreation open space: 4 per 1,000 people (250 people per managed acre)

1.12: Increase to at least 50 percent the proportion of primary care providers who routinely assess and counsel their patients regarding the frequency, duration, type, and intensity of each patient's physical activity practices.

*Duplicate objective.

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Priority Area 2

Nutrition

Background and Data Summary

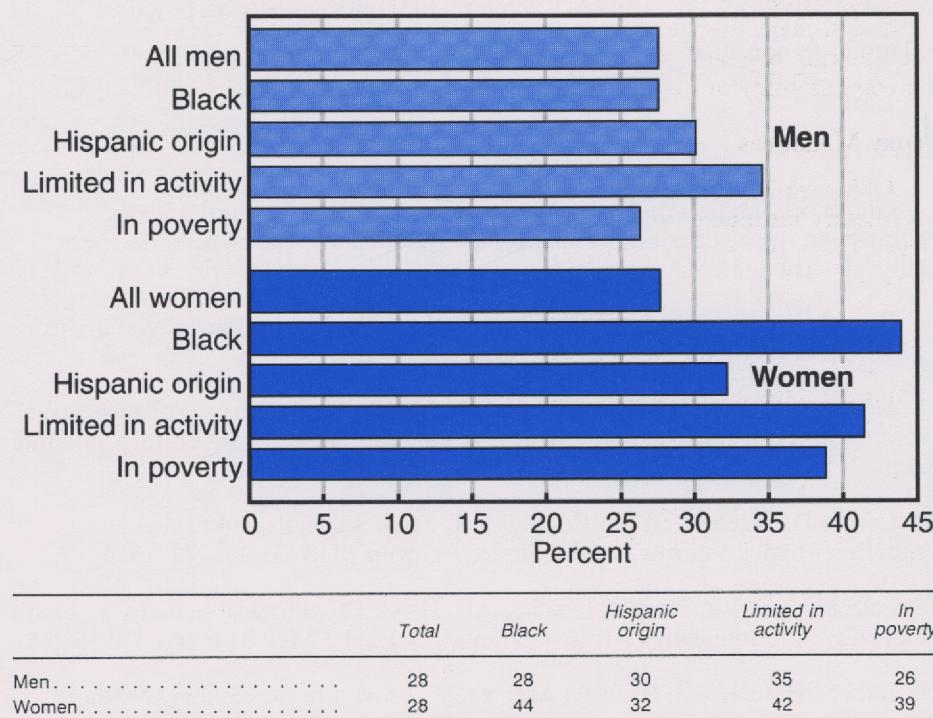
Dietary factors contribute substantially to preventable illness and premature death in the United States. For the majority of adults who do not smoke and do not drink excessively, what they eat is the most significant controllable risk factor affecting their long-term health (1). Five leading causes of death are associated with dietary factors: coronary heart disease, some types of cancer, stroke, noninsulin-dependent diabetes mellitus, and coronary artery disease (2). In general, once-prevalent nutrient deficiencies have been replaced by excesses and imbalances of other food components in the diet. Malnutrition still occurs in some groups of people, however, including those who are isolated or economically deprived.

Of the 21 objectives in this area, progress toward the targets has been made on five (objectives 2.1, 2.4, 2.13, 2.16, and 2.20). Coronary heart disease mortality continues to decline, although the decline is less marked among black Americans. Growth retardation among the high risk subpopulations has decreased, although data for all low income children 5 years and under are not available. More people are examining food labels when purchasing food, and an increased proportion of restaurants are offering low-fat and low-calorie selections. Additionally, the proportion of worksites with 50 or more employees that offer nutrition education and/or weight management programs for employees has increased.

Baselines have been obtained for two objectives (2.12 and 2.18). The new baseline for objective 2.12b (appropriate baby bottle feeding practices among American Indians and Alaska Natives) appears to indicate that the target of 65 percent has been exceeded. See definition of preventive bottle feeding practices (2.12) in priority area 13, duplicate objective 13.11.

Four objectives moved away from the target: cancer mortality (2.2), the

Figure 8. Overweight adults 20–74 years of age according to selected characteristics targeted by year 2000 objective 2.3: United States, 1991



NOTE: Overweight is defined for men as body mass index greater than or equal to 27.8 kilograms/meter and for women as 27.3 kilograms/meter. Weights and heights were self-reported. A related table in *Health, United States, 1992*, is 73.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health Interview Survey.

proportion of the population that is overweight (2.3), the percent of overweight people engaging in weight-loss practices (2.7), and the proportion of breastfeeding mothers (2.11). Dietary fat intake has remained stable (2.5). Progress has been mixed for the proportion of people limiting their salt and sodium intake (2.9).

Five nutrition objectives have no new data (2.6, 2.8, 2.10 excluding 2.10e, 2.15, and 2.21), and three objectives do not yet have complete baseline data (2.14, 2.17, and 2.19).

Data from the third National Health and Nutrition Examination Survey (NHANES III) will provide estimates for objectives 2.6, 2.8, and 2.10.

Data Issues

Comparability of Data Sources

The evaluation of trends in dietary intake is affected by food composition data base changes and food coding decisions made during or between surveys. Trend data for two nutrition objectives have been obtained from different surveys with different methodologies or changes in method administration (2.3 and 2.9). Different food composition data bases were used over time for objective 2.5, although the method was primarily the same. Data for objective 2.7 were obtained from the same survey that asked a different set of questions in

different years (see discussion of duplicate objective 1.7 in priority area 1).

Tracking can also be affected by changing the population from which the survey sample is drawn. Growth retardation among low-income children (2.4) is tracked by the Pediatric Nutrition Surveillance System (PedNSS). PedNSS covered 41 States in 1988 and 46 States in 1991, with plans to expand coverage. The addition of States could affect the comparability of future results.

Proxy Measures

Objective 2.3 (overweight) and 2.5 (dietary fat intake) will be measured by NHANES III. Until these data are available, self-reported data from the National Health Interview Survey for objective 2.3 and provisional estimates from the 1989 Continuing Survey of Food Intakes of Individuals for objective 2.5 are being used for tracking. The comparability of measured overweight and self-reported overweight (2.3) is discussed in priority area 1 (duplicate objective 1.2).

Table 2. Nutrition objective status

| | Objective | 1987 baseline | | | | Target 2000 |
|------|--|---------------------|--------------------------|------------------|------|----------------|
| | | Original | Revised | 1990 | 1991 | |
| 2.1 | Coronary heart disease deaths (age adjusted per 100,000) | 1135 | ^{1,2} No change | 122 | --- | 100 |
| | a. Blacks (age adjusted per 100,000) | 1163 | ^{1,2} 168 | 158 | --- | 115 |
| 2.2 | Cancer deaths (age adjusted per 100,000) | 1133 | ^{1,2} 134 | 135 | --- | 130 |
| 2.3 | Overweight prevalence | | | | | |
| | People 20 years and over | ³ 26% | ... | 27% | 28% | 20% |
| | Males | ³ 24% | ... | 27% | 28% | ... |
| | Females | ³ 27% | ... | 27% | 28% | ... |
| | Adolescents 12–19 years | ³ 15% | ... | --- | --- | 15% |
| | a. Low-income females 20 years and over | ³ 37% | ... | 37% | 39% | 25% |
| | b. Black females 20 years and over | ³ 44% | ... | 42% | 44% | 30% |
| | c. Hispanic females 20 years and over | ... | ⁴ 27% | 33% | 32% | 25% |
| | Mexican-American females | ⁵ 39% | ... | --- | 38% | ... |
| | Cuban females | ⁵ 34% | ... | --- | --- | ... |
| | Puerto Rican females | ⁵ 37% | ... | --- | --- | ... |
| | d. American Indians/Alaska Natives | ⁶ 29–75% | ... | --- | 40% | 30% |
| | e. People with disabilities | ⁴ 36% | ... | --- | 38% | 25% |
| | f. Females with high blood pressure | ³ 50% | ... | --- | --- | 41% |
| | g. Males with high blood pressure | ³ 39% | ... | --- | --- | 35% |
| 2.4 | Growth retardation among low income children 5 years and under | ⁷ 16% | ... | --- | --- | 10% |
| | a. Low-income black children under 1 year | ⁷ 15% | ... | 15% | 15% | 10% |
| | b. Low-income Hispanic children under 1 year | ⁷ 13% | ... | 9% | 8% | 10% |
| | c. Low-income Hispanic children 1 year | ⁷ 16% | ... | 12% | 11% | 10% |
| | d. Low-income Asian/Pacific Islander children 1 year | ⁷ 14% | ... | 14% | 13% | 10% |
| | e. Low-income Asian/Pacific Islander children age 2–4 years | ⁷ 16% | ... | 14% | 12% | 10% |
| 2.5 | Dietary fat intake among people 2 years and over | | | | | |
| | Percent of calories from total fat | --- | ... | --- | --- | 30% |
| | Percent of calories from saturated fat | --- | ... | --- | --- | 10% |
| | People 20–74 years | | | | | |
| | Percent of calories from total fat | ³ 36% | ... | ⁸ 36% | --- | ... |
| | Percent of calories from saturated fat | ³ 13% | ... | ⁸ 13% | --- | ... |
| | Females 19–50 years | | | | | |
| | Percent of calories from total fat | ⁴ 36% | ... | --- | --- | ... |
| | Percent of calories from saturated fat | ⁴ 13% | ... | --- | --- | ... |
| 2.6 | Daily intake of vegetables, fruits, and grain products | | | | | |
| | Adults (number of servings) | | | | | |
| | Vegetables and fruits | --- | ... | --- | --- | 5.0 |
| | Grain products | --- | ... | --- | --- | 6.0 |
| | Females 19–50 years (number of servings) | | | | | |
| | Vegetables and fruits | ⁹ 2.5 | ... | --- | --- | ... |
| | Grain products | ⁹ 3.0 | ... | --- | --- | ... |
| 2.7 | Weight loss practices among overweight people 12 years and over | --- | ... | --- | --- | 50% |
| | Overweight females 18 years and over | ⁴ 30% | ... | 29% | 22% | ... |
| | Overweight males 18 years and over | ⁴ 25% | ... | 22% | 19% | ... |
| 2.8 | Calcium intake | | | | | |
| | 3 or more servings daily | | | | | |
| | People 12–24 years | --- | ... | --- | --- | 50% |
| | Males 19–24 years | ⁹ 14% | ... | --- | --- | ... |
| | Females 19–24 years | ⁹ 7% | ... | --- | --- | ... |
| | Pregnant and lactating females | ⁹ 24% | ... | --- | --- | 50% |
| | 2 or more servings daily | | | | | |
| | People 25 years and over | --- | ... | --- | --- | 50% |
| | Males 25–50 years | ⁹ 23% | ... | --- | --- | ... |
| | Females 25–50 years | ⁹ 15% | ... | --- | --- | ... |
| 2.9 | Salt and sodium intake | | | | | |
| | Prepare foods without adding salt | ⁴ 54% | ... | --- | --- | 65% |
| | Adults who avoid using salt at table | ⁴ 68% | ... | --- | 55% | 80% |
| | Adults who regularly purchase foods lower in sodium | ⁷ 20% | ... | --- | 36% | 40% |
| 2.10 | Iron deficiency | | | | | |
| | Children 1–4 years | --- | ... | --- | --- | 3% |
| | Children 1–2 years | ³ 9% | ... | --- | --- | 3% |

Table 2. Nutrition objective status—Con.

| Objective | 1987 baseline | | | | Target 2000 |
|---|----------------------|-------------------|------|-------------------|----------------|
| | Original | Revised | 1990 | 1991 | |
| Children 3–4 years | 34% | ... | --- | --- | 3% |
| Females of childbearing age (20–44 years) | 35% | ... | --- | --- | 3% |
| Iron deficiency prevalence | | | | | |
| a. Low-income children 1–2 years | 321% | ... | --- | --- | 10% |
| b. Low-income children 3–4 years | 310% | ... | --- | --- | 5% |
| c. Low-income females 20–44 years | 38% | ... | --- | --- | 4% |
| Anemia Prevalence | | | | | |
| d. Alaska Native children 1–5 years | ¹⁰ 22–28% | ... | --- | --- | 10% |
| e. Black, low-income pregnant females 15–44 years (third trimester) | 741% | ... | 41% | 30% | 20% |
| 2.11 Breastfeeding | | | | | |
| During early postpartum period | 754% | ... | 52% | 53% | 75% |
| a. Low-income mothers | 732% | ... | 35% | 33% | 75% |
| b. Black mothers | 725% | ... | 16% | 26% | 75% |
| c. Hispanic mothers | 751% | ... | 44% | 52% | 75% |
| d. American Indian/Alaska Native mothers | 747% | ... | 47% | 46% | 75% |
| At age 5–6 months | 721% | ... | 18% | 18% | 50% |
| a. Low-income mothers | 79% | ... | 8% | 9% | 50% |
| b. Black mothers | 78% | ... | 7% | 7% | 50% |
| c. Hispanic mothers | 716% | ... | 14% | 16% | 50% |
| d. American Indian/Alaska Native mothers | 728% | ... | 27% | 22% | 50% |
| 2.12 Baby bottle tooth decay | | | | | |
| Parents and caregivers who use preventive feeding practices | ... | ¹¹ 51% | --- | --- | 75% |
| a. Parents and caregivers with less than high school education | ... | ¹¹ 31% | --- | --- | 65% |
| b. American Indian/Alaska Native parents and caregivers | ... | ¹² 74% | --- | --- | 65% |
| 2.13 Use of food labels | 774% | ... | 76% | --- | 85% |
| 2.14 Informative nutrition labeling | | | | | |
| Processed foods | 760% | ... | --- | --- | 100% |
| Fresh and carry-away foods | --- | ... | --- | --- | 40% |
| 2.15 Availability of reduced-fat processed foods | ¹³ 2,500 | ... | --- | --- | 5,000 |
| 2.16 Low-fat, low-calorie restaurant food choices | 870% | ... | 75% | --- | 90% |
| 2.17 Nutritious school and child care food services | --- | ... | --- | --- | 90% |
| 2.18 Home-delivered meals for older adults | ... | ¹¹ 7% | --- | --- | 80% |
| 2.19 Nutrition education in schools | --- | ... | --- | --- | 75% |
| 2.20 Worksite nutrition/weight management programs | | | | | |
| Nutrition education | 417% | ... | --- | ¹⁴ 31% | 50% |
| Weight control | 415% | ... | --- | ¹⁴ 24% | 50% |
| 2.21 Nutrition assessment, counseling, and referral by clinicians | ⁷ 40–50% | ... | --- | --- | 75% |

¹1987 data.²Data have been recomputed to reflect revised intercensal population estimates; see *Health, United States, 1992*, Appendix I.³1976–80 data.⁴1985 data.⁵1982–84 data.⁶1984–88 data for different tribes.⁷1988 data.⁸1989 data.⁹1985–86 data.¹⁰1983–85 data.¹¹1991 data.¹²1985–89 data.¹³1986 data.¹⁴1992 data.

NOTE: Data sources are in table C.

Nutrition Objectives

2.1*: Reduce coronary heart disease deaths to no more than 100 per 100,000 people.

Duplicate objectives: 1.1, 3.1, and 15.1

2.1a*: Reduce coronary heart disease deaths among blacks to no more than 115 per 100,000 people.

Duplicate objectives: 1.1a, 3.1a, and 15.1a

2.2*: Reverse the rise in cancer deaths to achieve a rate of no more than 130 per 100,000 people.

NOTE: In its publications, the National Cancer Institute age adjusts cancer death rates to the 1970 U.S. population. Using the 1970 standard, the equivalent target value for this objective would be 175 per 100,000.

Duplicate objective: 16.1

2.3*: Reduce overweight to a prevalence of no more than 20 percent among people aged 20 and older and no more than 15 percent among adolescents aged 12–19.

NOTE: For people aged 20 and older, overweight is defined as body mass index (BMI) equal to or greater than 27.8 for men and 27.3 for women. For adolescents, overweight is defined as BMI equal to or greater than 23.0 for males aged 12–14, 24.3 for males aged 15–17, 25.8 for males aged 18–19, 23.4 for females aged 12–14, 24.8 for females aged 15–17, and 25.7 for females aged 18–19. The values for adolescents are the age- and sex-specific 85th percentile values of the 1976–80 National Health and Nutrition Examination Survey (NHANES II), corrected for sample variation. BMI is calculated by dividing weight in kilograms by the square of height in meters. The cut points used to define overweight approximate the 120 percent of desirable body weight definition used in the 1990 objectives.

Duplicate objectives: 1.2, 15.10, and 17.12

2.3a*: Reduce overweight to a prevalence of no more than 25 percent among low-income women aged 20 and older.

Duplicate objectives: 1.2a, 15.10a, and 17.12a

2.3b*: Reduce overweight to a prevalence of no more than 30 percent among black women aged 20 and older.

Duplicate objectives: 1.2b, 15.10b, and 17.12b

2.3c*: Reduce overweight to a prevalence of no more than 25 percent among Hispanic women aged 20 and older.

Duplicate objectives: 1.2c, 15.10c, and 17.12c

2.3d*: Reduce overweight to a prevalence of no more than 30 percent among American Indians and Alaska Natives.

Duplicate objectives: 1.2d, 15.10d, and 17.12d

2.3e*: Reduce overweight to a prevalence of no more than 25 percent among people with disabilities.

Duplicate objectives: 1.2e, 15.10e, and 17.12e

2.3f*: Reduce overweight to a prevalence of no more than 41 percent among women with high blood pressure.

Duplicate objectives: 1.2f, 15.10f, and 17.12f

2.3g*: Reduce overweight to a prevalence of no more than 35 percent among men with high blood pressure.

Duplicate objectives: 1.2g, 15.10g, and 17.12g

2.4: Reduce growth retardation among low-income children aged 5 and younger to less than 10 percent.

NOTE: Growth retardation is defined as height-for-age below the fifth percentile of children in the National Center for Health Statistics' reference population.

2.4a: Reduce growth retardation among low-income black children younger than age 1 to less than 10 percent.

2.4b: Reduce growth retardation among low-income Hispanic children younger than age 1 to less than 10 percent.

2.4c: Reduce growth retardation among low-income Hispanic children aged 1 to less than 10 percent.

2.4d: Reduce growth retardation among low-income Asian and Pacific Islander children aged 1 to less than 10 percent.

2.4e: Reduce growth retardation among low-income Asian and Pacific Islander children aged 2–4 to less than 10 percent.

2.5*: Reduce dietary fat intake to an average of 30 percent of calories or less and average saturated fat intake to less than 10 percent of calories among people aged 2 and older.

Duplicate objectives: 15.9 and 16.7

2.6*: Increase complex carbohydrate and fiber-containing foods in the diets of adults to five or more daily servings for vegetables (including legumes) and fruits, and to six or more daily servings for grain products.

Duplicate objective: 16.8

2.7*: Increase to at least 50 percent the proportion of overweight people aged 12 and older who have adopted sound dietary practices combined with regular physical activity to attain an appropriate body weight.

Duplicate objective: 1.7

2.8: Increase calcium intake so at least 50 percent of youth aged 12–24 and 50 percent of pregnant and lactating women consume three or more servings daily of foods rich in calcium, and at least 50 percent of people aged 25 and older consume two or more servings daily.

NOTE: The number of servings of foods rich in calcium is based on milk and milk products. A serving is considered to be 1 cup of skim milk or its equivalent in calcium (302 mg). The number of servings in this objective will generally provide approximately three-fourths of the 1989 Recommended Dietary Allowance (RDA) of calcium. The RDA is 1200 mg for people aged 12 through 24 years, 800 mg for people aged 25 and older, and 1200 mg for pregnant and lactating women.

2.9: Decrease salt and sodium intake so at least 65 percent of home meal preparers prepare foods without adding salt, at least 80 percent of people avoid using salt at the table, and at least 40 percent of adults regularly purchase foods modified or lower in sodium.

2.10: Reduce iron deficiency to less than 3 percent among children aged 1 through 4 and among women of childbearing age.

NOTE: Iron deficiency is defined as having abnormal results for two or more of the following tests: mean corpuscular volume, erythrocyte protoporphyrin, and transferrin saturation. Anemia is used as an index of iron deficiency. Anemia among Alaska Native children and among pregnant women in the third trimester was defined as hemoglobin less than 11 gm/dL or hematocrit less than 33 percent. For children and pregnant women, hematology is adjusted for altitude. In pregnant and non-pregnant women, hematology is also adjusted for smoking status. The above prevalences of iron deficiency and anemia may be due to inadequate dietary iron intakes or to inflammatory conditions and infections. For anemia, genetics may also be a factor.

2.10a: Reduce iron deficiency to less than 10 percent among low-income children aged 1–2.

2.10b: Reduce iron deficiency to less than 5 percent among low-income children aged 3–4.

2.10c: Reduce iron deficiency to less than 4 percent among low-income women of childbearing age.

2.10d: Reduce the prevalence of anemia to less than 10 percent among Alaska Native children aged 1–5.

2.10e: Reduce the prevalence of anemia to less than 20 percent among black, low-income pregnant women (third trimester).

2.11*: Increase to at least 75 percent the proportion of mothers who breastfeed their babies in the early postpartum period and to at least 50 percent the proportion who continue breastfeeding until their babies are 5 to 6 months old.

Duplicate objective: 14.9

2.11a*: Increase to at least 75 percent the proportion of low-income mothers who breastfeed their babies in the early postpartum period and to at least 50 percent the proportion who continue breastfeeding until their babies are 5 to 6 months old.

Duplicate objective: 14.9a

2.11b*: Increase to at least 75 percent the proportion of black mothers who breastfeed their babies in the early postpartum period and to at least 50 percent the proportion who continue breastfeeding until their babies are 5 to 6 months old.

Duplicate objective: 14.9b

2.11c*: Increase to at least 75 percent the proportion of Hispanic mothers who breastfeed their babies in the early postpartum period and to at least 50 percent the proportion who continue breastfeeding until their babies are 5 to 6 months old.

Duplicate objective: 14.9c

2.11d*: Increase to at least 75 percent the proportion of American Indian and Alaska Native mothers who breastfeed their babies in the early postpartum period and to at least 50 percent the proportion who continue breastfeeding until their babies are 5 to 6 months old.

Duplicate objective: 14.9d

2.12*: Increase to at least 75 percent the proportion of parents and caregivers who use feeding practices that prevent baby bottle tooth decay.

Duplicate objective: 13.11

2.12a*: Increase to at least 65 percent the proportion of parents and caregivers with less than a high school education who use feeding practices that prevent baby bottle tooth decay.

Duplicate objective: 13.11a

2.12b*: Increase to at least 65 percent the proportion of American Indian and Alaska Native parents and caregivers who use feeding practices that prevent baby bottle tooth decay.

Duplicate objective: 13.11b

2.13: Increase to at least 85 percent the proportion of people aged 18 and older who use food labels to make nutritious food selections.

2.14: Achieve useful and informative nutrition labeling for virtually all processed foods and at least 40 percent of fresh meats, poultry, fish, fruits, vegetables, baked goods, and ready-to-eat carry-away foods.

2.15: Increase to at least 5,000 brand items the availability of processed food products that are reduced in fat and saturated fat.

NOTE: A brand item is defined as a particular flavor and/or size of a specific brand and is typically the consumer unit of purchase.

2.16: Increase to at least 90 percent the proportion of restaurants and institutional food service operations that offer identifiable low-fat, low-calorie food choices, consistent with the Dietary Guidelines for Americans.

2.17: Increase to at least 90 percent the proportion of school lunch and breakfast services and child care food services with menus that are consistent with the nutrition principles in the Dietary Guidelines for Americans.

2.18: Increase to at least 80 percent the receipt of home food services by people aged 65 and older who have difficulty in preparing their own meals or are otherwise in need of home-delivered meals.

2.19: Increase to at least 75 percent the proportion of the Nation's schools that provide nutrition education from preschool–12th grade, preferably as part of quality school health education.

2.20: Increase to at least 50 percent the proportion of worksites with 50 or more employees that offer nutrition education and/or weight management programs for employees.

2.21: Increase to at least 75 percent the proportion of primary care providers who provide nutrition assessment and counseling and/or referral to qualified nutritionists or dietitians.

References

1. U.S. Department of Health and Human Services. The Surgeon General's report on nutrition and health. Washington: Public Health Service. 1988.
2. U.S. Department of Health and Human Services. Healthy people 2000: National health promotion and disease prevention objectives. Washington: Public Health Service. 1991.

Priority Area 3

Tobacco

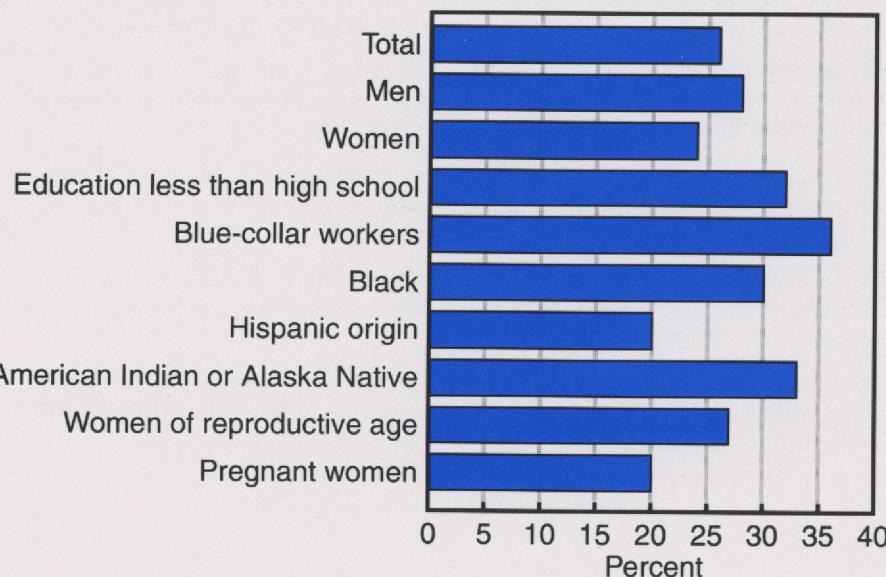
Background and Data Summary

Tobacco use is responsible for more than one of every six deaths in the United States and is the most important single preventable cause of death and disease in our society (1). Cigarette smoking accounts for about 434,000 deaths yearly (2) including 21 percent of all coronary heart disease deaths, 87 percent of all lung cancer deaths, and 82 percent of all deaths from chronic obstructive pulmonary disease (1).

Smoking contributes substantially to chronic morbidity and disability as well. For example, in 1983-85, chronic bronchitis, emphysema, and lung cancer were the main causes of activity limitation for nearly 4 per 1,000 people in the United States and accounted for nearly 3 percent of all activity limitation (3). Cigarette smoking during pregnancy accounts for 29 to 42 percent of low-birth weight babies (4). Passive or involuntary smoking also causes disease, including lung cancer in healthy nonsmokers and respiratory problems in young children and infants. The prevalence of smoking among adults decreased from 40 percent in 1965 to 26 percent in 1991; however, the decline has been substantially slower among women than among men. The prevalence of smoking also remains disproportionately high among blue-collar workers, military personnel and American Indians and Alaska Natives.

Recent data show some progress towards achieving the objectives in the tobacco priority area. Data for eight objectives (3.1, 3.3, 3.4, 3.5, 3.6, 3.11, 3.12, and 3.13) show improvements toward the year 2000 targets. This includes declining mortality from coronary heart disease (3.1). However, coronary heart disease mortality is declining more slowly among black persons; a substantial decline must occur to achieve the year 2000 target for this population. Objectives 3.2 and 3.3 address slowing the rise of deaths due to lung cancer and chronic obstruc-

Figure 9. Current cigarette smokers among persons 20 years of age and over, according to selected characteristics targeted by year 2000 objective 3.4: United States, 1991



| Characteristics | Percent |
|---|---------|
| Total | 26 |
| Men. | 28 |
| Women. | 24 |
| Education less than high school | 32 |
| Blue-collar workers | 36 |
| Black | 30 |
| Hispanic origin | 20 |
| American Indian or Alaska Native. | 33 |
| Women 18-44 years | 27 |
| Pregnant women | 20 |

NOTE: Related tables in *Health, United States, 1992*, are 64-67.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health Interview Survey.

pulmonary disease. If the current rate of increase in chronic obstructive lung disease mortality is maintained or reduced, the target for objective 3.3 will be met. No progress was observed toward slowing the rise of lung cancer deaths (3.2); nor was progress observed for objective 3.7.

Progress was mixed regarding smokeless tobacco use among youth (3.9). Smokeless tobacco use among adolescents aged 12-17 years declined over the period 1988 to 1991, but increased slightly among young men aged 18-24 years. Data beyond

baseline were not available for five objectives (3.8, 3.10, 3.14, 3.15, and 3.16).

Data Issues

Definitions

The proportion of people aged 20-24 years who smoke cigarettes regularly is used as a proxy measure for initiation of cigarette smoking by children and youth (objective 3.5). A

regular cigarette smoker is defined as a person who has smoked at least 100 cigarettes and who smokes currently.

The baseline for objective 3.7 (cessation of cigarette smoking early in pregnancy, with abstinence throughout pregnancy) is from a 1986 telephone interview of white women selected from the respondents to the 1985 National Health Interview Survey (NHIS) (5). Beginning with 1991, progress toward the target is being tracked using periodic supplements to the NHIS. The two surveys used different definitions for smoking before pregnancy and for the duration of quitting during pregnancy. The 1991 measure, focused on women who quit during the first trimester, is closer to the objective, but not comparable to the 1986 baseline that counted women who quit any time during pregnancy.

Comparability of Data Sources

Information on objective 3.9 (smokeless tobacco use by males 12–24 years of age) is tracked by a combination of two surveys. Males 12–17 years of age are tracked by the National Household Survey on Drug Abuse (NHSDA). In this survey smokeless tobacco use is defined as any use of snuff or chewing tobacco in the preceding month. For males 18–24 years of age information is obtained from the National Health Interview Survey. A smokeless tobacco user is someone who has used either snuff or chewing tobacco at least 20 times and who currently uses either of these substances. However, information for males 18–25 years of age is also available from the NHSDA using the same definition as for the younger age group. As measured in the NHIS the proportion of men 18–24 years of age using smokeless tobacco increased from 8.9 percent in 1987 to 9.9 percent in 1991. The proportion among men 18–25 years of age was higher and decreased from 1988 to 1991 according to the NHSDA (12.3 percent in 1988 and 11.6 percent in 1991); differences may be due to sampling error.

Table 3. Tobacco objective status

| Objective | 1987 baseline | | 1990 | 1991 | Target 2000 |
|---|-----------------------|------------------------|-------|--------|----------------|
| | Original | Revised | | | |
| 3.1 Coronary heart disease deaths (age adjusted per 100,000) | 135 | ¹ No change | 122 | --- | 100 |
| a. Blacks (age adjusted per 100,000) | 163 | ¹¹ 68 | 158 | --- | 115 |
| 3.2 Lung cancer deaths (age adjusted per 100,000) | 37.9 | ¹³ 8.5 | 39.9 | --- | 42 |
| 3.3 Slow the rise in chronic obstructive pulmonary disease deaths (age adjusted per 100,000) | 18.7 | ¹¹ 8.9 | 19.7 | --- | 25 |
| 3.4 Cigarette smoking prevalence | | | | | |
| People 20 years and over | 29% | ... | 26% | 26% | 15% |
| Males | 32% | ... | 28% | 28% | ... |
| Females | 27% | ... | 23% | 24% | ... |
| a. People with high school education or less 20 years and over | 34% | ... | 31% | 32% | 20% |
| b. Blue-collar workers 20 years and over | 36% | ... | 37% | 36% | 20% |
| c. Military personnel | 242% | ... | --- | 335% | 20% |
| d. Blacks 20 years and over | 34% | ... | 27% | 30% | 18% |
| e. Hispanics 20 years and over | 433% | ... | 24% | 20% | 18% |
| f. American Indians/Alaska Natives | ⁵ 42-70% | ... | 38% | 33% | 20% |
| g. Southeast Asian males | 655% | ... | 735% | --- | 20% |
| h. Females of reproductive age (18-44 years) | 29% | ... | 26% | 27% | 12% |
| i. Pregnant females | 825% | ... | 19% | 20% | 10% |
| j. Females who use oral contraceptives | 936% | ... | 226% | --- | 10% |
| 3.5 Smoking initiation by children and adolescents | 30% | ... | 26% | 24% | 15% |
| a. Lower socioeconomic status people 20-24 years | 40% | ... | 35% | 31% | 18% |
| 3.6 Smoking cessation attempts | 1034% | ... | 1134% | 39% | 50% |
| 3.7 Smoking cessation during pregnancy | 839% | ... | --- | 31% | 60% |
| a. Females with less than a high school education | 8,1228% | ... | --- | 21% | 45% |
| 3.8 Children's exposure to smoke at home | 1039% | ... | --- | --- | 20% |
| 3.9 Smokeless tobacco use | | | | | |
| Males 12-17 years | 26.6% | ... | --- | 13.53% | 4% |
| Males 18-24 years | 148.9% | ... | --- | 9.9% | 4% |
| a. American Indian/Alaska Native people 18-24 years | ¹⁵ 18-64% | ... | --- | 19.7% | 10% |
| 3.10 Tobacco-use prevention education and tobacco-free schools | | | | | |
| Tobacco free schools | 217% | ... | --- | --- | 100% |
| Tobacco use prevention curricula | | | | | |
| High school level | 278% | ... | --- | --- | 100% |
| Middle school | 281% | ... | --- | --- | 100% |
| Elementary school | 275% | ... | --- | --- | 100% |
| 3.11 Worksite smoking policies | --- | ... | --- | --- | 75% |
| 50 or more employees | 827% | ... | --- | 359% | ... |
| Medium and large companies | 54% | ... | --- | 85% | ... |
| 3.12 Clean indoor air laws | | | | | |
| Number of States with laws restricting smoking in public places | ^{2,16} 42 | ... | --- | 1644 | 1650 |
| Number of States with restricted smoking in public workplaces | ² 31 | ... | --- | 1635 | 1650 |
| Number of States with laws regulating smoking in private and public worksites | ² 13 | ... | --- | 1616 | 1650 |
| 3.13 Laws prohibiting tobacco products sale and distribution to children 18 years and under | ¹⁷ 44 | ... | --- | 1648 | 50 |
| 3.14 Number of States with plans to reduce tobacco use | ¹⁸ 12 | ... | --- | --- | 50 |
| 3.15 Tobacco product advertising and promotion to youth | ¹⁷ Minimal | ... | --- | --- | Eliminate |
| 3.16 Cessation counseling and follow-up by clinicians | | | | | |
| Primary care | 10,1952% | ... | --- | --- | 75% |
| Oral health care | 10,2035% | ... | --- | --- | 75% |

¹Data have been recomputed to reflect revised intercensal population estimates; see *Health, United States, 1992*, Appendix I.

²1988 data.

³1992 data.

⁴1982-84 data.

⁵1979-87 data.

⁶1984-88 data.

⁷Vietnamese males only.

⁸1985 data.

⁹1983 data.

¹⁰1986 data.

¹¹1987 data.

¹²Baseline for white females 20-44 years.

¹³Used in past month.

¹⁴1987-88 data.

¹⁵1986-87 data.

¹⁶Includes D.C.

¹⁷1990 data.

¹⁸1989 data.

¹⁹Counseling more than 75 percent of smoking patients.

²⁰Counseling at least 75 percent of smoking patients.

NOTE: Data sources are in table C.

Tobacco Objectives

3.1*: Reduce coronary heart disease deaths to no more than 100 per 100,000 people.

Duplicate objectives: 1.1, 2.1, and 15.1

3.1a*: Reduce coronary heart disease deaths among blacks to no more than 115 per 100,000 people.

Duplicate objectives: 1.1a, 2.1a, and 15.1a

3.2*: Slow the rise in lung cancer deaths to achieve a rate of no more than 42 per 100,000 people.

NOTE: In its publications, the National Cancer Institute age adjusts cancer death rates to the 1970 U.S. population. Using the 1970 standard, the equivalent target value for this objective would be 53 per 100,000.

Duplicate objective: 16.2

3.3: Slow the rise in deaths from chronic obstructive pulmonary disease to achieve a rate of no more than 25 per 100,000 people.

NOTE: Deaths from chronic obstructive pulmonary disease include deaths due to chronic bronchitis, emphysema, asthma, and other chronic obstructive pulmonary diseases and allied conditions.

3.4*: Reduce cigarette smoking to a prevalence of no more than 15 percent among people aged 20 and older.

NOTE: A cigarette smoker is a person who has smoked at least 100 cigarettes and currently smokes cigarettes.

Duplicate objectives: 15.12 and 16.6

3.4a*: Reduce cigarette smoking to a prevalence of no more than 20 percent among people with a high school education or less aged 20 and older.

Duplicate objectives: 15.12a and 16.6a

3.4b*: Reduce cigarette smoking to a prevalence of no more than 20 percent among blue-collar workers aged 20 and older.

Duplicate objectives: 15.12b and 16.6b

3.4c*: Reduce cigarette smoking to a prevalence of no more than 20 percent among military personnel.

Duplicate objectives: 15.12c and 16.6c

3.4d*: Reduce cigarette smoking to a prevalence of no more than 18 percent among blacks aged 20 and older.

Duplicate objectives: 15.12d and 16.6d

3.4e*: Reduce cigarette smoking to a prevalence of no more than 18 percent among Hispanics aged 20 and older.

Duplicate objectives: 15.12e and 16.6e

3.4f*: Reduce cigarette smoking to a prevalence of no more than 20 percent among American Indians and Alaska Natives.

Duplicate objectives: 15.12f and 16.6f

3.4g*: Reduce cigarette smoking to a prevalence of no more than 20 percent among Southeast Asian men.

Duplicate objectives: 15.12g and 16.6g

3.4h*: Reduce cigarette smoking to a prevalence of no more than 12 percent among women of reproductive age.

Duplicate objectives: 15.12h and 16.6h

3.4i*: Reduce cigarette smoking to a prevalence of no more than 10 percent among pregnant women.

Duplicate objectives: 15.12i and 16.6i

3.4j*: Reduce cigarette smoking to a prevalence of no more than 10 percent among women who use oral contraceptives.

Duplicate objectives: 15.12j and 16.6j

3.5: Reduce the initiation of cigarette smoking by children and youth so that no more than 15 percent have become regular cigarette smokers by age 20.

3.5a: Reduce the initiation of cigarette smoking by lower socioeconomic status youth so that no more than 18 percent have become regular cigarette smokers by age 20.

3.6: Increase to at least 50 percent the proportion of cigarette smokers aged 18 and older who stopped smoking cigarettes for at least one day during the preceding year.

3.7: Increase smoking cessation during pregnancy so that at least 60 percent of women who are cigarette smokers at the time they become pregnant quit smoking early in pregnancy and maintain abstinence for the remainder of their pregnancy.

3.7a: Increase smoking cessation during pregnancy so that at least 45 percent of women with less than a high school education who are cigarette smokers at the time they become pregnant quit smoking early in pregnancy and maintain abstinence for the remainder of their pregnancy.

3.8: Reduce to no more than 20 percent the proportion of children aged 6 and younger who are regularly exposed to tobacco smoke at home.

NOTE: Regular exposure to tobacco smoke at home is defined as the occurrence of tobacco smoking anywhere in the home on more than three days each week.

3.9: Reduce smokeless tobacco use by males aged 12–24 to a prevalence of no more than 4 percent.

NOTE: For males aged 12–17, a smokeless tobacco user is someone who has used snuff or chewing tobacco in the preceding month. For males aged 18–24, a smokeless tobacco user is someone who has used either snuff or chewing tobacco at least 20 times and who currently uses snuff or chewing tobacco.

3.9a: Reduce smokeless tobacco use by American Indian and Alaska Native youth to a prevalence of no more than 10 percent.

3.10: Establish tobacco-free environments and include tobacco use prevention in the curricula of all elementary, middle, and secondary schools, preferably as part of quality school health education.

3.11: Increase to at least 75 percent the proportion of worksites with a formal smoking policy that prohibits or severely restricts smoking at the workplace.

3.12: Enact in 50 States comprehensive laws on clean indoor air that prohibit or strictly limit smoking in the workplace and enclosed public places (including health care facilities, schools, and public transportation).

3.13: Enact and enforce in 50 States laws prohibiting the sale and distribution of tobacco products to youth younger than age 19.

NOTE: Model legislation proposed by the Department of Health and Human Services (DHHS) recommends licensure of tobacco vendors, civil money penalties and license suspension or revocation for violations, and a ban on cigarette vending machines.

3.14: Increase to 50 the number of States with plans to reduce tobacco use, especially among youth.

3.15: Eliminate or severely restrict all forms of tobacco product advertising and promotion to which youth younger than age 18 are likely to be exposed.

3.16: Increase to at least 75 percent the proportion of primary care and oral health care providers who routinely advise cessation and provide assistance and followup for all of their tobacco-using patients.

*Duplicate objective.

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Priority Area 4 Alcohol and Other Drugs

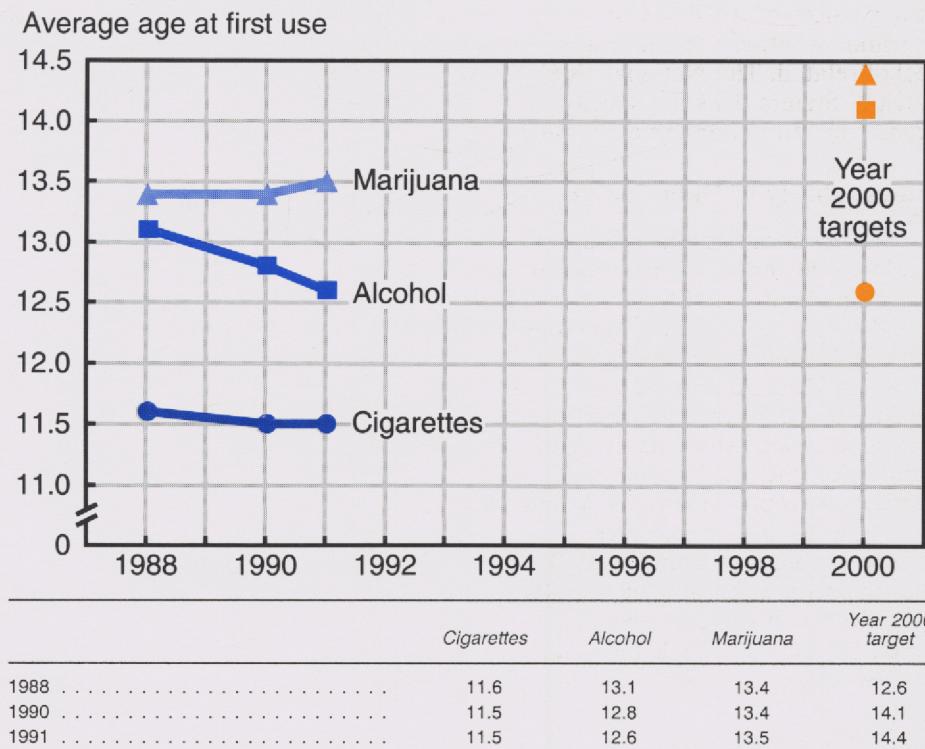
Background and Data Summary

Large numbers of Americans have used illicit drugs and misused alcohol; these behaviors can have serious health and social consequences. Alcohol is implicated in nearly half of all deaths caused by motor vehicle crashes and fatal intentional injuries such as suicides and homicides (1). Alcohol is the principal contributor to cirrhosis, the ninth leading cause of death in the United States in 1990 (2, table 30). Intravenous drug users and their sexual partners are at high risk of infection with the human immunodeficiency virus.

The 1991 National Household Survey on Drug Abuse estimated that 19.5 million Americans had used marijuana in the past year, and 67.7 million had tried marijuana at least once (3). In the same year an estimated 23.7 million people had a history of cocaine use. 1991 data for objective 4.7 show that heavy alcohol use is very common among young people; 30 percent of high school seniors and 43 percent of college students had five or more drinks on one occasion in the previous 2-week period (a related table in *Health, United States* is 67).

Recent data indicate that progress is being made toward improving alcohol and other drug problems. Eight objectives (4.2, 4.3, 4.6, 4.8, 4.9, 4.10, 4.11, and 4.15) show improvement toward the year 2000 targets, and objective 4.1 has surpassed the target. Average age at first use among adolescents aged 12–17 years did not change substantially for either cigarettes or marijuana but declined markedly for alcohol (4.5). Heavy alcohol consumption has decreased among high school seniors but has increased among college students (4.7). New data were available to establish baseline information for two objectives, drug-related emergency room visits (4.4) and work sites with alcohol and other drug policies (4.14).

Figure 10. Average age of first use of cigarettes, alcohol, and marijuana by adolescents 12–17 years of age: United States, 1988–91 and year 2000 targets for objective 4.5



SOURCE: National Institute for Drug Abuse, National Household Survey of Drug Abuse.

No new data were available for two objectives (4.13 and 4.18) in this priority area; four objectives (4.12, 4.16, 4.17, and 4.19) have no baseline data.

to less specific categories such as 571.8 and 571.9. Estimates of the proportion of all cirrhosis deaths that are alcohol-related range from 41 to 95 percent (4).

Data from the National Vital Statistics System are used to track drug-related deaths (objective 4.3). Although the objective discusses drug-related deaths, it is tracked by a category of deaths that is more accurately called "drug-induced deaths" (a related table in *Health, United States* is 28). The category includes deaths whose underlying cause was drug dependence, nondependent use of drugs, and poisoning from drugs, all of which may include medically prescribed drugs. It excludes accidents,

Data Issues

Definitions

Cirrhosis deaths are tracked in objective 4.2 as an indicator of abusive alcohol consumption. The tracking variable included all deaths coded to ICD-9 571.0–571.9. This variable is more inclusive than alcoholic liver disease and cirrhosis (571.0–571.3). Alcohol-related liver disease is underreported; a significant proportion of these deaths are coded

homicides, and other causes indirectly related to drug use.

Data Source Description

Alcohol-related motor vehicle crashes (4.1) are tracked using data from the Department of Transportation's Fatal Accident Reporting System (FARS). The FARS supplements death certificate data with information on the circumstances of the death to determine whether the death was alcohol related. The National Vital Statistics System does not specify alcohol-related motor vehicle crashes.

Comparability of Data Sources

Alcohol consumption among people 18–20 years of age increased from 52 percent in 1990 to 57 percent in 1991. However, because the scope of the 1991 National Household Survey on Drug Abuse, used to measure this objective, was expanded to include college students living in dormitories, the results are not comparable to previous years. When the subsample of these college students is removed from the 1991 data, the proportion of young adults using alcohol in the past month (53 percent) is only slightly higher than the 1990 figure.

Table 4. Alcohol and other drugs objective status

| | Objective | 1987 baseline | | | | Target 2000 |
|------|---|--------------------|--------------------|-------------------|-----------------|-----------------|
| | | Original | Revised | 1990 | 1991 | |
| 4.1 | Alcohol-related motor vehicle deaths (per 100,000) | 9.8 | ... | 8.9 | 7.9 | 8.5 |
| a. | American Indian/Alaska Native males | 52.2 | ¹ 40.4 | --- | --- | 44.8 |
| b. | People 15–24 years | 21.5 | ... | 18.5 | --- | 18.0 |
| 4.2 | Cirrhosis deaths (age adjusted per 100,000) | 9.1 | ² 9.2 | 8.6 | --- | 6.0 |
| a. | Black males..... | 22.0 | ² 22.6 | 20.0 | --- | 12.0 |
| b. | American Indians/Alaska Natives..... | 25.9 | ¹ 20.5 | 19.8 | --- | 13.0 |
| | | | ² No | | | |
| 4.3 | Drug-related deaths (age adjusted per 100,000) | 3.8 | change | 3.6 | --- | 3.0 |
| 4.4 | Drug abuse-related emergency room visits (per 100,000) | ... | ³ 164.9 | --- | --- | 131.9 |
| 4.5 | Average age of first use (adolescents 12–17 years) | | | | | |
| | Cigarettes | ⁴ 11.6 | ... | 11.5 | 11.5 | 12.6 |
| | Alcohol..... | ⁴ 13.1 | ... | 12.8 | 12.6 | 14.1 |
| | Marijuana..... | ⁴ 13.4 | ... | 13.4 | 13.5 | 14.4 |
| 4.6 | Use in past month by children and adolescents | | | | | |
| | Alcohol | | | | | |
| | 12–17 years..... | ⁴ 25.2% | ... | 24.5% | 20.3% | 12.6% |
| | 18–20 years..... | ⁴ 57.9% | ... | 52.3% | 57.0% | 29.0% |
| | Marijuana | | | | | |
| | 12–17 years..... | ⁴ 6.4% | ... | 5.2% | 4.3% | 3.2% |
| | 18–25 years..... | ⁴ 15.5% | ... | 12.7% | 13.0% | 7.8% |
| | Cocaine | | | | | |
| | 12–17 years..... | ⁴ 1.1% | ... | 0.6% | 0.4% | 0.6% |
| | 18–25 years..... | ⁴ 4.5% | ... | 2.2% | 2.0% | 2.3% |
| 4.7 | Heavy drinking in past 2 weeks | | | | | |
| | High school seniors | ⁵ 33.0% | ... | 32.2% | 29.8% | 28.0% |
| | College students..... | ⁵ 41.7% | ... | 41.0% | 42.8% | 32.0% |
| 4.8 | Alcohol consumption (gallons per capita) | 2.54 | ... | ⁵ 2.46 | --- | 2.0 |
| 4.9 | Perception of social disapproval by high school seniors | | | | | |
| | Heavy use of alcohol | ⁵ 56.4% | ... | 68.9% | 67.4% | 70.0% |
| | Occasional use of marijuana | ⁵ 71.1% | ... | 80.5% | 79.4% | 85.0% |
| | Trying cocaine once or twice | ⁵ 88.9% | ... | 91.5% | 88.0% | 95.0% |
| 4.10 | Perception of harm by high school seniors | | | | | |
| | Heavy use of alcohol | ⁵ 44.0% | ... | 47.1% | 48.6% | 70.0% |
| | Occasional use of marijuana | ⁵ 77.5% | ... | 77.8% | 78.6% | 90.0% |
| | Trying cocaine once or twice | ⁵ 54.9% | ... | 59.4% | 59.4% | 80.0% |
| 4.11 | Anabolic steroid use (ever used in lifetime) | | | | | |
| | Male high school seniors | ⁵ 4.7% | ... | 5.0% | 3.6% | 3.0% |
| 4.12 | Number of States with access to treatment programs | --- | ... | --- | --- | 50 |
| 4.13 | Alcohol and drug education in schools | --- | ... | --- | --- | 100% |
| | Provided students with some instruction | 63% | ... | --- | --- | ... |
| | Provided students with counseling..... | 39% | ... | --- | --- | ... |
| | Referred students for clinical assessments | 23% | ... | --- | --- | ... |
| 4.14 | Worksite alcohol and drug policies | | | | | |
| | Alcohol..... | ... | ⁶ 88% | --- | --- | 60% |
| | Other Drugs..... | ... | ⁶ 89% | --- | --- | 60% |
| 4.15 | Number of States with administrative license suspension/revocation laws | ^{7,8} 28 | ... | --- | ⁸ 29 | ⁸ 50 |
| 4.16 | Number of States with policies to reduce minors' access to alcohol | --- | ... | --- | --- | 50 |
| 4.17 | Number of States with restrictions on promotion of alcohol to children and adolescents | --- | ... | --- | --- | 20 |
| 4.18 | Number of States with 0.04 alcohol concentration tolerance levels .. | ⁷ 0 | ... | --- | --- | 50 |
| | Number of States with 0.00 alcohol concentration tolerance levels | ⁷ 0 | ... | --- | --- | 50 |
| 4.19 | Screening, counseling, and referral by clinicians | --- | ... | --- | --- | 75% |

¹Data have been revised to include the entire U.S. American Indian/Alaska Native population; see Introduction.

²Data have been recomputed to reflect revised intercensal population estimates; see *Health, United States, 1992*, Appendix I.

³1991 data.

⁴1988 data.

⁵1989 data.

⁶1992 data.

⁷1990 data.

⁸Includes Washington, DC.

NOTE: Data sources are in table C.

Alcohol and Other Drugs Objectives

4.1: Reduce deaths caused by alcohol-related motor vehicle crashes to no more than 8.5 per 100,000 people.

4.1a: Reduce deaths among American Indian and Alaska Native men caused by alcohol-related motor vehicle crashes to no more than 44.8 per 100,000.

4.1b: Reduce deaths among people aged 15–24 caused by alcohol-related motor vehicle crashes to no more than 18 per 100,000.

4.2: Reduce cirrhosis deaths to no more than 6 per 100,000 people.

4.2a: Reduce cirrhosis deaths among black men to no more than 12 per 100,000.

4.2b: Reduce cirrhosis deaths among American Indians and Alaska Natives to no more than 13 per 100,000.

4.3: Reduce drug-related deaths to no more than 3 per 100,000 people.

4.4: Reduce drug abuse-related hospital emergency department visits by at least 20 percent.

4.5: Increase by at least 1 year the average age of first use of cigarettes, alcohol, and marijuana by adolescents aged 12–17.

4.6: Reduce the proportion of young people who have used alcohol, marijuana, and cocaine in the past month, as follows:

| Substance and age | 2000 target (percent) |
|-------------------|-----------------------|
| Alcohol: | |
| 12–17 years | 12.6 |
| 18–20 years | 29.0 |
| Marijuana: | |
| 12–17 years | 3.2 |
| 18–25 years | 7.8 |
| Cocaine: | |
| 12–17 years | 0.6 |
| 18–25 years | 2.3 |

4.7: Reduce the proportion of high school seniors and college students engaging in recent occasions of heavy drinking of alcoholic beverages to no more than 28 percent of high school seniors and 32 percent of college students.

NOTE: Recent heavy drinking is defined as having five or more drinks on one occasion in the previous 2-week period as monitored by self-reports.

4.8: Reduce alcohol consumption by people aged 14 and older to an annual average of no more than 2 gallons of ethanol per person.

4.9: Increase the proportion of high school seniors who perceive social disapproval associated with the heavy use of alcohol, occasional use of marijuana, and experimentation with cocaine, as follows:

| | 2000 target (percent) |
|------------------------------|-----------------------|
| Heavy use of alcohol | 70 |
| Occasional use of marijuana | 85 |
| Trying cocaine once or twice | 95 |

NOTE: Heavy drinking is defined as having five or more drinks once or twice each weekend.

4.10: Increase the proportion of high school seniors who associate risk of physical or psychological harm with the heavy use of alcohol, regular use of marijuana, and experimentation with cocaine, as follows:

| | 2000 target (percent) |
|------------------------------|-----------------------|
| Heavy use of alcohol | 70 |
| Regular use of marijuana | 90 |
| Trying cocaine once or twice | 80 |

NOTE: Heavy drinking is defined as having five or more drinks once or twice each weekend.

4.11: Reduce to no more than 3 percent the proportion of male high school seniors who use anabolic steroids.

4.12: Establish and monitor in 50 States comprehensive plans to ensure access to alcohol and drug treatment programs for traditionally underserved people.

4.13: Provide to children in all school districts and private schools primary and secondary school educational programs on alcohol and other drugs, preferably as part of quality school health education.

4.14: Extend adoption of alcohol and drug policies for the work environment to at least 60 percent of worksites with 50 or more employees.

4.15: Extend to 50 States administrative driver's license suspension/revocation laws or programs of equal effectiveness for people determined to have been driving under the influence of intoxicants.

4.16: Increase to 50 the number of States that have enacted and enforce policies, beyond those in existence in 1989, to reduce access to alcoholic beverages by minors.

4.17: Increase to at least 20 the number of States that have enacted statutes to restrict promotion of alcoholic beverages that are focused principally on young audiences.

4.18: Extend to 50 States legal blood alcohol concentration tolerance levels of .04 percent for motor vehicle drivers aged 21 and older and .00 percent for those younger than age 21.

4.19: Increase to at least 75 percent the proportion of primary care providers who screen for alcohol and other drug use problems and provide counseling and referral as needed.

*Duplicate objective.

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Priority Area 5

Family Planning

Background and Data Summary

The formation and growth of families have significant public health and socio-psychological impact on society and individuals (1). Family planning, defined as the process of establishing the preferred number and spacing of children in one's family and selecting the means by which this is achieved, presupposes the importance of family and the importance of planning (2). Problems attendant to poor family planning exact a tremendous toll. Low birth weight (3), high rates of infant mortality (4), and inadequate family support (5) are some of the consequences of poor family planning.

Five of the 11 objectives in this priority area focus on the teenage population. More than three out of four young women and 85 percent of young men have had sexual intercourse by age 20. Each year, 1 out of 10 young women in this age group becomes pregnant. By age 20, approximately 40 percent of all women have been pregnant while 63 percent of black women have been pregnant. An estimated 84 percent of these teen pregnancies were unintended (2).

Updated data were available for four objectives. Objective 5.1 (adolescent pregnancy) moved away from the target, although there was a slight decline among black females. Objective 5.4 (adolescent postponement of sexual intercourse) also moved away from the target. Two objectives (5.5 and 5.6) showed mixed progress. Data from the Youth Risk Behavior Survey indicate that teenage male abstinence from sexual intercourse (5.5) increased slightly while female abstinence remained essentially unchanged. Contraceptive use (5.6) increased for high school males and females; combined (use of condom and pill) contraceptive use increased for males.

Data Issues

Comparability of Data Sources

Data used to update objective 5.4 (postponement of sexual intercourse) came from the 1990 Youth Risk Behavior Survey (YRBS). The YRBS surveys adolescents in school; it misses dropouts, who may be at a higher risk. Information from the YRBS is only available by school grade and not age; therefore, the data are not exactly comparable to the baseline. Fifteen year old adolescents are compared with 10th graders and those 17 years of age compared with 12th graders.

Data Availability

Baseline data for four objectives (5.7, 5.9, 5.10, and 5.11) came from one-time surveys. An ongoing data source has not yet been established for three of these objectives (5.9, 5.10, and 5.11); data from the National Survey of Family Growth (NSFG) will be used to monitor the fourth objective (5.7). The NSFG, the data source for many of the family planning objectives, is conducted every 3 to 4 years.

Table 5. Family planning objective status

| | Objective | 1988 Baseline | | | Target 2000 | |
|--|-----------|---------------|---------|--------|----------------|------|
| | | Original | Revised | 1990 | 1991 | |
| 5.1 Adolescent pregnancy | | | | | | |
| Females 15–17 years (per 1,000)..... | | 171.1 | ... | 274.3 | --- | 50 |
| a. Black adolescent females 15–19 years | | 1,3186 | ... | 2,3184 | --- | 120 |
| b. Hispanic adolescent females 15–19 years | | 1158 | ... | --- | --- | 105 |
| 5.2 Unintended pregnancy | | 56% | ... | --- | --- | 30% |
| a. Black females | | 78% | ... | --- | --- | 40% |
| 5.3 Infertility | | | | | | |
| Married couples with wives 15–44 years | | 7.9% | ... | --- | --- | 6.5% |
| a. Black couples | | 12.1% | ... | --- | --- | 9% |
| b. Hispanic couples | | 12.4% | ... | --- | --- | 9% |
| 5.4 Adolescents who ever had sexual intercourse | | | | | | |
| Adolescents 15 years | | | | | | |
| Females..... | | 27% | ... | 443% | 445% | 15% |
| Males | | 33% | ... | 453% | 451% | 15% |
| Adolescents 17 years | | | | | | |
| Females..... | | 50% | ... | 567% | 565% | 40% |
| Males | | 66% | ... | 576% | 568% | 40% |
| 5.5 Adolescent abstinence from sexual intercourse | | | | | | |
| Ever sexually active females 15–17 years | | 26% | ... | 24% | 25% | 40% |
| Ever sexually active males 15–17 years..... | | ... | 33% | 30% | 36% | 40% |
| 5.6 Contraception use by sexually active adolescents | | | | | | |
| Females 15–19 years | | | | | | |
| First intercourse..... | | 63% | ... | --- | --- | 90% |
| Recent intercourse | | 78% | ... | 78% | 81% | 90% |
| Oral contraception and condom use at most recent intercourse | | 2% | ... | --- | --- | 90% |
| High school males | | | | | | |
| Recent intercourse | | ... | 678% | --- | 83% | 90% |
| Oral contraception and condom use at most recent intercourse | | ... | 62.3% | --- | 3.3% | 90% |
| Males 17–19 years | | | | | | |
| Condom and oral contraception use at last intercourse | | ... | 15% | 714% | --- | 90% |
| 5.7 Failure of contraceptive method | | 810% | ... | --- | --- | 5% |
| 5.8 Family discussion of human sexuality | | | | | | |
| People 13–18 years who have discussed sexuality with parents | | 966% | ... | --- | --- | 85% |
| 5.9 Adoption information from pregnancy counselors | | 1060% | ... | --- | --- | 90% |
| 5.10 Age-appropriate preconception counseling by clinicians | | --- | ... | --- | --- | 60% |
| 5.11 Clinic services for HIV and other sexually transmitted diseases | | --- | ... | --- | --- | 50% |
| Family planning clinics | | 1140% | ... | --- | --- | ... |

11985 data.

21988 data.

3Adolescents other than white.

410th grade students.

512th grade students.

61990 data.

71990-91 data.

81982 data.

91986 data.

101984 data.

111989 data.

NOTE: Data sources are in table C.

Family Planning Objectives

5.1: Reduce pregnancies among girls aged 17 and younger to no more than 50 per 1,000 adolescents.

NOTE: For black and Hispanic adolescent girls, baseline data are unavailable for those aged 15–17. The targets for these two populations are based on data for women aged 15–19. If more complete data become available, a 35-percent reduction from baseline figures should be used as the target.

5.1a: Reduce pregnancies among black adolescent girls aged 15–19 to no more than 120 per 1,000.

5.1b: Reduce pregnancies among Hispanic adolescent girls aged 15–19 to no more than 105 per 1,000.

5.2: Reduce to no more than 30 percent the proportion of all pregnancies that are unintended.

5.2a: Reduce to no more than 40 percent the proportion of all pregnancies among black women that are unintended.

5.3: Reduce the prevalence of infertility to no more than 6.5 percent.

NOTE: Infertility is the failure of couples to conceive after 12 months of intercourse without contraception.

5.3a: Reduce the prevalence of infertility among black women to no more than 9 percent.

5.3b: Reduce the prevalence of infertility among Hispanic couples to no more than 9 percent.

5.4*: Reduce the proportion of adolescents who have engaged in sexual intercourse to no more than 15 percent by age 15 and no more than 40 percent by age 17.

Duplicate objectives: 18.3 and 19.9

5.5: Increase to at least 40 percent the proportion of ever sexually active adolescents aged 17 and younger who have abstained from sexual activity for the previous 3 months.

5.6: Increase to at least 90 percent the proportion of sexually active, unmarried people aged 19 and younger who use contraception, especially combined method contraception that both effectively prevents pregnancy and provides barrier protection against disease.

5.7: Increase the effectiveness with which family planning methods are used, as measured by a decrease to no more than 5 percent in the proportion of couples experiencing pregnancy despite use of a contraceptive method.

5.8: Increase to at least 85 percent the proportion of people aged 10–18 who have discussed human sexuality, including values surrounding sexuality, with their parents and/or have received information through another parentally endorsed source, such as youth, school, or religious programs.

NOTE: This objective, which supports family communication on a range of vital personal health issues, will be tracked using the National Health Interview Survey, a continuing, voluntary, national sample survey of adults who report on household characteristics including such items as illnesses, injuries, use of health services, and demographic characteristics.

5.9: Increase to at least 90 percent the proportion of pregnancy counselors who offer positive, accurate information about adoption to their unmarried patients with unintended pregnancies.

NOTE: Pregnancy counselors are any providers of health or social services who discuss the management or outcome of pregnancy with a woman after she has received a diagnosis of pregnancy.

5.10*: Increase to at least 60 percent the proportion of primary care providers who provide age-appropriate preconception care and counseling.

Duplicate objective: 14.12

5.11*: Increase to at least 50 percent the proportion of family planning clinics, maternal and child health clinics, sexually transmitted disease clinics, tuberculosis clinics, drug treatment centers, and primary care clinics that screen, diagnose, treat, counsel, and provide (or refer for) partner notification services for HIV infection and bacterial sexually transmitted diseases (gonorrhea, syphilis, and Chlamydia).

Duplicate objectives: 18.13 and 19.11

*Duplicate objective.

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Priority Area 6

Mental Health and Mental Disorders

Background and Data Summary

Mental health refers to an individual's ability to negotiate the daily challenges and social interactions of life without experiencing undue emotional or behavioral incapacity. Mental health and mental disorders can be affected by numerous factors ranging from biologic and genetic vulnerabilities, acute or chronic physical dysfunction, to environmental conditions and stresses.

Progress has been reported for 6 (objectives 6.1, 6.2, 6.5, 6.7, 6.8, and 6.11) of the 14 objectives in this area. Suicide (6.1), one of the most serious potential outcomes of mental disorders (1), declined slightly from the 1987 baseline. Adolescent suicide rates, while remaining stable for the past 3 years, are higher than the 1987 baseline. The suicide rate for American Indians and Alaska Natives did not change appreciably. Injurious suicide attempts among adolescents (6.2) showed a decline from the 1990 baseline and surpassed the year 2000 target of 1.8 percent. The prevalence of stress (6.5) has declined and a greater proportion of people suffering from depression (6.7) are receiving treatment.

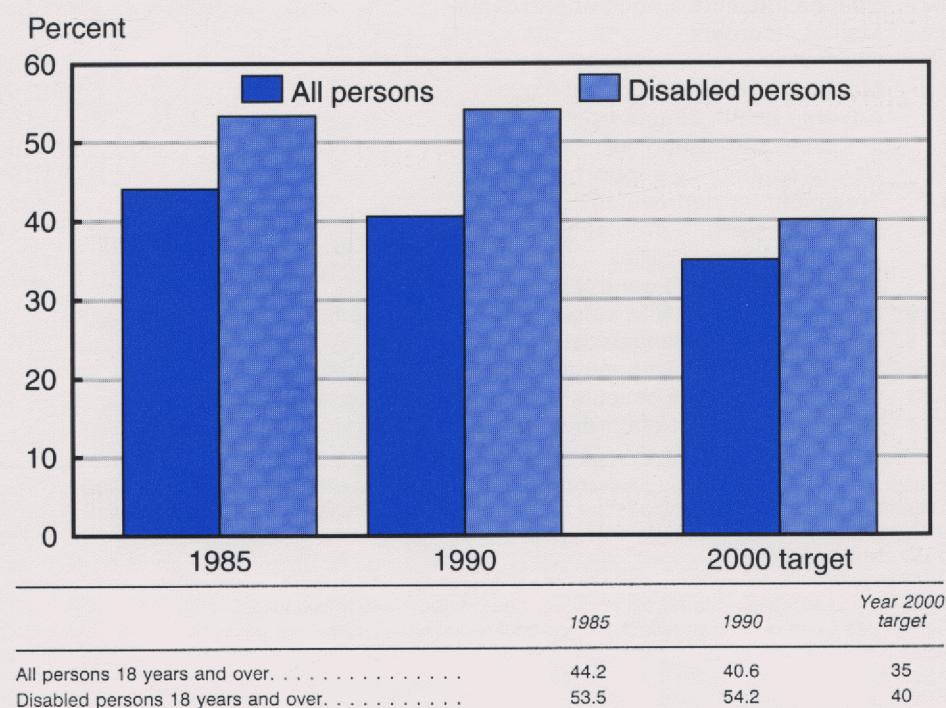
Trends for two objectives moved away from the year 2000 targets. Funding reductions caused the small decline in the number of State clearinghouses for mental health information (6.12). More people are *not* seeking help for stress related problems (6.9). A baseline of three States was established for objective 6.10 (suicide prevention in jails). Baseline data for objectives 6.13 and 6.14 will be available in late 1993. The three remaining objectives (6.3, 6.4, and 6.6) had no new data beyond the baseline.

Data Issues

Definitions

The baseline for objective 6.3, the prevalence of mental disorders in

Figure 11. Persons 18 years and over with adverse health effects of stress in the past year: United States, 1985, 1990, and year 2000 target for objective 6.5



SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health Interview Survey.

children and adolescents, was revised because the diagnostic categories (2) have been expanded considerably since the establishment of the baseline (3). The target was also revised to reflect the same proportional decline sought in the original baseline. This change will affect monitoring.

Data to monitor progress for objective 6.2 are obtained from the Youth Risk Behavior Survey. These data reflect the number of suicide attempts in a 12-month period that required medical treatment.

Comparability of Data Sources

Several objectives will be tracked using a data source different from that used for the baseline. Objectives 6.4 (prevalence of mental disorders) and 6.7 (prevalence of depression) had baselines established by Epidemiological Catchment Area Studies, but will rely on the National Comorbidity Survey for future data.

Table 6. Mental health and mental disorders objective status

| | Objective | 1987 baseline | | | | Target 2000 |
|------|--|--------------------|------------------------|-------------------|---------------------|----------------|
| | | Original | Revised | 1990 | 1991 | |
| 6.1 | Suicide (age adjusted per 100,000) | 11.7 | ¹ No change | 11.5 | --- | 10.5 |
| a. | Adolescents 15–19 years (per 100,000) | 10.3 | ¹ 10.2 | 11.1 | --- | 8.2 |
| b. | Males 20–34 years (per 100,000) | 25.2 | ¹ No change | 25.1 | --- | 21.4 |
| c. | White males 65 years and over (per 100,000) | 46.1 | ¹ 46.7 | 44.4 | --- | 39.2 |
| d. | American Indian/Alaska Native males (age adjusted per 100,000) | 15 | ² 20.1 | 21.0 | --- | 12.8 |
| 6.2 | Suicide attempts among adolescents | ... | ³ 2.1% | --- | 1.7% | 1.8% |
| 6.3 | Mental disorders | | | | | |
| | Children and adolescents 18 years and under | ⁴ 12% | ^{5,6} 20% | --- | --- | 717% |
| 6.4 | Mental disorders among adults | ⁸ 12.6% | ... | --- | --- | 10.7% |
| 6.5 | Adverse health effects from stress | ⁹ 42.6% | ^{6,9} 44.2% | 40.6% | --- | 35% |
| a. | People with disabilities | ⁹ 53.5% | ... | 54.2% | --- | 40% |
| 6.6 | Use of community support | ¹⁰ 15% | ... | --- | --- | 30% |
| 6.7 | Treatment for depression | ¹¹ 31% | ... | ¹² 36% | --- | 45% |
| 6.8 | Seeking help with problems | ⁹ 11.1% | ... | 12.5% | --- | 20% |
| a. | People with disabilities | ⁹ 14.7% | ... | 17.0% | --- | 30% |
| 6.9 | Not taking steps to control stress | ⁹ 21% | ^{6,9} 24% | 28% | --- | 5% |
| 6.10 | Number of States with suicide prevention in jails | ... | ¹³ 3 | --- | --- | 50 |
| 6.11 | Worksite stress management programs | ⁹ 26.6% | ... | --- | ¹³ 37.0% | 40% |
| 6.12 | Number of States with mutual help clearinghouses | 49 | ... | --- | ¹³ 8 | 25 |
| 6.13 | Clinician review of patients' mental functioning | --- | ... | --- | --- | 50% |
| 6.14 | Clinician review of childrens' mental functioning | --- | ... | --- | --- | 75% |

¹Data have been recomputed to reflect revised intercensal population estimates; see *Health, United States, 1992*, Appendix I.²Data have been revised to include the entire U.S. American Indian/Alaska Native population; see Introduction.³1990 data.⁴1989 data.⁵1988 data.⁶Data have been revised to reflect updated methodology; see Introduction.⁷Target has been revised to reflect proportional reduction from revised baseline.⁸1984 data.⁹1985 data.¹⁰1986 data.¹¹1982 data.¹²1983 data.¹³1992 data.

NOTE: Data sources are in table C.

Mental Health and Mental Disorders Objectives

6.1*: Reduce suicides to no more than 10.5 per 100,000 people.

Duplicate objective: 7.2

6.1a*: Reduce suicides among youth aged 15–19 to no more than 8.2 per 100,000.

Duplicate objective: 7.2a

6.1b*: Reduce suicides among men aged 20–34 to no more than 21.4 per 100,000.

Duplicate objective: 7.2b

6.1c*: Reduce suicides among white men aged 65 and older to no more than 39.2 per 100,000.

Duplicate objective: 7.2c

6.1d*: Reduce suicides among American Indian and Alaska Native men in Reservation States to no more than 12.8 per 100,000.

Duplicate objective: 7.2d

6.2*: Reduce by 15 percent the incidence of injurious suicide attempts among adolescents aged 14–17.

Duplicate objective: 7.8

6.3: Reduce to less than 10 percent the prevalence of mental disorders among children and adolescents.

6.4: Reduce the prevalence of mental disorders (exclusive of substance abuse) among adults living in the community to less than 10.7 percent.

6.5: Reduce to less than 35 percent the proportion of people aged 18 and older who experienced adverse health effects from stress within the past year.

NOTE: For this objective, people with disabilities are people who report any limitation in activity due to chronic conditions.

6.5a: Reduce to less than 40 percent the proportion of people with disabilities who experienced adverse health effects from stress within the past year.

6.6: Increase to at least 30 percent the proportion of people aged 18 and older with severe, persistent mental disorders who use community support programs.

6.7: Increase to at least 45 percent the proportion of people with major depressive disorders who obtain treatment.

6.8: Increase to at least 20 percent the proportion of people aged 18 and older who seek help in coping with personal and emotional problems.

6.8a: Increase to at least 30 percent the proportion of people with disabilities who seek help in coping with personal and emotional problems.

6.9: Decrease to no more than 5 percent the proportion of people aged 18 and older who report experiencing significant levels of stress who do not take steps to reduce or control their stress.

6.10*: Increase to 50 the number of States with officially established protocols that engage mental health, alcohol and drug, and public health authorities with corrections authorities to facilitate identification and appropriate intervention to prevent suicide by jail inmates.

Duplicate objective: 7.18

6.11: Increase to at least 40 percent the proportion of worksites employing 50 or more people that provide programs to reduce employee stress.

6.12: Establish mutual help clearinghouses in at least 25 States.

6.13: Increase to at least 50 percent the proportion of primary care providers who routinely review with patients their patients' cognitive, emotional, and behavioral functioning and the resources available to deal with any problems that are identified.

6.14: Increase to at least 75 percent the proportion of providers of primary care for children who include assessment of cognitive, emotional, and parent-child functioning with appropriate counseling, referral, and followup, in their clinical practices.

*Duplicate objective

References

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Priority Area 7

Violent and Abusive Behavior

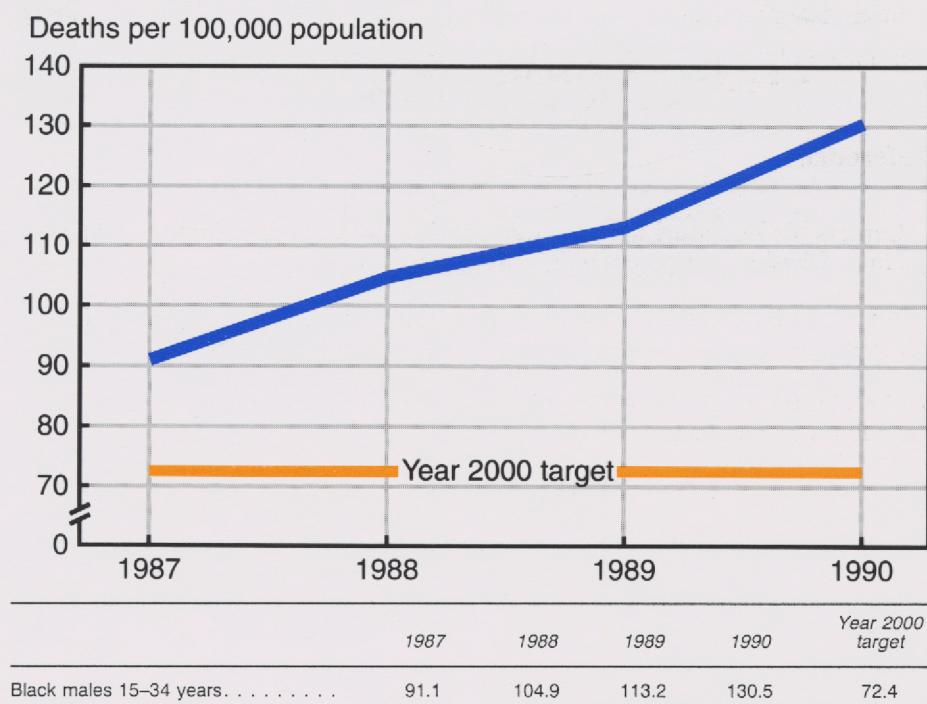
Background and Data Summary

Violent and abusive behaviors continue to be major causes of death, injury, and stress in the United States. Suicide and homicide have resulted in over 50,000 deaths annually between 1985 and 1990 (table 30) (1) and victims of violence have exceeded 2 million persons annually (2). Violence creates extensive physical costs and emotional consequences for society (3). The widespread nature of these consequences may indicate that violence has become a routine part of social interaction in many domestic settings (4). It may also become a mode of behavior adopted by future generations raised in such settings (5). For these reasons, an area that has historically been the responsibility of the fields of law enforcement and social services has become a national public health priority.

Three of the 18 objectives (7.2, 7.7, and 7.8) in this priority area progressed toward the year 2000 targets. Suicides (7.2) have declined slightly for the total population; however, rates for some population subgroups have increased or remained the same. Rates of adolescent suicide (aged 15–19 years) have remained stable in 1988, 1989 and 1990, but are higher than the 1987 baseline. Suicide rates for American Indians and Alaska Natives have not changed appreciably from the 1987 baseline (see introduction). Rates of rape and attempted rape (7.7) have dropped and the target has been surpassed. Rape reporting, however, remains a sensitive issue, subject to a range of social and contextual influences (6). Injurious suicide attempts by adolescents (7.8) declined from the 1990 baseline and surpassed the year 2000 target. These data were obtained from the Youth Risk Behavior Survey and reflect suicide attempts in a 12-month period that required medical attention.

Movement away from the targets was reported for three objectives: homicides (7.1), weapon-related

Figure 12. Death rates for homicide among black males 15–34 years of age: United States, 1987–90 and year 2000 target for objective 7.1



NOTE: Death rates are age adjusted. ICD codes differ from similar categories published in *Health, United States* and elsewhere. See table A for specific codes. Related tables in *Health, United States, 1992*, are 28, 30, and 43.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System.

deaths (7.3), and assault injuries (7.6). The homicide rate for black males aged 15–34 years increased 43 percent between 1987 and 1990. Almost all of this increase is due to a sharp rise in firearm homicides (nonfirearm homicides were unchanged over the period), and it may be associated with increased violence related to drug trafficking. Weapon carrying has increased among young people (7).

The increase in weapon carrying appears linked to the increase in deaths from firearms (7.3). This rate increased by 12 percent from the 1987 baseline. In contrast, the rate of deaths from knives has remained stable for the past 4 years. The rate of injuries from crimes involving assaultive behavior (rape, robbery, and assault) rose to 11 per 1,000 in 1991.

Baseline data were established for five of the objectives (7.8, 7.9, 7.10, 7.13, and 7.18). Data to update progress were not available for three objectives (7.4, 7.5, and 7.15); these data are expected within the next 2 years. Five objectives remain without baseline data, although these should be established in the next 2 years as well (7.11, 7.12, 7.14, 7.16, and 7.17).

Data Issues

Data Availability

Four objectives without baselines (7.11, 7.14, 7.16, and 7.17) relate to children and violence prevention. Baseline data on these objectives will be available in 1994.

Table 7. Violent and abusive behavior objective status

| | Objective | 1987 baseline | | | | Target 2000 |
|--|--|-------------------|------------------------|------------------|------|-------------------|
| | | Original | Revised | 1990 | 1991 | |
| 7.1 | Homicide (age adjusted per 100,000)..... | 8.5 | ¹ No change | 10.1 | --- | 7.2 |
| a. | Children 3 years and under (per 100,000) | 3.9 | ¹ No change | 4.4 | --- | 3.1 |
| b. | Spouses 15–34 years (per 100,000) | 1.7 | ... | ² 1.5 | --- | 1.4 |
| c. | Black males 15–34 years (per 100,000) | 90.5 | ¹ 91.1 | 130.5 | --- | 72.4 |
| d. | Hispanic males 15–34 years (per 100,000) | 53.1 | ¹ 41.3 | 47.8 | --- | 42.5 |
| e. | Black females 15–34 years (per 100,000) | 20.0 | ¹ 20.2 | 22.1 | --- | 16.0 |
| f. | American Indians/Alaska Natives (age adjusted per 100,000) | 14.1 | ³ 11.2 | 10.7 | --- | 11.3 |
| 7.2 | Suicide (age adjusted per 100,000) | 11.7 | ¹ No change | 11.5 | --- | 10.5 |
| a. | Adolescents 15–19 years (per 100,000) | 10.3 | ¹ 10.2 | 11.1 | --- | 8.2 |
| b. | Males 20–34 years (per 100,000) | 25.2 | ¹ No change | 25.1 | --- | 21.4 |
| c. | White males 65 years and over (per 100,000)..... | 46.1 | ¹ 46.7 | 44.4 | --- | 39.2 |
| d. | American Indian/Alaska Native males (age adjusted per 100,000) | 15 | ³ 20.1 | 21.0 | --- | ¹ 10.4 |
| 7.3 | Weapon-related violent deaths (age adjusted per 100,000)..... | 14.8 | ¹ No change | 16.5 | --- | 12.6 |
| Firearms (age adjusted per 100,000)..... | 12.9 | ¹ 13.0 | 14.6 | --- | ... | |
| Knives (age adjusted per 100,000) | 1.9 | ¹ 1.8 | 1.8 | --- | ... | |
| 7.4 | Child abuse and neglect (per 1,000)..... | ⁴ 25.2 | ... | --- | --- | less than 25.2 |
| Incidence of types of maltreatment | | | | | | |
| a. Physical abuse | ⁴ 5.7 | ... | --- | --- | --- | less than 5.7 |
| b. Sexual abuse | ⁴ 2.5 | ... | --- | --- | --- | less than 2.5 |
| c. Emotional abuse..... | ⁴ 3.4 | ... | --- | --- | --- | less than 3.4 |
| d. Neglect | ⁴ 15.9 | ... | --- | --- | --- | less than 15.9 |
| 7.5 | Partner abuse (per 1,000) | ⁵ 30.0 | ... | --- | --- | 27.0 |
| 7.6 | Assault injuries (per 100,000) | ⁴ 11.1 | ^{4,6} 9.7 | 10.3 | 11.0 | ⁷ 8.7 |
| 7.7 | Rape and attempted rape (per 100,000)..... | ⁴ 120 | ... | 100 | --- | 108 |
| Incidence of rape and attempted rape | | | | | | |
| a. Females 12–34 years | ⁴ 250 | ... | 206 | --- | --- | 225 |
| 7.8 | Suicide attempts among adolescents..... | ... | ⁸ 2.1% | --- | 1.7% | 1.8% |
| 7.9 | Physical fighting among adolescents 14–17 years (incidents per 100 students per month)..... | ... | ⁹ 137 | --- | --- | 110 |
| 7.10 | Weapon-carrying by adolescents 14–17 years (incidents per 100 students per month) | ... | ⁹ 107 | --- | --- | 86 |
| 7.11 | Inappropriate storage of weapons | --- | ... | --- | --- | 20% reduction |
| 7.12 | Emergency room protocols for victims of violence | --- | ... | --- | --- | 90% |
| 7.13 | Number of States with child death review systems | ... | ⁹ 33 | --- | --- | 45 |
| 7.14 | Number of States that follow-up abused children..... | --- | ... | --- | --- | 30 |
| 7.15 | Battered women turned away from shelters | 40% | ... | --- | --- | 10% |
| 7.16 | Conflict resolution education in schools | --- | ... | --- | --- | 50% |
| 7.17 | Comprehensive violence prevention programs..... | --- | ... | --- | --- | 80% |
| 7.18 | Number of States with suicide prevention in jails..... | ... | ¹⁰ 3 | --- | --- | 50 |

¹Data have been recomputed to reflect revised intercensal population estimates; see *Health, United States, 1992*, Appendix I.

²1989 data.

³Data have been revised to include the entire U.S. American Indian/Alaska Native population; see Introduction.

⁴1986 data.

⁵1985 data.

⁶Baseline has been revised to reflect updated methodology.

⁷Target has been revised to reflect proportional reduction from revised baseline.

⁸1990 data.

⁹1991 data.

¹⁰1992 data.

NOTE: Data sources are in table C.

Violent and Abusive Behavior Objectives

7.1: Reduce homicides to no more than 7.2 per 100,000 people.

7.1a: Reduce homicides among children aged 3 and younger to no more than 3.1 per 100,000 children.

7.1b: Reduce homicides among spouses aged 15–34 to no more than 1.4 per 100,000.

7.1c: Reduce homicides among black men aged 15–34 to no more than 72.4 per 100,000.

7.1d: Reduce homicides among Hispanic men aged 15–34 to no more than 42.5 per 100,000.

7.1e: Reduce homicides among black women aged 15–34 to no more than 16.0 per 100,000.

7.1f: Reduce homicides among American Indians and Alaska Natives in Reservation States to no more than 11.3 per 100,000.

7.2*: Reduce suicides to no more than 10.5 per 100,000 people.

Duplicate objective: 6.1

7.2a*: Reduce suicides among youth aged 15–19 to no more than 8.2 per 100,000.

Duplicate objective: 6.1a

7.2b*: Reduce suicides among men aged 20–34 to no more than 21.4 per 100,000.

Duplicate objective: 6.1b

7.2c*: Reduce suicides among white men aged 65 and older to no more than 39.2 per 100,000.

Duplicate objective: 6.1c

7.2d*: Reduce suicides among American Indian and Alaska Native men in Reservation States to no more than 12.8 per 100,000.

Duplicate objective: 6.1d

7.3: Reduce weapon-related violent deaths to no more than 12.6 per 100,000 people from major causes.

7.4: Reverse to less than 25.2 per 1,000 children the rising incidence of maltreatment of children younger than age 18.

7.4a: Reverse to less than 5.7 per 1,000 children the rising incidence of physical abuse of children younger than age 18.

7.4b: Reverse to less than 2.5 per 1,000 children the rising incidence of sexual abuse of children younger than age 18.

7.4c: Reverse to less than 3.4 per 1,000 children the rising incidence of emotional abuse of children younger than age 18.

7.4d: Reverse to less than 15.9 per 1,000 children the rising incidence of neglect of children younger than age 18.

7.5: Reduce physical abuse directed at women by male partners to no more than 27 per 1,000 couples.

7.6: Reduce assault injuries among people aged 12 and older to no more than 10 per 1,000.

7.7: Reduce rape and attempted rape of women aged 12 and older to no more than 108 per 100,000 women.

7.7a: Reduce rape and attempted rape of women aged 12–34 to no more than 225 per 100,000.

7.8*: Reduce by 15 percent the incidence of injurious suicide attempts among adolescents aged 14–17.

Duplicate objective: 06.02

7.9: Reduce by 20 percent the incidence of physical fighting among adolescents aged 14–17.

7.10: Reduce by 20 percent the incidence of weapon-carrying by adolescents aged 14–17.

7.11: Reduce by 20 percent the proportion of people who possess weapons that are inappropriately stored and therefore dangerously available.

7.12: Extend protocols for routinely identifying, treating, and properly referring suicide attempters, victims of sexual assault, and victims of spouse, elder, and child abuse to at least 90 percent of hospital emergency departments.

7.13: Extend to at least 45 States implementation of unexplained child death review systems.

7.14: Increase to at least 30 the number of States in which at least 50 percent of children identified as neglected or physically or sexually abused receive physical and mental evaluation with appropriate followup as a means of breaking the intergenerational cycle of abuse.

7.15: Reduce to less than 10 percent the proportion of battered women and their children turned away from emergency housing due to lack of space.

7.16: Increase to at least 50 percent the proportion of elementary and secondary schools that teach nonviolent conflict resolution skills, preferably as a part of quality school health education.

7.17: Extend coordinated, comprehensive violence prevention programs to at least 80 percent of local jurisdictions with populations over 100,000.

7.18*: Increase to 50 the number of States with officially established protocols that engage mental health, alcohol and drug, and public health authorities with corrections authorities to facilitate identification and appropriate intervention to prevent suicide by jail inmates.

Duplicate objective: 6.10

*Duplicate objective.

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Priority Area 8

Educational and Community-Based Programs

Background and Data Summary

Community-based interventions attempt to reach groups of people outside of traditional health care settings. Many of these programs are community-based, designed for people who meet in diverse settings, such as students within a school, employees at a worksite, or members of civic or religious groups. Other programs are planned to be community-wide. These health promotion programs can reach large numbers of people with intensive and effective interventions; in addition, they are relatively easy to implement. While community-based programs may address a single risk factor or health problem, many programs are starting to take a more comprehensive, and often more positive, approach to health and well-being. Community-based programs also increasingly recognize the importance of addressing the social and physical environment in which behavior occurs.

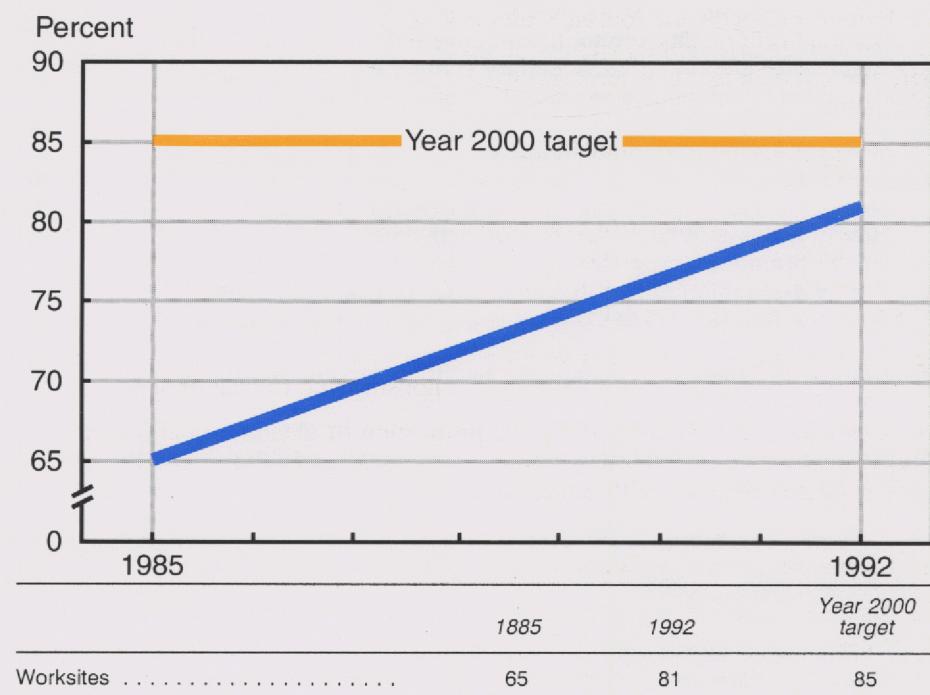
Of the 14 Educational and Community-Based Programs objectives, 4 are progressing toward the year 2000 targets (objectives 8.3, 8.6, 8.9, and 8.12), while none are moving away from the targets. New baselines were established this year for three objectives (8.1, 8.2, and 8.14). Baselines for the remaining seven objectives are not yet available.

Data Issues

Years of Healthy Life

The concept of increasing years of healthy life is one of the three *Healthy People 2000* goals, and is included as three specific objectives (8.1, 17.1, and 21.1). See the introduction to the *Healthy People 2000 Review* for a discussion of years of healthy life.

Figure 13. Percent of worksites offering health promotion activities: United States, 1985, 1992, and year 2000 target for objective 8.6



SOURCE: Office of the Assistant Secretary for Health, Office of Disease Prevention and Health Promotion.

Data Source Description

Objectives 8.2 (completion of high school) and 8.3 (preschool child development programs) and their targets are consistent with the National Education Goals for these areas. The data used to track these objectives come from the National Center for Education Statistics.

Data Availability

Objective 8.9 addresses the proportion of people aged 10 years and older who have discussed any of several health-related issues with family members in the last month. Until a broader variable is available,

progress is being measured by the percent of 9th–12th graders engaging in family discussions about HIV/AIDS. Similarly, objective 8.14, which focuses on the proportion of people served by effective local health departments, is being monitored by the proportion of health departments carrying out the core functions of public health.

Because of the nature of many of the objectives, this chapter poses as significant a challenge in obtaining relevant data to measure progress as any *Healthy People 2000* priority area. A concerted effort will be made over the decade to locate complete data sources for those objectives that are only being partially measured.

Table 8. Educational and community based programs objective status

| | Objective | Baseline | | | Target 2000 | |
|------|--|-------------------|--|-------------------|------------------|------|
| | | Original | Revised | 1990 | 1991 | |
| 8.1 | Years of healthy life | 162.0 | ^{2,3} 64.0 ^{2,3} No | --- | --- | 65 |
| | a. Blacks | 156.0 | change | --- | --- | 60 |
| | b. Hispanics | 162.0 | ^{2,3} 64.8 | --- | --- | 65 |
| | c. People 65 years and over ⁵ | 112.0 | ^{2,3} 11.9 | --- | --- | 14 |
| 8.2 | Completion of high school | | | | | |
| | People 19–20 years | 679% | ^{2,3} 83% | --- | --- | 90% |
| 8.3 | Preschool child development programs | | | | | |
| | Eligible children 4 years afforded opportunity to enroll in Head Start | 247% | ... | --- | 55% | 100% |
| | Disabled children 3–5 years enrolled in preschool | --- | ... | --- | 56% | 100% |
| 8.4 | Schools with quality school health education..... | --- | ... | --- | --- | 75% |
| 8.5 | Health promotion in postsecondary institutions | | | | | |
| | Percent of higher education institutions offering health promotion activities..... | 720% | ... | --- | --- | 50% |
| 8.6 | Worksite health promotion activities | | | | | |
| | Worksites with 50 or more employees..... | ⁸ 65% | ... | --- | ⁹ 81% | 85% |
| | Medium and large companies having a wellness program..... | ⁸ 63% | ... | --- | --- | ... |
| 8.7 | Hourly workers in health promotion activities..... | --- | ... | --- | --- | 20% |
| 8.8 | Health promotion programs for older adults..... | --- | ... | --- | --- | 90% |
| 8.9 | Family discussion of health issues-ages 10 years and over..... | ... | ... | --- | --- | 75% |
| | Among 9th–12th grade students engaging in family discussion of HIV/AIDS | ... | ¹⁰ 54% | 53% | 61% | ... |
| 8.10 | Number of States with community health programs for 40 percent of the population..... | --- | ... | --- | --- | 40% |
| 8.11 | Counties with programs for racial/ethnic minority groups | --- | ... | --- | --- | 50% |
| 8.12 | Hospital-based patient education and community health promotion | | | | | |
| | Patient education programs | | | | | |
| | Community hospitals..... | ¹¹ 66% | ^{3,12} 68% | 86% | --- | 90% |
| | Health maintenance organizations | --- | ... | --- | --- | 90% |
| | Health education classes..... | ... | ... | ¹² 75% | --- | ... |
| | Nutrition counseling..... | ... | ... | ¹² 85% | --- | ... |
| | Community health promotion | | | | | |
| | Community hospitals..... | ¹⁰ 60% | ... | 77% | --- | 90% |
| 8.13 | Television partnerships with community organizations for health promotion..... | --- | ... | --- | --- | 75% |
| 8.14 | Effective public health systems | | | | | |
| | Local health departments reporting | | | | | |
| | Health assessment | ... | ... | --- | --- | 90% |
| | Behavioral risk assessment..... | ... | ² 33% | --- | --- | ... |
| | Morbidity data | ... | ² 49% | --- | --- | ... |
| | Reportable disease | ... | ² 87% | --- | --- | ... |
| | Vital records and statistics | ... | ² 64% | --- | --- | ... |
| | Surveillance chronic disease..... | ... | ² 55% | --- | --- | ... |
| | Surveillance communicable disease..... | ... | ² 92% | --- | --- | ... |
| | Policy development functions and services | | | | | |
| | Health code development and enforcement | ... | ² 59% | --- | --- | ... |
| | Health planning | ... | ² 57% | --- | --- | ... |
| | Health assurance | | | | | |
| | Health education | ... | ² 74% | --- | --- | ... |
| | Child health | ... | ² 84% | --- | --- | ... |
| | Immunizations | ... | ² 92% | --- | --- | ... |
| | Prenatal care | ... | ² 59% | --- | --- | ... |
| | Primary care | ... | ² 22% | --- | --- | ... |

¹1980 data.

²1990 data.

³Data have been revised to reflect updated methodology; see Introduction.

⁴Estimated based on preliminary data.

⁵Years of healthy life remaining at age 65.

⁶1989 data for people 20–21 years.

⁷1989–90 data.

⁸1985 data.

⁹1992 data.

¹⁰1989 data.

¹¹1987 data.

¹²1988 data.

NOTE: Data sources are in table C.

Educational and Community-Based Programs Objectives

8.1*: Increase years of healthy life to at least 65 years.

NOTE: Years of healthy life is a summary measure of health that combines mortality (quantity of life) and morbidity and disability (quality of life) into a single measure. For people aged 65 and older, active life-expectancy, a related summary measure, also will be tracked.

Duplicate objectives: 17.1 and 21.1

8.1a*: Increase years of healthy life among black persons to at least 60 years.

Duplicate objectives: 17.1a and 21.1a

8.1b*: Increase years of healthy life among Hispanics to at least 65 years.

Duplicate objectives: 17.1b and 21.1b

8.1c*: Increase years of healthy life among people aged 65 and older to at least 14 years remaining at age 65.

Duplicate objectives: 17.1c and 21.1c

8.2: Increase the high school graduation rate to at least 90 percent, thereby reducing risks for multiple problem behaviors and poor mental and physical health.

NOTE: This objective and its target are consistent with the National Education Goal to increase high school graduation rates.

8.3: Achieve for all disadvantaged children and children with disabilities access to high quality and developmentally appropriate preschool programs that help prepare children for school, thereby improving their prospects with regard to school performance, problem behaviors, and mental and physical health.

NOTE: This objective and its target are consistent with the National Education Goal to increase school readiness and its objective to increase access to preschool programs for disadvantaged and disabled children.

8.4: Increase to at least 75 percent the proportion of the Nation's elementary and secondary schools that provide planned and sequential kindergarten–12th grade quality school health education.

8.5: Increase to at least 50 percent the proportion of postsecondary institutions with institution wide health promotion programs for students, faculty, and staff.

8.6: Increase to at least 85 percent the proportion of workplaces with 50 or more employees that offer health promotion activities for their employees, preferably as part of a comprehensive employee health promotion program.

8.7: Increase to at least 20 percent the proportion of hourly workers who participate regularly in employer-sponsored health promotion activities.

8.8: Increase to at least 90 percent the proportion of people aged 65 and older who had the opportunity to participate during the preceding year in at least one organized health promotion program through a senior center, lifecare facility, or other community-based setting that serves older adults.

8.9: Increase to at least 75 percent the proportion of people aged 10 and older who have discussed issues related to nutrition, physical activity, sexual behavior, tobacco, alcohol, other drugs, or safety with family members on at least one occasion during the preceding month.

8.10: Establish community health promotion programs that separately or together address at least three of the Healthy People 2000 priorities and reach at least 40 percent of each State's population.

8.11: Increase to at least 50 percent the proportion of counties that have established culturally and linguistically appropriate community health promotion programs for racial and ethnic minority populations.

NOTE: This objective will be tracked in counties in which a racial or ethnic group constitutes more than 10 percent of the population.

8.12: Increase to at least 90 percent the proportion of hospitals, health maintenance organizations, and large group practices that provide patient education programs, and to at least 90 percent the proportion of community hospitals that offer community health promotion programs addressing the priority health needs of their communities.

8.13: Increase to at least 75 percent the proportion of local television network affiliates in the top 20 television markets that have become partners with one or more community organizations around one of the health problems addressed by the Healthy People 2000 objectives.

8.14: Increase to at least 90 percent the proportion of people who are served by a local health department that is effectively carrying out the core functions of public health.

NOTE: The core functions of public health have been defined as assessment, policy development, and assurance. Local health department refers to any local component of the public health system, defined as an administrative and service unit of local or State government concerned with health and carrying some responsibility for the health of a jurisdiction smaller than a State.

*Duplicate objective.

Priority Area 9

Unintentional Injuries

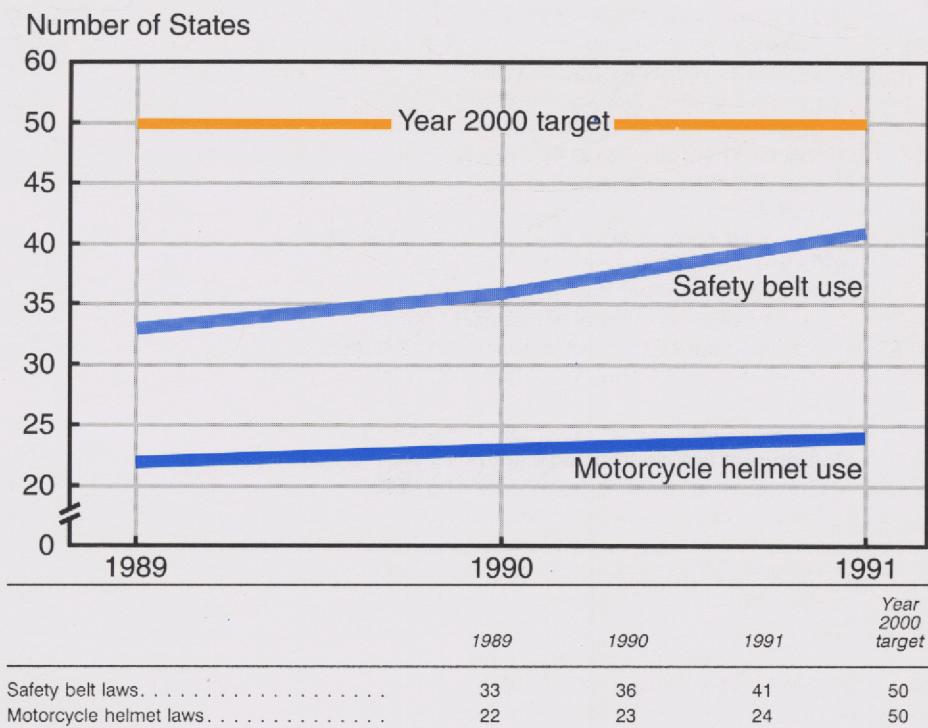
Background and Data Summary

Unintentional injuries are the fourth leading cause of death in the United States, accounting for more than 90,000 deaths annually (table 30) (1). They are a major cause of disabilities and hospitalization and have significant impact on health care costs (2). For example, the National Highway Traffic Safety Administration has estimated that motor vehicle crashes alone cost the United States \$75 billion annually (3). The 22 objectives in this area focus on a wide range of mechanical, legislative, and educational means to reduce the occurrence of these events.

Progress toward the year 2000 targets was made on 11 objectives (9.1, 9.2, 9.3, 9.5, 9.6, 9.8, 9.9, 9.12, 9.13, 9.14, and 9.17). In a few cases (9.3, 9.8, and 9.9), the year 2000 target has been equaled or surpassed. Much of this progress is in areas related to motor vehicle fatalities, injuries, and use of vehicle occupant restraints (9.3, 9.9, and 9.12). This improvement may be attributable to reduction in the amount of driving and alcohol consumption during the recent economic slowdown. The recent increases in the number of States with seat belt laws, helmet laws (4), and programs targeting drivers under the influence of alcohol (5) also contributed to the declines in these areas. The national rate of residential fire deaths (9.6) and all special populations monitored as subobjectives show declining rates. These improvements may be associated with increased use of smoke detectors (9.17).

The hospitalization rates for hip fractures (9.7) and spinal cord injuries (9.10) increased, indicating movement away from the year 2000 target. Baseline data were established for objective 9.16. Objectives 9.4, 9.15, and 9.22 did not change. Data to monitor progress was unavailable for two objectives (9.11 and 9.19), and three objectives (9.18, 9.20, and 9.21) still require baseline data.

Figure 14. Number of States with laws requiring safety belt and motorcycle helmet use for all ages: United States, 1989–91 and year 2000 target for objective 9.14



SOURCE: National Highway Traffic Safety Administration.

Data Issues

Data Source Description

Data for objective 9.3 (motor vehicle crash deaths) are crude rates from the Fatal Accident Reporting System (FARS). See the introduction for a discussion of crude and age-adjusted rates and priority area 4 for a description of FARS. The rates for 9.3d (American Indian and Alaska Natives) are age-adjusted data from the National Vital Statistics System.

Table 9. Unintentional injuries objective status

| Objective | 1987 baseline | | | | Target 2000 |
|--|---------------|-----------|-------|-------|----------------|
| | Original | Revised | 1990 | 1991 | |
| 9.1 Unintentional injury deaths (age adjusted per 100,000)..... | 34.5 | 134.7 | 32.5 | --- | 29.3 |
| a. American Indians/Alaska Natives (age adjusted per 100,000) ... | 82.6 | 266.0 | 59.0 | --- | 66.1 |
| b. Black males (age adjusted per 100,000)..... | 64.9 | 168.0 | 62.4 | --- | 51.9 |
| c. White males (age adjusted per 100,000)..... | 53.6 | 149.8 | 46.4 | --- | 42.9 |
| 9.2 Unintentional injury hospitalizations (per 100,000)..... | 3,4887 | 3-5832 | 4780 | 4764 | 754 |
| 9.3 Motor vehicle crash-related deaths | | | | | |
| Per 100 million vehicle miles traveled (VMT)..... | 2.4 | ... | 2.1 | 1.9 | 1.9 |
| Age adjusted per 100,000 people | 18.8 | 519.2 | 17.9 | 16.3 | 16.8 |
| a. Children 14 years and under (per 100,000) | 6.2 | ... | 5.3 | --- | 5.5 |
| b. People 15-24 years (per 100,000)..... | 36.9 | ... | 33.3 | --- | 33 |
| c. People 70 years and over (per 100,000)..... | 22.6 | ... | 23.9 | --- | 20 |
| d. American Indians/Alaska Natives (age adjusted per 100,000) ... | 46.8 | 237.7 | 33.2 | --- | 39.2 |
| e. Motorcyclist (per 100 million VMT)..... | 40.9 | ... | 33.8 | --- | 33.0 |
| (per 100,000) | 1.7 | ... | 1.3 | --- | 1.5 |
| f. Pedestrians (per 100,000) | 3.1 | 52.8 | 2.6 | --- | 2.7 |
| 9.4 Fall-related deaths (age adjusted per 100,000)..... | 2.7 | No change | 2.7 | --- | 2.3 |
| a. People 65-84 years (per 100,000)..... | 18.0 | 118.1 | 17.8 | --- | 14.4 |
| b. People 85 years and over (per 100,000)..... | 131.2 | 1133.0 | 143.1 | --- | 105.0 |
| c. Black males 30-69 years (per 100,000)..... | 8.0 | 18.1 | 6.8 | --- | 5.6 |
| 9.5 Drowning deaths (age adjusted per 100,000)..... | 2.1 | No change | 1.9 | --- | 1.3 |
| a. Children aged 4 and under (per 100,000)..... | 4.2 | 14.3 | 3.4 | --- | 2.3 |
| b. Males 15-34 years (per 100,000) | 4.5 | No change | 4.0 | --- | 2.5 |
| c. Black males (age adjusted per 100,000)..... | 6.6 | No change | 5.0 | --- | 3.6 |
| 9.6 Residential fire deaths (age adjusted per 100,000)..... | 1.5 | 11.7 | 1.5 | --- | 1.2 |
| a. Children 4 years and under (per 100,000) | 4.4 | 14.5 | 3.5 | --- | 3.3 |
| b. People 65 years and over (per 100,000)..... | 4.4 | 14.9 | 4.1 | --- | 3.3 |
| c. Black males (age adjusted per 100,000) | 5.7 | 16.4 | 5.2 | --- | 4.3 |
| d. Black females (age adjusted per 100,000) | 3.4 | 13.3 | 2.7 | --- | 2.6 |
| e. Residential fire deaths caused by smoking..... | 17% | 526% | 617% | --- | 5% |
| 9.7 Hip fractures among older adults (per 100,000)..... | 3714 | ... | 776 | 814 | 607 |
| a. White females 85 years and over..... | 32,721 | ... | 3,075 | 3,791 | 2,177 |
| 9.8 Nonfatal poisoning (per 100,000) | 7103 | 5,7108 | 76 | --- | 88 |
| a. Among children 4 years and under | 7650 | 5,7648 | 729 | --- | 520 |
| 9.9 Nonfatal head injuries (per 100,000) | 3125 | 3,5118 | 110 | 104 | 106 |
| 9.10 Nonfatal spinal cord injuries (per 100,000) | 35.9 | 3,55.3 | 4.4 | 6.4 | 5.0 |
| a. Males..... | 38.9 | 3,59.6 | 6.9 | 9.8 | 7.1 |
| 9.11 Secondary disabilities associated with head and spinal cord injuries | | | | | |
| Head injuries (per 100,000) | 720.0 | ... | --- | --- | 16.0 |
| Spinal cord injuries (per 100,000) | 73.2 | ... | --- | --- | 2.6 |
| 9.12 Motor vehicle occupant protection systems | 342% | ... | 49% | 59% | 85% |
| a. Children 4 years and under | 384% | ... | 84% | 85% | 95% |
| 9.13 Helmet use by motorcyclists and bicyclists | | | | | |
| Motorcyclists | 360% | ... | 60% | 62% | 80% |
| Bicyclists | 38% | ... | --- | 5-10% | 50% |
| 9.14 Safety belt and helmet use laws | | | | | |
| Number of States with safety belt laws ⁷ | 633 | ... | 36 | 41 | 50 |
| Number of States with Motorcycle Helmet Use Laws ⁸ | 622 | ... | 23 | 24 | 50 |
| 9.15 Number of States with handgun design to protect children | 60 | ... | 0 | --- | 50 |
| 9.16 Fire suppression sprinkler installation (number of localities)..... | ... | 6700 | --- | --- | 2,000 |
| 9.17 Residences with smoke detectors | 681% | ... | 82% | --- | 100% |
| 9.18 Injury prevention instruction in schools..... | --- | ... | --- | --- | 50% |
| 9.19 Protective equipment in sporting and recreation events | --- | ... | --- | --- | 100% |
| National Collegiate Athletic Association | | | | | |
| Football | 3Required | ... | --- | --- | ... |
| Hockey..... | 3Required | ... | --- | --- | ... |
| Lacrosse | 3Required | ... | --- | --- | ... |
| High school football | 3Required | ... | --- | --- | ... |
| Amateur boxing..... | 3Required | ... | --- | --- | ... |
| Amateur ice hockey | 3Required | ... | --- | --- | ... |

Table 9. Unintentional injuries objective status—Con.

| Objective | 1987 baseline | | | | Target 2000 |
|--|---------------|---------|------|------|----------------|
| | Original | Revised | 1990 | 1991 | |
| 9.20 Number of States with design standards for roadway safety | --- | ... | --- | --- | 30 |
| 9.21 Injury prevention counseling by primary care providers | --- | ... | --- | --- | 50% |
| 9.22 Number of States with linked emergency medical services and trauma systems..... | 2 | ... | 62 | --- | 50 |

¹Data have been recomputed to reflect revised intercensal population estimates; see *Health, United States, 1992*, Appendix I.

²Data have been revised to include the entire U.S. American Indian/Alaska Native population; see Introduction.

³1988 data.

⁴Data include unintentional and intentional injuries and injuries where the intent was not known.

⁵Data have been revised to reflect updated methodology; see Introduction.

⁶1989 data.

⁷1986 data.

⁸DC also has a safety belt law.

⁹DC and Puerto Rico also have motorcycle helmet laws.

NOTE: Data sources are in table C.

Unintentional Injuries Objectives

9.1: Reduce deaths caused by unintentional injuries to no more than 29.3 per 100,000 people.

9.1a: Reduce deaths among American Indians and Alaska Natives caused by unintentional injuries to no more than 66.1 per 100,000 people.

9.1b: Reduce deaths among black males caused by unintentional injuries to no more than 51.9 per 100,000 people.

9.1c: Reduce deaths among white males caused by unintentional injuries to no more than 42.9 per 100,000.

9.2: Reduce nonfatal unintentional injuries so that hospitalizations for this condition are no more than 754 per 100,000 people.

9.3: Reduce deaths caused by motor vehicle crashes to no more than 1.9 per 100 million vehicle miles traveled and 16.8 per 100,000 people.

9.3a: Reduce deaths among children aged 14 and younger caused by motor vehicle crashes to no more than 5.5 per 100,000.

9.3b: Reduce deaths among youth aged 15–24 caused by motor vehicle crashes to no more than 33 per 100,000.

9.3c: Reduce deaths among people aged 70 and older caused by motor vehicle crashes to no more than 20 per 100,000.

9.3d: Reduce deaths among American Indians and Alaska Natives caused by motor vehicle crashes to no more than 39.2 per 100,000.

9.3e: Reduce deaths among motorcyclists caused by motor vehicle crashes to no more than 33 per 100 million vehicle miles traveled and 1.5 per 100,000.

9.3f: Reduce deaths among pedestrians caused by motor vehicle crashes to no more than 2.7 per 100,000.

9.4: Reduce deaths from falls and fall-related injuries to no more than 2.3 per 100,000 people.

9.4a: Reduce deaths among people aged 65–84 from falls and fall-related injuries to no more than 14.4 per 100,000.

9.4b: Reduce deaths among people aged 85 and older from falls and fall-related injuries to no more than 105 per 100,000.

9.4c: Reduce deaths among black men aged 30–69 from falls and fall-related injuries to no more than 5.6 per 100,000.

9.5: Reduce drowning deaths to no more than 1.3 per 100,000 people.

9.5a: Reduce drowning deaths among children aged 4 and younger to no more than 2.3 per 100,000.

9.5b: Reduce drowning deaths among men aged 15–34 to no more than 2.5 per 100,000.

9.5c: Reduce drowning deaths among black males to no more than 3.6 per 100,000.

9.6: Reduce residential fire deaths to no more than 1.2 per 100,000 people.

9.6a: Reduce residential fire deaths among children aged 4 and younger to no more than 3.3 per 100,000.

9.6b: Reduce residential fire deaths among people aged 65 and older to no more than 3.3 per 100,000.

9.6c: Reduce residential fire deaths among black males to no more than 4.3 per 100,000.

9.6d: Reduce residential fire deaths among black females to no more than 2.6 per 100,000.

9.6e: Reduce residential fire deaths from residential fires caused by smoking to no more than 5 percent.

9.7: Reduce hip fractures among people aged 65 and older so that hospitalizations for this condition are no more than 607 per 100,000 people.

9.7a: Reduce hip fractures among white women aged 85 and older so that hospitalizations for this condition are no more than 2,177 per 100,000.

9.8: Reduce nonfatal poisoning to no more than 88 emergency department treatments per 100,000 people.

9.8a: Reduce nonfatal poisoning among children aged 4 and younger to no more than 520 emergency department treatments per 100,000.

9.9: Reduce nonfatal head injuries so that hospitalizations for this condition are no more than 106 per 100,000 people.

9.10: Reduce nonfatal spinal cord injuries so that hospitalizations for this condition are no more than 5.0 per 100,000 people.

9.10a: Reduce nonfatal spinal cord injuries among males so that hospitalizations for this condition are no more than 7.1 per 100,000.

9.11: Reduce the incidence of secondary disabilities associated with injuries of the head and spinal cord to no more than 16 and 2.6 per 100,000 people, respectively.

NOTE: Secondary disabilities are defined as those medical conditions secondary to traumatic head or spinal cord injury that impair independent and productive lifestyles.

9.12: Increase use of occupant protection systems, such as safety belts, inflatable safety restraints, and child safety seats, to at least 85 percent of motor vehicle occupants.

9.12a: Increase use of occupant protection systems, such as safety belts, inflatable safety restraints, and child safety seats, to at least 95 percent of motor vehicle occupants aged 4 and younger.

9.13: Increase use of helmets to at least 80 percent of motorcyclists and at least 50 percent of bicyclists.

9.14: Extend to 50 States laws requiring safety belt and motorcycle helmet use for all ages.

9.15: Enact in 50 States laws requiring that new handguns be designed to minimize the likelihood of discharge by children.

9.16: Extend to 2,000 local jurisdictions the number whose codes address the installation of fire suppression sprinkler systems in those residences at highest risk for fires.

9.17: Increase the presence of functional smoke detectors to at least one on each habitable floor of all inhabited residential dwellings.

9.18: Provide academic instruction on injury prevention and control, preferably as part of quality school health education, in at least 50 percent of public school systems (grades K-12).

9.19*: Extend requirement of the use of effective head, face, eye, and mouth protection to all organizations, agencies, and institutions sponsoring sporting and recreation events that pose risks of injury.

Duplicate objective: 13.16

9.20: Increase to at least 30 the number of States that have design standards for signs, signals, markings, lighting, and other characteristics of the roadway environment to improve the visual stimuli and protect the safety of older drivers and pedestrians.

9.21: Increase to at least 50 percent the proportion of primary care providers who routinely provide age appropriate counseling on safety precautions to prevent unintentional injury.

9.22: Extend to 50 States emergency medical service and trauma systems linking prehospital, hospital, and rehabilitation services in order to prevent trauma deaths and long-term disability.

*Duplicate objective.

References

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3. National Highway Traffic Safety Administration. The economic cost of society of motor vehicle accidents. Washington. 1987.
4. National Highway Traffic Safety Administration. The effectiveness of motorcycle helmets in preventing fatalities. Washington. 1989.
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Priority Area 10

Occupational Safety and Health

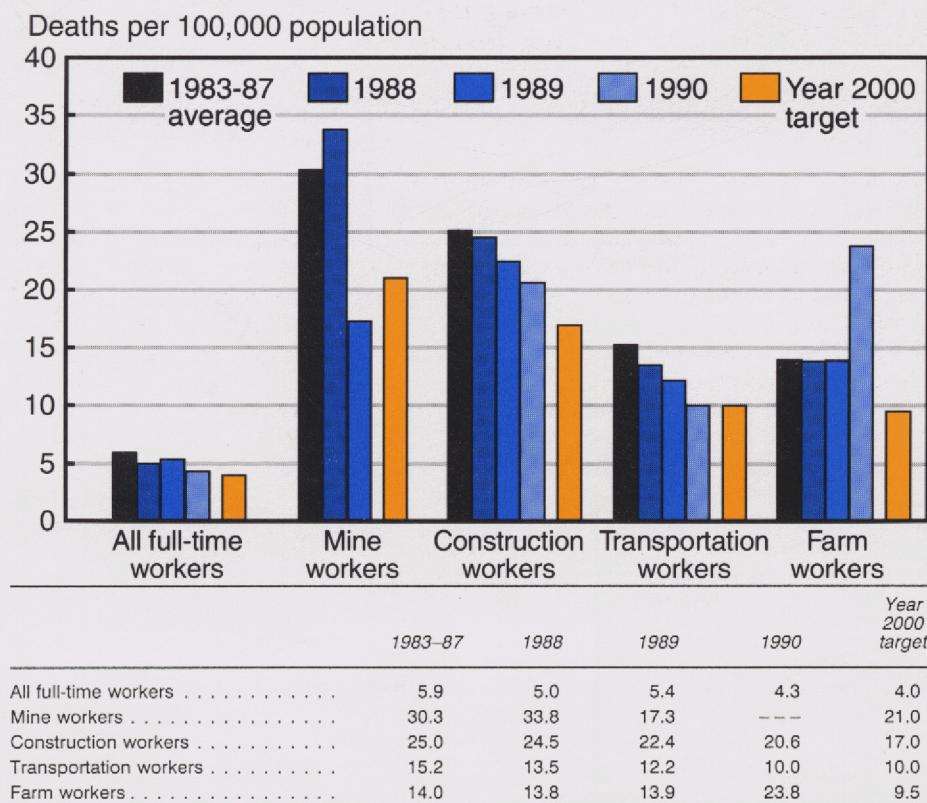
Background and Data Summary

Work-related injuries and deaths are an important public health problem. Although work-related deaths have declined slightly from a 1983-87 average of 6 per 100,000 workers to a rate of 4.3 in 1990, work-related injuries remain above the 1983-87 average of 7.7 per 100 (8.3 in 1990 (1) and 7.9 in 1991 (2)). The leading cause of occupational deaths is motor vehicle accidents (3); reductions in this area are, in part, a consequence of increased legislation and enforcement of seat belt laws.

Some specific professions (such as mining, construction, farming and nursing) have higher levels of mortality and morbidity, due to physical and environmental demands (4). Work-related deaths for some of these groups have declined from the 1983-87 averages. Mine-worker deaths dropped to 17.3 per 100,000 in 1989 which is below the year 2000 target (21 per 100,000). Data on mine-workers were not available for 1990, but rates for construction workers and transportation workers declined. The rate for farm workers increased to a level of 23.8 per 100,000 in 1990; there was no concomitant increase in work-related injuries among farm workers during this time period. Many work-related deaths and injuries are among younger, newer workers, who may require safety training and other initiatives to further reduce work-related mortality and morbidity (5).

Five of the 15 objectives in this priority area moved toward the year 2000 targets (10.1, 10.5, 10.6, 10.10, and 10.13). The new baseline established for objective 10.6 (worksite mandates for use of occupant protection systems) surpassed the year 2000 target. Since seat belt use is a component of this objective, the achievement of the target level is probably a result of increased legislation and enforcement of State seat belt laws.

Figure 15. Death rates for work-related injuries among full-time workers according to selected occupations: United States, 1983-90, and year 2000 targets for objective 10.1



NOTE: Death rates are crude rates. Related tables in *Health, United States, 1992*, are 46, 47, and 75. The data in tables 46, 47, and 75 are age-adjusted.

SOURCE: Bureau of Labor Statistics, Annual Summary of Occupational Injuries and Illnesses.

Two objectives (10.2, nonfatal occupation-related injuries and 10.4, occupational skin disorders) remained relatively stable between 1988 and 1991, but were higher than the 1987 baseline. Objective 10.3 (cumulative trauma disorders) continued to increase between 1987 and 1991. Occupational lead exposure (10.8) increased considerably, but the number of States reporting also increased from 7 to 10.

Baselines were established for objectives 10.9 (hepatitis immunization), 10.12 (health and safety programs), and 10.14 (State safety and health programs for small

businesses). Three objectives (10.7, 10.11, and 10.15) remain without baseline data; the data is expected in mid-1993.

Data Issues

Description of Data Source

Work-related injury deaths (10.1) are tracked by the Bureau of Labor Statistics (BLS) of the Department of Labor (1). These data are compiled from a survey of employer logs of deaths among current employees. The rates are crude rates and may differ from age-adjusted rates calculated by

NIOSH and shown in other tables in Health United States.

The data are based on surveys; thus they do not capture all occupational deaths. While occupational deaths are a relatively rare event, comparisons of BLS data with other data sources suggest that there is considerable underreporting in the survey (6). Some of the disparity is attributable to differences

in the reporting of unintentional injuries which occur on the job as "work-related" (7). To address this problem, BLS will begin using the Census of Fatal Occupational Injuries (CFOI) to report 1992 work-related mortality. As this reporting mechanism will employ multiple sources to capture work-related deaths, the rates will probably increase.

Table 10. Occupational safety and health objective status

| Objective | 1987 baseline | | | | Target 2000 |
|---|--------------------|--------------------|-------|--------------------|----------------|
| | Original | Revised | 1990 | 1991 | |
| 10.1 Work-related injury deaths (per 100,000) | 16 | ... | 4.3 | --- | 4 |
| a. Mine workers | 130.3 | ... | 217.3 | --- | 21 |
| b. Construction workers | 125.0 | ... | 20.6 | --- | 17 |
| c. Transportation workers | 115.2 | ... | 10.0 | --- | 10 |
| d. Farm workers | 114.0 | ... | 23.8 | --- | 9.5 |
| 10.2 Nonfatal work-related injuries (per 100) | 7.7 | ... | 8.3 | 7.9 | 6 |
| a. Construction workers | 14.9 | ... | 14.1 | 12.8 | 10 |
| b. Nursing and personal care workers | 12.7 | ... | 15.4 | 15.0 | 9 |
| c. Farm workers | 12.4 | ... | 12.3 | 11.1 | 8 |
| d. Transportation workers | 8.3 | ... | 8.4 | 9.1 | 6 |
| e. Mine workers | 8.3 | ... | 8.1 | 7.1 | 6 |
| 10.3 Cumulative trauma disorders (per 100,000) | 100 | ... | 241 | 297 | 60 |
| a. Manufacturing industry workers | 355 | ... | 867 | --- | 150 |
| b. Meat product workers | 3,920 | ... | 8,245 | --- | 2,000 |
| 10.4 Occupational skin disorders (per 100,000) | 64 | ... | 79 | 77 | 55 |
| 10.5 Hepatitis B infections among occupationally exposed workers (number of cases) | 6,200 | ³ 3,090 | 1,258 | 2,576 | 1,250 |
| 10.6 Worksite occupant protection system mandates | ... | ⁴ 82.4% | --- | --- | 75% |
| 10.7 Occupational noise exposure | --- | ... | --- | --- | 15% |
| 10.8 Occupational lead exposure | ⁵ 4,804 | ... | 4,531 | ⁶ 7,842 | 0 |
| 10.9 Hepatitis B immunizations among occupationally exposed workers | ... | ² 37% | --- | --- | 90% |
| 10.10 Number of States with occupational health and safety plans | ² 10 | ... | --- | ⁴ 32 | 50 |
| 10.11 Number of States with occupational lung disease exposure standards | --- | ... | --- | --- | 50 |
| 10.12 Worksite health and safety programs | ... | ⁴ 63.8% | --- | --- | 70% |
| 10.13 Worksite back injury prevention and rehabilitation programs | ⁷ 28.6% | ... | --- | ⁴ 32.5% | 50% |
| 10.14 Number of States with programs for small business safety and health | ... | ⁸ 26 | --- | --- | 50 |
| 10.15 Clinician assessment of occupational health exposures | --- | ... | --- | --- | 75% |

¹1983-1987 average.

²1989 data.

³Data have been revised to reflect updated methodology; see Introduction.

⁴1992 data.

⁵1988 data in seven States.

⁶1992 data in 10 States.

⁷1985 data.

⁸1991 data.

NOTE: Data sources are in table C.

Occupational Safety and Health Objectives

10.1: Reduce deaths from work-related injuries to no more than 4 per 100,000 full-time workers.

10.1a: Reduce deaths among mine workers from work-related injuries to no more than 21 per 100,000 full-time workers.

10.1b: Reduce deaths among construction workers from work-related injuries to no more than 17 per 100,000 full-time workers.

10.1c: Reduce deaths among transportation workers from work-related injuries to no more than 10 per 100,000 full-time workers.

10.1d: Reduce deaths among farm workers from work-related injuries to no more than 9.5 per 100,000 full-time workers.

10.2: Reduce work-related injuries resulting in medical treatment, lost time from work, or restricted-work activity to no more than 6 cases per 100 full-time workers.

10.2a: Reduce work-related injuries among construction workers resulting in medical treatment, lost time from work, or restricted-work activity to no more than 10 cases per 100 full-time workers.

10.2b: Reduce work-related injuries among nursing and personal care workers resulting in medical treatment, lost time from work, or restricted-work activity to no more than 9 cases per 100 full-time workers.

10.2c: Reduce work-related injuries among farm workers resulting in medical treatment, lost time from work, or restricted-work activity to no more than 8 cases per 100 full-time workers.

10.2d: Reduce work-related injuries among transportation workers resulting in medical treatment, lost time from work, or restricted-work activity to no more than 6 cases per 100 full-time workers.

10.2e: Reduce work-related injuries among mine workers resulting in medical treatment, lost time from work, or restricted-work activity to no more than 6 cases per 100 full-time workers.

10.3: Reduce cumulative trauma disorders to an incidence of no more than 60 cases per 100,000 full-time workers.

10.3a: Reduce cumulative trauma disorders among manufacturing industry workers to an incidence of no more than 150 cases per 100,000 full-time workers.

10.3b: Reduce cumulative trauma disorders among meat product workers to an incidence of no more than 2,000 cases per 100,000 full-time workers.

10.4: Reduce occupational skin disorders or diseases to an incidence of no more than 55 per 100,000 full-time workers.

10.5*: Reduce hepatitis B infections among occupationally exposed workers to an incidence of no more than 1,250 cases.

Duplicate objective: 20.3e

10.6: Increase to at least 75 percent the proportion of worksites with 50 or more employees that mandate employee use of occupant protection systems, such as seatbelts, during all work-related motor vehicle travel.

10.7: Reduce to no more than 15 percent the proportion of workers exposed to average daily noise levels that exceed 85 dBA.

10.8: Eliminate exposures that result in workers having blood lead concentrations greater than 25 ug/dL of whole blood.

10.9*: Increase hepatitis B immunization levels to 90 percent among occupationally exposed workers.

Duplicate objective: 20.11

10.10: Implement occupational safety and health plans in 50 States for the identification, management, and prevention of leading work-related diseases and injuries within the State.

10.11: Establish in 50 States exposure standards adequate to prevent the major occupational lung diseases to which their worker populations are exposed (byssinosis, asbestos, coal workers' pneumoconiosis, and silicosis).

10.12: Increase to at least 70 percent the proportion of worksites with 50 or more employees that have implemented programs on worker health and safety.

10.13: Increase to at least 50 percent the proportion of worksites with 50 or more employees that offer back injury prevention and rehabilitation programs.

10.14: Establish in 50 States either public health or labor department programs that provide consultation and assistance to small businesses to implement safety and health programs for their employees.

10.15: Increase to at least 75 percent the proportion of primary care providers who routinely elicit occupational health exposures as a part of patient history and provide relevant counseling.

*Duplicate objective.

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3. National Safety Council. Accident Facts. Chicago, Illinois. 1988.
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Priority Area 11

Environmental Health

Background and Data Summary

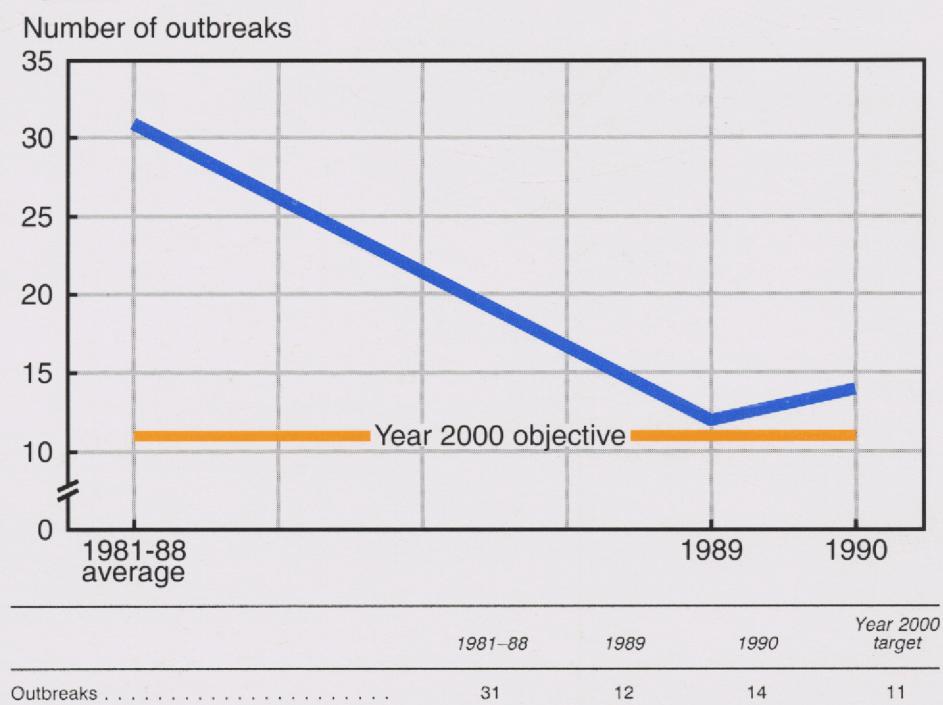
Environmental factors play a fundamental role in health and disease. One of the most famous public health interventions to control disease (cholera) succeeded through control of a contaminated public water supply (1). Despite this historic and other more recent successes, the etiology linking toxic exposure to disease is not well documented (2). The monitoring of public exposure to toxins and research into the relationship of toxic exposure to health and disease are important due to the increasing public and commercial use of hazardous substances (3).

Research may clarify current ambiguity about exposure thresholds. Dioxin continues to be the focus of research (4), but lead has been shown to have toxic effects at even lower exposure levels than originally believed (5,6). Research will aid priority setting among environmental and public health interventions.

The 16 objectives in this priority area cover a broad range of exposure media, including air, water, soil, and groundwater. They also include a variety of sources, such as radon, toxic chemicals, waterborne disease, and lead. Five of the objectives (11.3, 11.5, 11.7, 11.12, and 11.13) showed some progress towards the year 2000 targets. Two (11.12, and 11.13) relate to radon; despite extensive publicity about radon during the late 1980's and early 1990's, the rate of progress on these objectives is minimal.

Two objectives (11.1 and 11.9) showed movement away from the year 2000 targets. Asthma morbidity (11.1) increased slightly and the proportion of people who receive water that meets safe drinking water standards (11.9) decreased slightly from the 1989 baseline. Baseline data were established for objective 11.14 (health risks from hazardous waste); updated information shows an increase in the number of National Priorities List (NPL) sites, health

Figure 16. Outbreaks of waterborne disease: United States, 1981–88 average, 1989, 1990, and year 2000 target for objective 11.3



SOURCE: Centers for Disease Control and Prevention, Waterborne Surveillance System.

assessments and the number of sites with public health concerns. This objective is discussed further in the data issues section. Baseline data were also established for objective 11.11.

Data to assess progress were not available for six objectives (11.2, 11.4, 11.6, 11.8, 11.10, and 11.15). Two of these, blood lead levels (11.4) and programs to recycle waste (11.15), have received considerable public attention during recent years. Objective 11.16, State monitoring plans for tracking sentinel diseases, remains without baseline.

Data Issues

Definitions

The list of toxic agents used to monitor objective 11.7 (toxic agent

releases) has been revised by the Agency for Toxic Substances and Disease Registry (ATSDR) and Environmental Protection Agency's EPA and will be revised annually by the two agencies. This will pose problems in data comparability. The ATSDR is exploring ways to provide continued monitoring of this objective.

Objective 11.14 (health risks from hazardous waste sites) is currently tracked using the number of sites on the National Priorities List (NPL), the number of health assessments conducted at these sites, and the number of sites with public health concerns or hazards. No numeric target was identified in the original publication of *Healthy People 2000*.

The number of NPL sites, assessments, and sites with public health concerns frequently change

and will probably continue to increase due to the identification of additional sites and the duration of time required to clean up NPL sites (3).

Additionally, EPA is currently revising its method of NPL site identification and prioritization, so future additions to the NPL list may be based on different criteria. The comparability of the indicators being used to track this objective will be reviewed when these changes are implemented.

Of critical importance to monitoring progress for this objective is a measure of those sites which posed a health concern or hazard in the past but have subsequently been remediated. With the addition of this information, a ratio of sites which posed threats but have been remediated to sites which pose a threat could be used to track this objective. A target for the year 2000 could then be derived using estimates of required time for clean up and EPA workload data. The ATSDR is currently exploring mechanisms to address these issues.

Table 11. Environmental health objective status

| Objective | 1988 Baseline | | | | Target 2000 |
|--|-------------------------|--------------------------|--------|--------|----------------|
| | Original | Revised | 1990 | 1991 | |
| 11.1 Asthma hospitalizations (per 100,000) | 1188 | ... | 192 | 196 | 160 |
| a. Blacks and other nonwhites | 1334 | ... | 340 | 349 | 265 |
| b. Children 14 years and under | 1284 | ... | 308 | 339 | 225 |
| 11.2 Mental retardation (per 1,000 school aged children) | 22.7 | ... | --- | --- | 2 |
| 11.3 Waterborne diseases (number of outbreaks) | 31 | ... | 14 | --- | 11 |
| a. People served by community water systems | 13 | ... | --- | --- | 6 |
| 11.4 Blood lead levels exceeding 15 & 25 mg/dL | 43 million & 234,000 | ... | --- | --- | 500,000 & 0 |
| a. Inner-city low-income black children | 4234,900 & 36,700 | ... | --- | --- | 75,000 & 0 |
| 11.5 People in counties meeting criteria air pollutants. | 49.7% | ... | 569.4% | 65.3% | 85% |
| Ozone | 53.6% | ... | 74.2% | 72.0% | 85% |
| Carbon monoxide | 87.8% | ... | 91.1% | 92.0% | 85% |
| Nitrogen dioxide | 96.6% | ... | 96.5% | 96.5% | 85% |
| Sulfur dioxide | 99.3% | ... | 99.4% | 98.0% | 85% |
| Particulates | 89.4% | ... | 92.3% | 91.4% | 85% |
| Lead | 99.3% | ... | 97.8% | 94.1% | 85% |
| Total (any of above pollutants) | 49.7% | ... | 69.4% | 65.3% | 85% |
| 11.6 Radon testing | Less than 5% | ... | --- | --- | 40% |
| a. Homes with smokers and former smokers | --- | ... | --- | --- | 50% |
| b. Homes with children | --- | ... | --- | --- | 50% |
| 11.7 Toxic agent releases | | | | | |
| DHHS list of carcinogens (billion pounds) | 0.32 | ... | 50.30 | --- | 0.24 |
| ATSDR list of the most toxic chemicals (billion pounds) | | | | | |
| 200 substances | 2.62 | ... | 52.40 | --- | 2.60 |
| 250 substances | ... | 3.70 | 53.30 | --- | ... |
| 11.8 Solid waste (average pounds per person per day) | 4.0 | ... | --- | --- | 3.6 |
| 11.9 People receiving safe drinking water | 74% | ... | 73% | --- | 85% |
| 11.10 Contaminated surface water | 25% | ... | --- | --- | 15% |
| 11.11 Homes tested for lead-based paint | ... | 6.75% | --- | --- | 50% |
| 11.12 Number of States with construction standards to minimize radon concentrations | 51 | ... | 3 | --- | 35 |
| 11.13 Disclosure of lead and radon concentrations (number of States) | | | | | |
| Disclosure of lead | 52 | ... | 2 | 5 | 30 |
| Disclosure of radon | 51 | ... | 3 | 5 | 30 |
| 11.14 Significant health risks from hazardous waste sites (Indicators) | | | | | |
| Sites on list | 81,082 | ... | --- | 91,357 | ... |
| Health assessments conducted | 81,000 | ... | --- | 91,422 | ... |
| Sites with public health concerns/hazards | ... | 8124 | --- | 9254 | ... |
| 11.15 Counties with programs for recyclable materials and household hazardous waste | 1850 | programs in 41 States | ... | --- | 75% |
| 11.16 Number of States that track sentinel environmental diseases | --- | ... | --- | --- | 35 |

¹1987 data.

²1985-88 data.

³1981-88 data.

⁴1984 data.

⁵1989 data.

⁶1991 data.

⁷Data represent proportion of people with homes built before 1950 who report that their paint has been analyzed for lead content.

⁸1990 data.

⁹1992 data.

NOTE: Data sources are in table C.

Environmental Health Objectives

11.1: Reduce asthma morbidity, as measured by a reduction in asthma hospitalizations to no more than 160 per 100,000 people.

11.1a: Reduce asthma morbidity among blacks and other nonwhites, as measured by a reduction in asthma hospitalizations to no more than 265 per 100,000 people.

11.1b: Reduce asthma morbidity among children, as measured by a reduction in asthma hospitalizations to no more than 225 per 100,000 people.

11.2*: Reduce the prevalence of serious mental retardation among school-aged children to no more than 2 per 1,000 children.

Duplicate objective: 17.8

11.3: Reduce outbreaks of waterborne disease from infectious agents and chemical poisoning to no more than 11 per year.

NOTE: Community water systems are public or investor-owned water systems that serve large or small communities, subdivisions, or trailer parks with at least 15 service connections or 25 year-round residents.

11.3a: Reduce outbreaks of waterborne disease from infectious agents and chemical poisoning among people served by community water systems to no more than 6 per year.

11.4: Reduce the prevalence of blood lead levels exceeding 15 ug/dL and 25 ug/dL among children aged 6 months–5 years to no more than 500,000 and zero, respectively.

11.4a: Reduce the prevalence of blood lead levels exceeding 15 ug/dL and 25 ug/dL among inner-city low-income black children (annual family income less than \$6,000 in 1984 dollars) to no more than 75,000 and zero, respectively.

11.5: Reduce human exposure to criteria air pollutants, as measured by an increase to at least 85 percent in the proportion of people who live in counties that have not exceeded any Environmental Protection Agency standard for air quality in the previous 12 months.

NOTE: An individual living in a county that exceeds an air quality standard may not actually be exposed to unhealthy air. Of all criteria air pollutants, ozone is the most likely to have fairly uniform concentrations throughout an area. Exposure is to criteria air pollutants in ambient air. Due to weather fluctuations, multi-year averages may be the most appropriate way to monitor progress toward this objective.

11.6: Increase to at least 40 percent the proportion of homes in which homeowners/occupants have tested for radon concentrations and that have either been found to pose minimal risk or have been modified to reduce risk to health.

11.6a: Increase to at least 50 percent the proportion of homes with smokers and former smokers in which homeowners/ occupants have tested for radon concentrations and that have either been found to pose minimal risk or have been modified to reduce risk to health.

11.6b: Increase to at least 50 percent the proportion of homes with children in which homeowners/occupants have tested for radon concentrations and that have either been found to pose minimal risk or have been modified to reduce risk to health.

11.7: Reduce human exposure to toxic agents by confining total pounds of toxic agents released into the air, water, and soil each year to no more than:

0.24 billion pounds of those toxic agents included on the Department of Health and Human Services list of carcinogens.

2.6 billion pounds of those toxic agents included on the Agency for Toxic Substances and Disease Registry list of the most toxic chemicals.

11.8: Reduce human exposure to solid waste-related water, air, and soil contamination, as measured by a reduction in average pounds of municipal solid waste produced per person each day to no more than 3.6 pounds.

11.9: Increase to at least 85 percent the proportion of people who receive a supply of drinking water that meets the safe drinking water standards established by the Environmental Protection Agency.

NOTE: Safe drinking water standards are measured using Maximum Contaminant Level (MCL) standards set by the Environmental Protection Agency which define acceptable levels of contaminants. See objective 11.3 for definition of community water systems.

11.10: Reduce potential risks to human health from surface water, as measured by a decrease to no more than 15 percent in the proportion of assessed rivers, lakes, and estuaries that do not support beneficial uses, such as fishing and swimming.

NOTE: Designated beneficial uses, such as aquatic life support, contact recreation (swimming), and water supply, are designated by each State and approved by the Environmental Protection Agency. Support of beneficial use is a proxy measure of risk to human health, as many pollutants causing impaired water uses do not have human health effects (for example, siltation and impaired fish habitat).

11.11: Perform testing for lead-based paint in at least 50 percent of homes built before 1950.

11.12: Expand to at least 35 the number of States in which at least 75 percent of local jurisdictions have adopted construction standards and techniques that minimize elevated indoor radon levels in those new building areas locally determined to have elevated radon levels.

NOTE: Since construction codes are frequently adopted by local jurisdictions rather than States, progress toward this objective also may be tracked using the proportion of cities and counties that have adopted such construction standards.

11.13: Increase to at least 30 the number of States requiring that prospective buyers be informed of the presence of lead-based paint and radon concentrations in all buildings offered for sale.

11.14: Eliminate significant health risks from National Priority List hazardous waste sites, as measured by performance of clean-up at these sites sufficient to eliminate immediate and significant health threats as specified in health assessments completed at all sites.

NOTE: The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 required the Environmental Protection Agency to develop criteria for determining priorities among hazardous waste sites and to develop and maintain a list of these priority sites. The resulting list is called the National Priorities List (NPL).

11.15: Establish programs for recyclable materials and household hazardous waste in at least 75 percent of counties.

11.16: Establish and monitor in at least 35 States plans to define and track sentinel environmental diseases.

NOTE: Sentinel environmental diseases include lead poisoning, other heavy metal poisoning (e.g., cadmium, arsenic, and mercury), pesticide poisoning, carbon monoxide poisoning, heatstroke, hypothermia, acute chemical poisoning, methemoglobinemia, and respiratory diseases triggered by environmental factors (e.g., asthma).

*Duplicate objective.

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Priority Area 12

Food and Drug Safety

Background and Data Summary

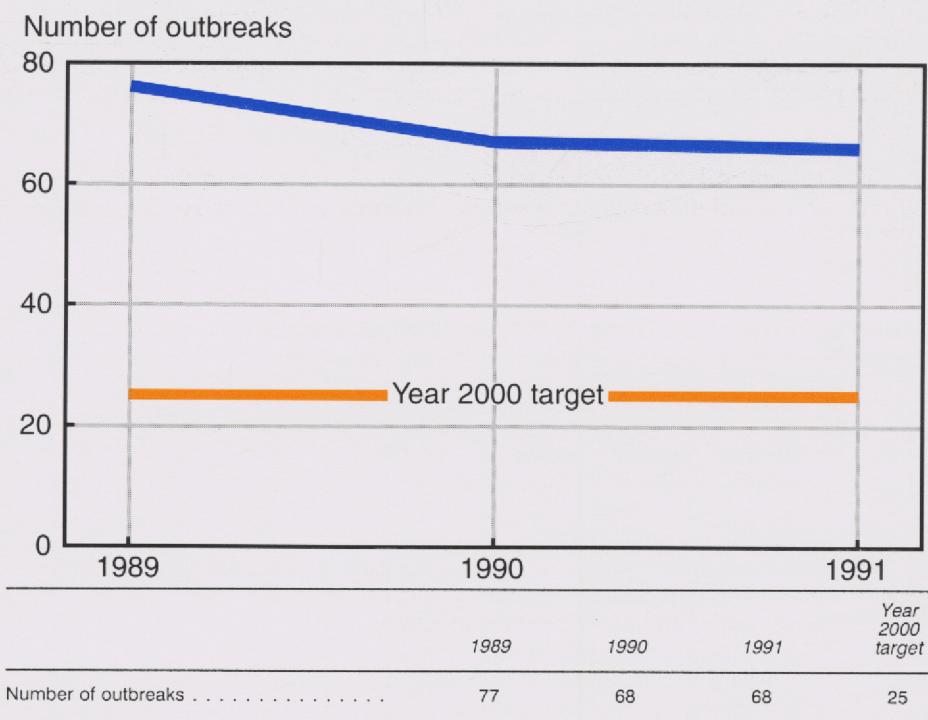
The development of systems to protect consumers from dangers posed by unapproved food additives, pesticides, food contaminants, and drugs has been a major public health accomplishment. Despite effective food and drug safety procedures, this country still experiences outbreaks of foodborne diseases and incidents of therapeutic drug-related illness and death. Foodborne disease outbreaks sometimes result from failures in protective systems, but are more often the result of improper food handling. *Salmonella enteritidis*, *Campylobacter jejuni*, *Escherichia coli* 0157:H7, and *Listeria monocytogenes* are four of the most common foodborne pathogens in the United States, based on numbers of reported cases and the severity of illness. Children, the very old, and people with immunological deficiencies are at increased risk of infection and death resulting from infection.

Older adults, who use more prescription and nonprescription medicines than younger people, are at increased risk of suffering adverse drug reactions. The physiological changes associated with increasing age and particular diseases and conditions may alter the effects of drugs. In addition, use of multiple medications increases the risk of an adverse outcome.

The food and drug safety priority area contains six objectives that address reductions in foodborne diseases and precautions to reduce adverse medication interactions, especially among older people.

Reported outbreaks of infections due to *Salmonella enteritidis* fell from 77 outbreaks in 1989 to 68 outbreaks in 1991 (objective 12.2). Data beyond baseline information are not available for three objectives (12.1, 12.3, and 12.4) and baseline levels still need to be established for two objectives (12.5 and 12.6). Objective 12.5 seeks to increase the proportion of pharmacies and other dispensers of prescription

Figure 17. Outbreaks due to *Salmonella enteritidis*: United States, 1989–91 and year 2000 target for objective 12.2



SOURCE: Centers for Disease Control and Prevention, National Center for Infectious Diseases, Salmonella Surveillance System.

medications that use linked systems to warn of potential adverse drug reactions. The Omnibus Budget Reconciliation Act of 1990 provides statutorial impetus for States to move toward this objective. Fifteen States currently plan to install point-of-sale, electronic drug claims processing systems in all their pharmacies that serve the Medicaid population by January 1994 (1).

Data Issues

Data Source Descriptions

Various surveillance systems of the Centers for Disease Control and Prevention (CDC), including the Salmonella Surveillance System, the

Campylobacter Surveillance System, and the Bacterial Meningitis Surveillance System are used to monitor progress for objectives 12.1 and 12.2. The Salmonella Surveillance System is a passive laboratory-based system that uses reports from 49 States, the Food and Drug Administration, and the Department of Agriculture. This system measures the incidence of infection from salmonella species (12.1) and the number of outbreaks caused by *Salmonella enteritidis* (12.2). Many factors, including the intensity of surveillance, the severity of the illness, access to medical care, and association with a recognized outbreak, affect whether the infection will be reported. Reporting is incomplete; the incidence of

salmonellosis is substantially underreported.

The Campylobacter Surveillance System is also a passive system that receives weekly reports of laboratory isolates of campylobacter. The number of participating States has increased each year. Surveillance mechanisms, including laboratory isolation procedures, vary from State to State. These issues must be taken into account when interpreting trends in campylobacter incidence.

The incidence of foodborne Listeria monocytogenes is measured

using the Bacterial Meningitis Surveillance System. This is an active, laboratory-based surveillance system conducted in six States; it counts all cases of bacterial meningitis and other invasive bacterial diseases caused by the five most common pathogens causing bacterial meningitis, including *Listeria monocytogenes*. The participating surveillance areas represent several regions throughout the country and a population of 33.5 million, 14 percent of the U.S. population.

A surveillance system to track the incidence of *E. Coli* 0157:H7 is not available. Estimates of the incidence of cases of this disease are obtained from special studies (2,3). A survey of State public health laboratories conducted by CDC in 1989 demonstrated that *E. Coli* 0157:H7 has been detected in most areas of the United States (4). Laboratory methods varied from State to State; improved surveillance data are needed to determine trends in incidence.

Table 12. Food and drug safety objective status

| | Objective | Baseline | 1990 | 1991 | Target |
|-------------|--|------------------|------|------|--------|
| | | 1987 | | | 2000 |
| 12.1 | Foodborne infections (cases per 100,000) | | | | |
| | Salmonella species | 18 | --- | --- | 16 |
| | Campylobacter jejuni..... | 50 | --- | --- | 25 |
| | Escherichia coli 0157:H7..... | 8 | --- | --- | 4 |
| | Listeria monocytogenes | 0.7 | --- | --- | 0.5 |
| 12.2 | <i>Salmonella enteriditidis</i> outbreaks | 177 | 68 | 68 | 25 |
| 12.3 | Refrigeration and cutting board practices | | | | |
| | For refrigeration of perishable foods..... | ² 70% | --- | --- | 75% |
| | For washing cutting boards with soap | ² 66% | --- | --- | 75% |
| | For washing utensils with soap..... | ² 55% | --- | --- | 75% |
| 12.4 | Food protection standards (proportion of States) | | | | |
| | Institutional food operations currently using FDA's model codes..... | ³ 20% | --- | --- | 70% |
| | Using "Unicode" | ³ 0% | --- | --- | 70% |
| 12.5 | Pharmacies with linked systems..... | --- | --- | --- | 75% |
| 12.6 | Providers reviewing medication for older patients..... | --- | --- | --- | 75% |

¹1989 data.

²1988 data.

³1990 data.

NOTE: Data sources are in table C.

Food and Drug Safety Objectives

12.1: Reduce infections caused by key foodborne pathogens to incidences of no more than:

| Disease | 2000 target (per 100,000) |
|--------------------------|---------------------------|
| Salmonella species | 16 |
| Campylobacter | 25 |
| Escherichia coli 0157:H7 | 4 |
| Listeria monocytogenes | 0.5 |

12.2: Reduce outbreaks of infections due to *Salmonella enteritidis* to fewer than 25 outbreaks yearly.

12.3: Increase to at least 75 percent the proportion of households in which principal food preparers routinely refrain from leaving perishable food out of the refrigerator for over 2 hours and wash cutting boards and utensils with soap after contact with raw meat and poultry.

12.4: Extend to at least 70 percent the proportion of States and territories that have implemented model food codes for institutional food operations and to at least 70 percent the proportion that have adopted the new uniform food protection code ("Unicode") that sets recommended standards for regulation of all food operations.

12.5: Increase to at least 75 percent the proportion of pharmacies and other dispensers of prescription medications that use linked systems to provide alerts to potential adverse drug reactions among medications dispensed by different sources to individual patients.

12.6: Increase to at least 75 percent the proportion of primary care providers who routinely review with their patients aged 65 and older all prescribed and over-the-counter medicines taken by their patients each time a new medication is prescribed.

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Priority Area 13

Oral Health

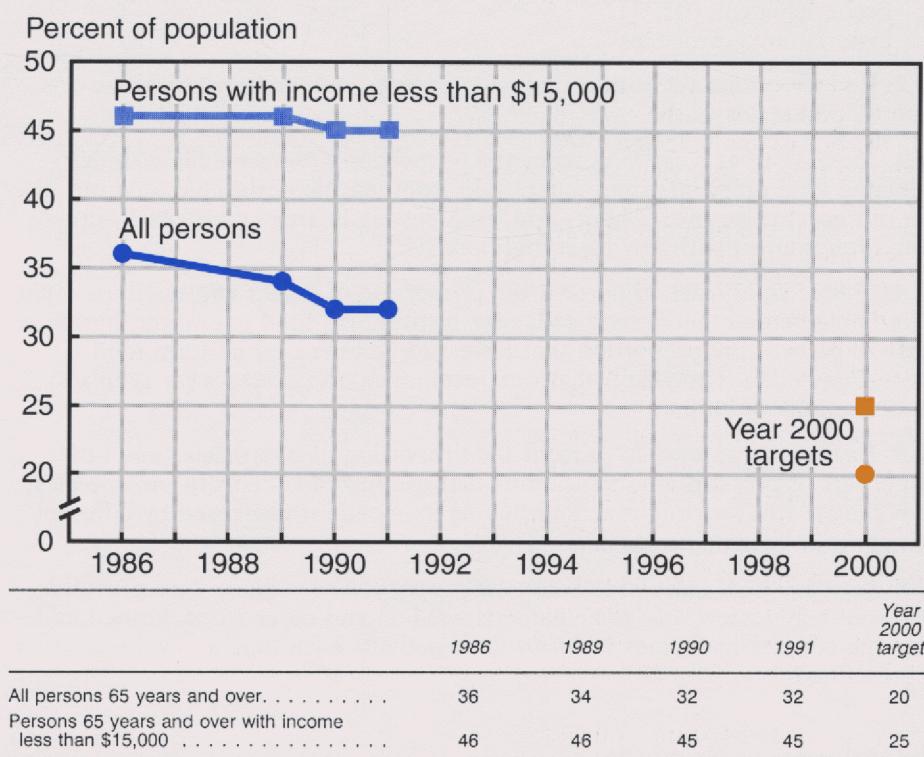
Background and Data Summary

Oral diseases are among the most common health problems in the United States. Even though the overall prevalence of dental caries among school-aged children has declined steadily since the 1940's, half of them have had at least some decay in their permanent teeth (1). Among people aged 40–44 years, an average of more than 30 tooth surfaces have been affected by decay (1). Periodontal diseases are also a chronic problem. For example, 40 to 50 percent of adults (1) and 60 percent of 15-year olds experience gingival infections (2). Despite a steady decline in tooth loss over the past several decades, 36 percent of people 65 years of age and over have lost all of their natural teeth (3). Expenditures for dental care are projected to reach \$40 billion in 1992 (4). In 1989 dental visits or problems resulted in 148 hours missed from work per 100 employed people, 117 hours missed from school per 100 school-aged children, and 17 days with restricted activity per 100 people among the total U.S. population (5).

Progress has been made toward achievement of oral health objectives. Small improvements were observed in the proportion of 8- and 14-year olds who had received dental sealants (objective 13.8) and there have been small increases in the proportion of adults who have had a regular dental visit in the preceding year (13.14). Complete tooth loss (13.4) is less common in older adults overall, although there has been no change among those with lower incomes. Oral cancer mortality rates (13.7) have decreased modestly among men and women aged 45–74 years.

Objective 13.12, regarding the proportion of children who have visited a dentist in the past year, is moving away from the target. Recent data beyond the baseline are not available for nine objectives in this priority area. However, for two of these objectives (13.1 and 13.2) recent data are available for the subobjectives targeting American

Figure 18. Percent of persons 65 years and over who have lost all of their natural teeth: United States, 1986–91 and year 2000 targets for objective 13.4



NOTE: A related table in *Health, United States, 1992*, is 82.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health Interview Survey.

Indians and Alaska Natives. These data show mixed results. Information on dental caries among 6–8 year-old children are not comparable to baseline, which showed prevalence separately for primary and permanent teeth. Among 15 year-olds, prevalence of dental caries declined slightly. Untreated dental caries increased among 6–8 year-olds and declined among 15 year-olds.

New data are available to establish baselines for objective 13.11 and the subobjectives on the proportion of parents and caregivers who use feeding practices that prevent baby bottle tooth decay. For the total population and for caregivers with less than a high school

education, feeding practices that prevent baby bottle tooth decay were determined for children aged 6–23 months who had ever used a bottle. The preventive feeding practices included children no longer using a bottle and children not given a bottle at bedtime (excluding bottles with plain water) in the past 2 weeks. Although new data were not available for topical and systemic fluoride use among people in areas without fluoridated water (13.10), data are provided that show the proportion of people using these products in the United States overall. Baseline data on oral examination and services requirements for institutions other than nursing facilities (13.13) are not yet available.

Data Issues

Proxy Measures

Nationally representative data on topical or systemic fluoride use among people not receiving optimally fluoridated public water are not readily obtainable. It is difficult to identify a national sample of people who are not served by a fluoridated water system. Survey interview methods are limited because many people cannot accurately state the fluoridation status of their water supply. For example, in the 1990 National Health Interview Survey (NHIS), 21 percent of respondents believed that the purpose of water fluoridation was to purify water and 17 percent did not know the reason (6). Presumably, these people and possibly others would also not correctly identify whether their water supply was fluoridated. For this reason, additional baseline data for this objective is use of fluoridated products among all U.S. residents. The measurement of use of fluoride products among people without fluoridated water is estimated from the 1989 NHIS data and information on water fluoridation patterns in the United States.

Comparability of Data Sources

Information on the proportion of 5 year old children and adults aged 35 years and older who visited a dentist in the past 12 months (13.12 and 13.14, respectively) is obtained from supplements to the NHIS. In 1986 and 1989 these data were obtained from a knowledgeable respondent who provided information for all people in the household. The question on dental visits in the past 12 months followed questions about dental visits and problems in the past 2 weeks. The question on visits in the past 2 weeks was not included in the 1991 survey. These may have differentially affected recall about visits in the past 12 months. Among adults, a person sampled from each family provided information only for himself or herself and not others in the household in the 1991 survey.

Table 13. Oral health objective status

| | Objective | 1986–87 baseline | | | | Target 2000 |
|--------------|---|------------------|---------|------|------|----------------|
| | | Original | Revised | 1990 | 1991 | |
| 13.1 | Dental caries | | | | | |
| | Children 6–8 years | 53% | ... | --- | --- | 35% |
| | Adolescents 15 years | 78% | ... | --- | --- | 60% |
| a. | Children 6–8 years whose parents have less than high school education | 70% | ... | --- | --- | 45% |
| b. | American Indian/Alaska Native children 6–8 years | | | | | |
| | Primary or permanent teeth | --- | ... | --- | 88% | 45% |
| | Primary teeth | 192% | ... | --- | --- | ... |
| | Permanent teeth | 152% | ... | --- | --- | ... |
| c. | Black children 6–8 years | 61% | ... | --- | --- | 40% |
| d. | American Indian/Alaska Native adolescents 15 years | | | | | |
| | Permanent teeth | 193% | ... | --- | 91% | 70% |
| 13.2 | Untreated dental caries | | | | | |
| | Children 6–8 years | 27% | ... | --- | --- | 20% |
| a. | Children whose parents have less than a high school education .. | 43% | ... | --- | --- | 30% |
| b. | American Indian/Alaska Native children | 164% | ... | --- | 70% | 35% |
| c. | Black children | 38% | ... | --- | --- | 25% |
| d. | Hispanic children | 236% | ... | --- | --- | 25% |
| | Adolescents 15 years | 23% | ... | --- | --- | 15% |
| a. | Adolescents whose parents have less than a high school education | 41% | ... | --- | --- | 25% |
| b. | American Indian/Alaska Native adolescents | 184% | ... | --- | 59% | 40% |
| c. | Black adolescents | 38% | ... | --- | --- | 20% |
| d. | Hispanic adolescents | 231–47% | ... | --- | --- | 25% |
| 13.3 | No tooth loss | | | | | |
| | People 35–44 years | 331% | ... | --- | --- | 45% |
| 13.4 | Complete tooth loss | | | | | |
| | People 65 years and over | 436% | ... | 32% | 32% | 20% |
| a. | Low-income people | | | | | |
| | (annual family income less than \$15,000) | 446% | ... | 45% | 45% | 25% |
| 13.5 | Gingivitis | | | | | |
| | People 35–44 years | 342% | ... | --- | --- | 30% |
| a. | Low-income people | | | | | |
| | (annual family income less than \$12,000) | 350% | ... | --- | --- | 35% |
| b. | American Indians/Alaska Natives | 195% | ... | --- | 96% | 50% |
| c. | Hispanics | --- | ... | --- | --- | 50% |
| | Mexican Americans | 274% | ... | --- | --- | ... |
| | Cubans | 279% | ... | --- | --- | ... |
| | Puerto Ricans | 282% | ... | --- | --- | ... |
| 13.6 | Periodontal diseases | | | | | |
| | People 35–44 years | 324% | ... | --- | --- | 15% |
| 13.7 | Oral cancer deaths | | | | | |
| | Males 45–74 years (per 100,000) | 512.1 | 5,613.6 | 13.4 | --- | 10.5 |
| | Females 45–74 years (per 100,000) | 54.1 | 5,64.8 | 4.6 | --- | 4.1 |
| 13.8 | Protective sealants | | | | | |
| | Children 8 years | 11% | ... | 717% | --- | 50% |
| | Adolescents 14 years | 8% | ... | 713% | --- | 50% |
| 13.9 | Water fluoridation | | | | | |
| | People served by optimally fluoridated water | 762% | 7,861% | --- | --- | 75% |
| 13.10 | Topical and systemic fluorides | | | | | |
| | People in nonfluoridated areas who use fluoride | 750% | ... | --- | --- | 85% |
| | US-wide data people using: | | | | | |
| | Toothpaste containing fluoride | ... | 494% | --- | --- | ... |
| | Fluoride mouthrinse | | | | | |
| | Children and adolescents 6–17 years | ... | 722.0% | --- | --- | ... |
| | People 18 years and over | ... | 77.7% | --- | --- | ... |
| | Fluoride supplements | | | | | |
| | Children and adolescents 2–16 | ... | 710.3% | --- | --- | ... |

Table 13. Oral health objective status—Con.

| Objective | 1986–87 baseline | | | | Target 2000 |
|--|-------------------|---------|------|------|----------------|
| | Original | Revised | 1990 | 1991 | |
| 13.11 Baby bottle tooth decay | | | | | |
| Parents and caregivers who use preventive feeding practices..... | ... ¹ | 51% | --- | --- | 75% |
| a. Parents and caregivers with less than high school education | ... ¹ | 31% | --- | --- | 65% |
| b. American Indian/Alaska Native parents and caregivers | ... ¹⁰ | 74% | --- | --- | 65% |
| 13.12 Oral health screening, referral, and follow-up | | | | | |
| Children 5 years who visited the dentist in the past year | 466% | ... | 760% | 63% | 90% |
| 13.13 Oral health care at institutional facilities | --- | ... | --- | --- | 100% |
| Nursing facilities | 11Required | ... | --- | --- | ... |
| Federal prisons | --- | ... | --- | --- | ... |
| Nonfederal prisons | --- | ... | --- | --- | ... |
| Juvenile homes..... | --- | ... | --- | --- | ... |
| Detention facilities..... | --- | ... | --- | --- | ... |
| 13.14 Regular dental visits | | | | | |
| People 35 years and over..... | 454% | ... | 755% | 58% | 70% |
| a. Edentulous people | 411% | ... | 713% | 13% | 50% |
| b. People 65 years and over | 442% | ... | 743% | 47% | 60% |
| 13.15 Oral health care for infants with cleft lip and/or palate | | | | | |
| Number of States with existing systems for recording and referring infants | 1225 | ... | --- | --- | 40 |
| 13.16 Protective equipment in sporting and recreation events | --- | ... | --- | --- | 100% |
| National Collegiate Athletic Association | | | | | |
| Football | 12Required | ... | --- | --- | ... |
| Hockey..... | 12Required | ... | --- | --- | ... |
| Lacrosse | 12Required | ... | --- | --- | ... |
| High school football | 12Required | ... | --- | --- | ... |
| Amateur boxing..... | 12Required | ... | --- | --- | ... |
| Amateur ice hockey | 12Required | ... | --- | --- | ... |

¹1983–84 data.

²1982–84 data.

³1985–86 data.

⁴1986 data.

⁵1987 data.

⁶Data have been recomputed to reflect revised intercensal population estimates; see *Health, United States, 1992*, Appendix I.

⁷1989 data.

⁸Data have been revised. Original data were estimated based on preliminary analyses; see introduction.

⁹1991 data.

¹⁰1985–89 data.

¹¹1990 data.

¹²1988 data.

NOTE: Data sources are in table C.

Oral Health Objectives

13.1: Reduce dental caries (cavities) so that the proportion of children with one or more caries (in permanent or primary teeth) is no more than 35 percent among children aged 6–8 and no more than 60 percent among adolescents aged 15.

13.1a: Reduce dental caries (cavities) so that the proportion of children with one or more caries (in permanent or primary teeth) is no more than 45 percent among children aged 6–8 whose parents have less than high school education.

13.1b: Reduce dental caries (cavities) so that the proportion of children with one or more caries (in permanent or primary teeth) is no more than 45 percent among American Indian and Alaska Native children aged 6–8.

13.1c: Reduce dental caries (cavities) so that the proportion of children with one or more caries (in permanent or primary teeth) is no more than 40 percent among black children aged 6–8.

13.1d: Reduce dental caries (cavities) so that the proportion of adolescents with one or more caries (in permanent teeth) is no more than 70 percent among American Indian and Alaska Native adolescents aged 15.

13.2: Reduce untreated dental caries so that the proportion of children with untreated caries (in permanent or primary teeth) is no more than 20 percent among children aged 6–8 and no more than 15 percent among adolescents aged 15.

13.2a: Reduce untreated dental caries so that the proportion of lower socioeconomic status children (those whose parents have less than a high school education) with untreated dental caries (in permanent or primary teeth) is no more than 30 percent among children aged 6–8 and no more than 25 percent among adolescents aged 15.

13.2b: Reduce untreated dental caries so that the proportion of American Indian and Alaska Native children with untreated caries (in permanent or primary teeth) is no more than 35 percent among children aged 6–8 and no more than 40 percent among adolescents aged 15.

13.2c: Reduce untreated dental caries so that the proportion of black children with untreated caries (in permanent or primary teeth) is no more than 25 percent among children aged 6–8 and no more than 20 percent among adolescents aged 15.

13.2d: Reduce untreated dental caries so that the proportion of Hispanic children with untreated caries (in permanent or primary teeth) is no more than 25 percent among children aged 6–8 and no more than 25 percent among adolescents aged 15.

13.3: Increase to at least 45 percent the proportion of people aged 35–44 who have never lost a permanent tooth due to dental caries or periodontal diseases.

NOTE: Never lost a permanent tooth is having 28 natural teeth exclusive of third molars.

13.4: Reduce to no more than 20 percent the proportion of people aged 65 and older who have lost all of their natural teeth.

13.4a: Reduce to no more than 25 percent the proportion of low-income people (annual family income less than \$15,000) aged 65 and older who have lost all of their natural teeth.

13.5: Reduce the prevalence of gingivitis among people aged 35–44 to no more than 30 percent.

13.5a: Reduce the prevalence of gingivitis among low-income people (annual family income less than \$12,500) aged 35–44 to no more than 35 percent.

13.5b: Reduce the prevalence of gingivitis among American Indians and Alaska Natives aged 35–44 to no more than 50 percent.

13.5c: Reduce the prevalence of gingivitis among Hispanics aged 35–44 to no more than 50 percent.

13.6: Reduce destructive periodontal diseases to a prevalence of no more than 15 percent among people aged 35–44.

NOTE: Destructive periodontal disease is one or more sites with 4 millimeters or greater loss of tooth attachment.

13.7: Reduce deaths due to cancer of the oral cavity and pharynx to no more than 10.5 per 100,000 men aged 45–74 and 4.1 per 100,000 women aged 45–74.

13.8: Increase to at least 50 percent the proportion of children who have received protective sealants on the occlusal (chewing) surfaces of permanent molar teeth.

NOTE: Progress toward this objective will be monitored based on prevalence of sealants in children at ages 8 and 14, when first and second molars, respectively are erupted.

13.9: Increase to at least 75 percent the proportion of people served by community water systems providing optimal levels of fluoride.

NOTE: Optimal levels of fluoride are determined by the mean maximum daily air temperature over a 5-year period and range between 0.7 and 1.2 parts of fluoride per one million parts of water (ppm).

13.10: Increase use of professionally or self-administered topical or systemic (dietary) fluorides to at least 85 percent of people not receiving optimally fluoridated public water.

13.11*: Increase to at least 75 percent the proportion of parents and caregivers who use feeding practices that prevent baby bottle tooth decay.

Duplicate objective: 2.12

13.11a*: Increase to at least 65 percent the proportion of parents and caregivers with less than a high school education who use feeding practices that prevent baby bottle tooth decay.

Duplicate objective: 2.12a

13.11b*: Increase to at least 65 percent the proportion of American Indian and Alaska Native parents and caregivers who use feeding practices that prevent baby bottle tooth decay.

Duplicate objective: 2.12b

13.12: Increase to at least 90 percent the proportion of all children entering school programs for the first time who have received an oral health screening, referral, and followup for necessary diagnostic, preventive, and treatment services.

NOTE: School programs include Head Start, prekindergarten, kindergarten, and first grade.

13.13: Extend to all long-term institutional facilities the requirement that oral examinations and services be provided no later than 90 days after entry into these facilities.

NOTE: Long term institutional facilities include nursing homes, prisons, and juvenile homes, and detention facilities.

13.14: Increase to at least 70 percent the proportion of people aged 35 and older using the oral health care system during each year.

13.14a: Increase to at least 50 percent the proportion of edentulous people using the oral health care system during each year.

13.14b: Increase to at least 60 percent the proportion of people aged 65 and older using the oral health care system during each year.

13.15: Increase to at least 40 the number of States that have an effective system for recording and referring infants with cleft lips and/or palates to craniofacial anomaly teams.

13.16*: Extend requirement of the use of effective head, face, eye, and mouth protection to all organizations, agencies, and institutions sponsoring sporting and recreation events that pose risk of injury.

Duplicate objective: 9.19

*Duplicate objective

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Priority Area 14

Maternal and Infant Health

Background and Data Summary

Improving the health of mothers and infants is a national challenge. Of every 1,000 babies born in the United States each year, about 9 die before their first birthday (1). Although the infant mortality rate in the United States continues to decline and has reached an all-time low, in recent years the pace of progress has slowed. Important measures of increased risk of infant death, such as incidence of low birth weight and receipt of prenatal care, show little or no recent improvement. The mortality rate for black infants is twice the rate for white infants, and there is evidence that this difference is increasing (2).

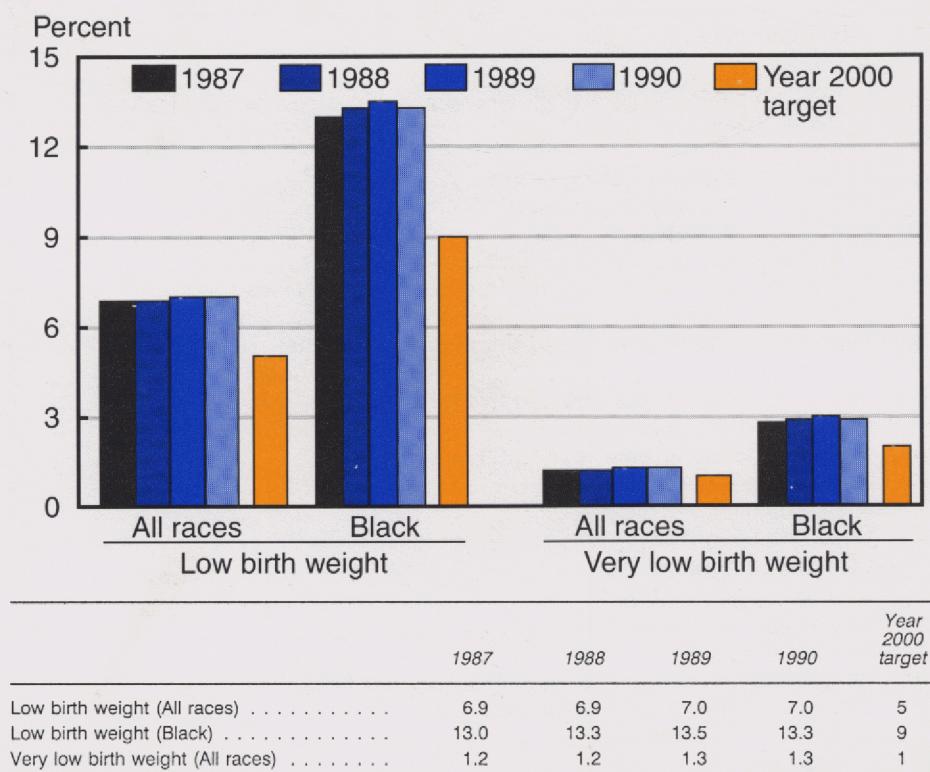
Of the 16 Maternal and Infant Health objectives for the total population, 7 moved toward the year 2000 targets (objectives 14.1, 14.2, 14.6, 14.7, 14.8, 14.10, and 14.15); 5 moved away from the targets (14.3, 14.4, 14.5, 14.9, and 14.11). Data to update progress for the remaining four objectives are not yet available. For some objectives, even though the overall objective is showing progress, the picture for minority racial subgroups is less encouraging. For example, although the overall infant, neonatal, and postneonatal mortality rates are declining (objective 14.1, 14.1d, and 14.1g), postneonatal rates among black infants (14.1h) are not improving. Further reductions in infant mortality and morbidity will require a focus on strategies to modify the behaviors and lifestyles that affect birth outcomes.

Data Issues

Definitions

In 1989 NCHS changed the method for tabulating race for live births, assigning to the infant the race of mother rather than using the previous, more complicated algorithm for race of child. This change affects the natality data by race in this chapter. In addition, because live

Figure 19. Proportion of live births that are low birth weight and are very low birth weight by race of mother: United States, 1987–90 and year 2000 targets for objective 14.5



NOTE: Related tables in *Health, United States, 1992*, are 8, 11, and 12. See definition of birth weight in *Health, United States, 1992*, Appendix II.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System.

births comprise the denominator of infant (including neonatal and postneonatal), maternal mortality, and fetal death rates, these rates are also affected. These changes are described in the technical notes and in greater detail in a 1991 NCHS publication (3).

Quantitatively, the change in the basis for tabulating live births by race results in more births to the white population and fewer births to the black population and other races. Because of changes in the denominators, infant mortality rates (14.1), fetal death rates (14.2), and maternal mortality rates (14.3) under the new classification tend to be

lower for white infants and higher for infants of other races than they would be when computed by the previous method. Conversely, natality measures such as percent low birth weight (14.5) and percent receiving early care (14.11) tend to be higher for white births and lower for births of other races.

The special target populations for racial subgroups in this priority area are being monitored with the "new" data by race of mother. Therefore, the original baselines (by race of child) for these racial subgroups have been recomputed by race of mother to allow comparable trend comparisons.

Studies indicate that infant mortality for minorities other than blacks from the annual vital statistics files have been seriously underestimated (4). Therefore, infant

mortality (objective 14.1) for American Indians and Alaska Natives and for Puerto Ricans is being monitored through data from the

Linked Infant Birth and Infant Death Files, which categorizes deaths by the race of mother as reported on the birth certificate.

Table 14. Maternal and infant health objective status

| Objective | 1987 baseline | | | | | Target 2000 |
|---|---------------|---------|-------|------|-----------------|----------------|
| | Original | Revised | 1990 | 1991 | | |
| 14.1 Infant mortality (per 1,000 live births) | 10.1 | ... | 9.2 | 18.9 | 7 | |
| a. Blacks | 17.9 | 218.8 | 18.0 | --- | 11 | |
| b. American Indians/Alaska Natives | 312.5 | 2,313.4 | 413.0 | --- | 8.5 | |
| c. Puerto Ricans | 312.9 | ... | 49.9 | --- | 8 | |
| d. Neonatal mortality | 6.5 | ... | 5.8 | 15.5 | 4.5 | |
| e. Neonatal mortality among blacks | 11.7 | 212.3 | 11.6 | --- | 7 | |
| f. Neonatal mortality among Puerto Ricans | 38.6 | ... | 46.7 | --- | 5.2 | |
| g. Postneonatal mortality | 3.6 | ... | 3.4 | 13.4 | 2.5 | |
| h. Postneonatal mortality among blacks | 6.1 | 26.4 | 6.4 | --- | 4 | |
| i. Postneonatal mortality among American Indians/Alaska Natives | 36.5 | 2,37.0 | 46.8 | --- | 4 | |
| j. Postneonatal mortality among Puerto Ricans | 34.3 | ... | 43.2 | --- | 2.8 | |
| 14.2 Fetal deaths (per 1,000 live births plus fetal deaths) | 7.6 | ... | 7.5 | --- | 5 | |
| a. Blacks | 12.8 | 213.5 | 13.7 | --- | 7.5 | |
| 14.3 Maternal mortality (per 100,000 live births) | 6.6 | ... | 8.2 | --- | 3.3 | |
| a. Blacks | 14.2 | 214.9 | 22.4 | --- | 5 | |
| 14.4 Fetal alcohol syndrome (per 1,000 live births) | 0.22 | ... | 0.41 | --- | 0.12 | |
| a. American Indians/Alaska Natives | 4.0 | ... | 5.2 | --- | 2.0 | |
| b. Blacks | 0.8 | ... | 1.4 | --- | 0.4 | |
| 14.5 Low birth weight | 6.9% | ... | 7.0% | --- | 5% | |
| Very low birth weight | 1.2% | ... | 1.3% | --- | 1% | |
| a. Low-birth weight blacks | 12.7% | 213.0% | 13.3% | --- | 9% | |
| b. Very-low birth weight blacks | 2.7% | 22.8% | 2.9% | --- | 2% | |
| 14.6 Recommended weight gain during pregnancy | 567% | 5,668% | 775% | --- | 85% | |
| 14.7 Severe complications of pregnancy (per 100 deliveries) | 22 | ... | 18 | 18 | 15 | |
| 14.8 Cesarean delivery (per 100 deliveries) | 24.4 | ... | 23.5 | 23.5 | 15 | |
| a. Primary (first time) cesarean delivery | 17.4 | ... | 16.8 | 17.1 | 12 | |
| b. Repeat cesarean deliveries (among woman with previous cesarean delivery) | 91.2 | ... | 79.6 | 75.8 | 65 | |
| 14.9 Breastfeeding | | | | | | |
| During early postpartum period | 754% | ... | 52% | 53% | 75% | |
| a. Low-income mothers | 732% | ... | 35% | 33% | 75% | |
| b. Black mothers | 725% | ... | 16% | 26% | 75% | |
| c. Hispanic mothers | 751% | ... | 44% | 52% | 75% | |
| d. American Indian/Alaska Native mothers | 747% | ... | 47% | 46% | 75% | |
| At 5–6 months | 721% | ... | 18% | 18% | 50% | |
| a. Low-income mothers | 79% | ... | 8% | 9% | 50% | |
| b. Black mothers | 78% | ... | 7% | 7% | 50% | |
| c. Hispanic mothers | 716% | ... | 14% | 16% | 50% | |
| d. American Indian/Alaska Native mothers | 728% | ... | 27% | 22% | 50% | |
| 14.10 Alcohol, tobacco, and drug use during pregnancy | | | | | | |
| Abstinence from | | | | | | |
| Tobacco | 875% | ... | 79% | 80% | 90% | |
| Alcohol | --- | ... | 779% | --- | Increase by 20% | |
| Cocaine | --- | ... | 799% | --- | Increase by 20% | |
| Marijuana | --- | ... | 798% | --- | Increase by 20% | |
| 14.11 Prenatal care in the first trimester (percent of live births) | 76.0% | ... | 75.8% | --- | 90% | |
| a. Blacks | 61.1% | 260.8% | 60.6% | --- | 90% | |
| b. American Indians/Alaska Natives | 60.2% | 257.6% | 57.9% | --- | 90% | |
| c. Hispanics | 61.0% | ... | 60.2% | --- | 90% | |

Table 14. Maternal and infant health objective status – Con.

| Objective | 1987 baseline | | | | Target 2000 |
|---|---------------|---------|-------------------|------|----------------|
| | Original | Revised | 1990 | 1991 | |
| 14.12 Age-appropriate preconception counseling by clinicians | --- | ... | --- | --- | 60% |
| 14.13 Counseling on detection of fetal abnormalities. | ... | 729% | --- | --- | 90% |
| 14.14 Pregnant women and infants receiving risk-appropriate care. | --- | ... | --- | --- | 90% |
| 14.15 Newborn screening and treatment | | | | | |
| Screened by State-sponsored programs for genetic disorders and other conditions | --- | ... | --- | --- | 95% |
| Testing positive for disease and receiving appropriate treatment. | --- | ... | --- | --- | 90% |
| Sickle cell screening | %33% | ... | ¹⁰ 89% | --- | ... |
| Black infants | %57% | ... | ¹¹ 77% | --- | ... |
| Newborns diagnosed positive for sickle cell anemia receiving treatment. | --- | ... | 95% | --- | ... |
| Galactosemia screening (38 states) | 70% | ... | 97% | --- | ... |
| Newborns diagnosed positive for galactosemia receiving treatment | --- | ... | 100% | --- | ... |
| 14.16 Babies receiving primary care. | --- | ... | --- | --- | 90% |

¹Provisional data.

²Data have been revised to reflect the change in tabulating births from the race of the child to the race of the mother; see *Health, United States, 1992*, Appendix I.

³1984 data.

⁴1987 data.

⁵1980 data for married females who had a full-term live birth and prenatal care.

⁶Data have been revised to reflect updated methodology; see Introduction.

⁷1988 data.

⁸1985 data.

⁹Based on 20 States reporting.

¹⁰Based on 43 States reporting.

¹¹Based on 9 States reporting.

NOTE: Data sources are in table C.

Maternal and Infant Health Objectives

14.1: Reduce the infant mortality rate to no more than 7 per 1,000 live births.

NOTE: Infant mortality is deaths of infants under 1 year; neonatal mortality is deaths of infants under 28 days; and postneonatal mortality is deaths of infants aged 28 days up to 1 year.

14.1a: Reduce the infant mortality rate among blacks to no more than 11 per 1,000 live births.

14.1b: Reduce the infant mortality rate among American Indians and Alaska Natives to no more than 8.5 per 1,000 live births.

14.1c: Reduce the infant mortality rate among Puerto Ricans to no more than 8 per 1,000 live births.

14.1d: Reduce the neonatal mortality rate to no more than 4.5 per 1,000 live births.

14.1e: Reduce the neonatal mortality rate among blacks to no more than 7 per 1,000 live births.

14.1f: Reduce the neonatal mortality rate among Puerto Ricans to no more than 5.2 per 1,000 live births.

14.1g: Reduce the postneonatal mortality rate to no more than 2.5 per 1,000 live births.

14.1h: Reduce the postneonatal mortality rate among blacks to no more than 4 per 1,000 live births.

14.1i: Reduce the postneonatal mortality rate among American Indians and Alaska Natives to no more than 4 per 1,000 live births.

14.1j: Reduce the postneonatal mortality rate among Puerto Ricans to no more than 2.8 per 1,000 live births.

14.2: Reduce the fetal death rate (20 or more weeks of gestation) to no more than 5 per 1,000 live births plus fetal deaths.

14.2a: Reduce the fetal death rate (20 or more weeks of gestation) among blacks to no more than 7.5 per 1,000 live births plus fetal deaths.

14.3: Reduce the maternal mortality rate to no more than 3.3 per 100,000 live births.

NOTE: The objective uses the maternal mortality rate as defined by the National Center for Health Statistics. However, if other sources of maternal mortality data are used, a 50-percent reduction in maternal mortality is the intended target.

14.3a: Reduce the maternal mortality rate among black women to no more than 5 per 100,000 live births.

14.4: Reduce the incidence of fetal alcohol syndrome to no more than 0.12 per 1,000 live births.

14.4a: Reduce the incidence of fetal alcohol syndrome among American Indians and Alaska Natives to no more than 2 per 1,000 live births.

14.4b: Reduce the incidence of fetal alcohol syndrome among blacks to no more than 0.4 per 1,000 live births.

14.5: Reduce low birth weight to an incidence of no more than 5 percent of live births and very low birth weight to no more 1 percent of live births.

NOTE: Low birth weight is weight at birth of less than 2,500 grams; very low birth weight is weight at birth of less than 1,500 grams.

14.5a: Reduce low birth weight among blacks to an incidence of no more than 9 percent of live births and very low birth weight to no more 2 percent of live births.

14.6: Increase to at least 85 percent the proportion of mothers who achieve the minimum recommended weight gain during their pregnancies.

NOTE: Recommended weight gain is pregnancy weight gain recommended in the 1990 National Academy of Science's report, Nutrition During Pregnancy.

14.7: Reduce severe complications of pregnancy to no more than 15 per 100 deliveries.

NOTE: Severe complications of pregnancy will be measured using hospitalizations due to pregnancy-related complications.

14.8: Reduce the cesarean delivery rate to no more than 15 per 100 deliveries.

14.8a: Reduce the primary (first time) cesarean delivery rate to no more than 12 per 100 deliveries.

14.8b: Reduce the repeat cesarean delivery rate to no more than 65 per 100 deliveries among women who had a previous cesarean delivery.

14.9*: Increase to at least 75 percent the proportion of mothers who breastfeed their babies in the early postpartum period and to at least 50 percent the proportion who continue breastfeeding until their babies are 5 to 6 months old.

Duplicate objective: 2.11

14.9a*: Increase to at least 75 percent the proportion of low-income mothers who breastfeed their babies in the early postpartum period and to at least 50 percent the proportion who continue breastfeeding until their babies are 5 to 6 months old.

Duplicate objective: 2.11a

14.9b*: Increase to at least 75 percent the proportion of black mothers who breastfeed their babies in the early postpartum period and to at least 50 percent the proportion who continue breastfeeding until their babies are 5 to 6 months old.

Duplicate objective: 2.11b

14.9c*: Increase to at least 75 percent the proportion of Hispanic mothers who breastfeed their babies in the early postpartum period and to at least 50 percent the proportion who continue breastfeeding until their babies are 5 to 6 months old.

Duplicate objective: 2.11c

14.9d*: Increase to at least 75 percent the proportion of American Indian and Alaska Native mothers who breastfeed their babies in the early postpartum period and to at least 50 percent the proportion who continue breastfeeding until their babies are 5 to 6 months old.

Duplicate objective: 2.11d

14.10: Increase abstinence from tobacco use by pregnant women to at least 90 percent and increase abstinence from alcohol, cocaine, and marijuana by pregnant women by at least 20 percent.

14.11: Increase to at least 90 percent the proportion of all pregnant women who receive prenatal care in the first trimester of pregnancy.

14.11a: Increase to at least 90 percent the proportion of pregnant black women who receive prenatal care in the first trimester of pregnancy.

14.11b: Increase to at least 90 percent the proportion of pregnant American Indian and Alaska Native women who receive prenatal care in the first trimester of pregnancy.

14.11c: Increase to at least 90 percent the proportion of pregnant Hispanic women who receive prenatal care in the first trimester of pregnancy.

14.12*: Increase to at least 60 percent the proportion of primary care providers who provide age-appropriate preconception care and counseling.

Duplicate objective: 05.10

14.13: Increase to at least 90 percent the proportion of women enrolled in prenatal care who are offered screening and counseling on prenatal detection of fetal abnormalities.

NOTE: This objective will be measured by tracking use of maternal serum alpha-feto protein screening tests.

14.14: Increase to at least 90 percent the proportion of pregnant women and infants who receive risk-appropriate care.

NOTE: This objective will be measured by tracking the proportion of very low-birth weight infants (less than 1,500 grams) born in facilities covered by a neonatologist 24 hours a day.

14.15: Increase to at least 95 percent the proportion of newborns screened by State-sponsored programs for genetic disorders and other disabling conditions and to 90 percent the proportion of newborns testing positive for disease who receive appropriate treatment.

NOTE: As measured by the proportion of infants served by programs for sickle cell anemia and galactosemia. Screening programs should be appropriate for State demographic characteristics.

14.16: Increase to at least 90 percent the proportion of babies aged 18 months and younger who receive recommended primary care services at the appropriate intervals.

*Duplicate objective.

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Priority Area 15

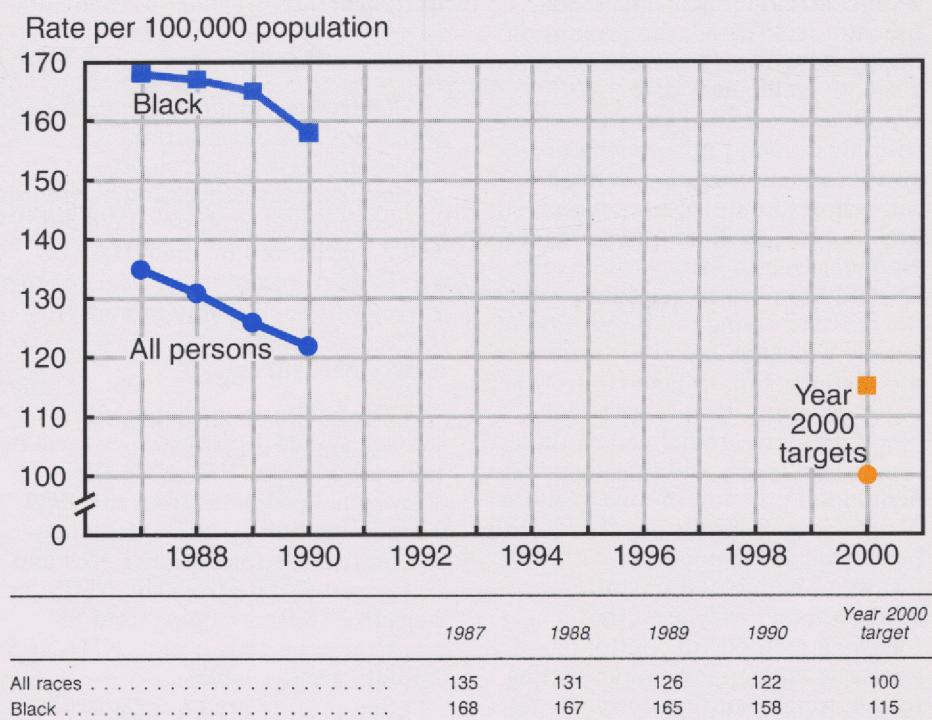
Heart Disease and Stroke

Background

Over the past 15 years the death rate for cardiovascular disease has declined dramatically: 35 percent for all cardiovascular disease, 40 percent for coronary heart disease, and more than 50 percent for stroke. Even so, cardiovascular diseases—primarily coronary heart disease and stroke—kill nearly as many Americans as all other diseases combined (1). Cardiovascular disease is also among the leading causes of disability (2). The major modifiable risk factors for cardiovascular disease are high blood pressure, high blood cholesterol, and cigarette smoking. Other important risk factors are obesity, physical inactivity, and diabetes mellitus. Approximately 26 percent of adults have high blood pressure (3). Overall, black persons have a higher prevalence of high blood pressure than white persons. About 60 million adults have high blood cholesterol requiring medical advice and intervention (4,5). Twenty-six percent of adults are current cigarette smokers (See chapter 3, Tobacco).

Of 17 objectives in the heart disease and stroke priority area, data for nine objectives show improvements toward meeting the year 2000 targets (objectives 15.1, 15.2, 15.4, 15.5, 15.11, 15.12, 15.13, 15.14, and 15.17). Mortality due to coronary heart disease (15.1) and stroke (15.2) declined from the 1987 baseline through 1990 in the population as a whole; however, for both causes of death, black persons have much higher mortality rates and the decline in mortality over the same time period was much less substantial. A small improvement in the proportion of adults who have ever had their blood cholesterol checked was noted for the period 1988 to 1991 (15.14). Information is not available regarding the proportion of adults who have had their cholesterol checked in the preceding 5 years as specified in the objective. New baseline data were obtained for

Figure 20. Age-adjusted death rates for coronary heart disease: United States, 1987–90 and year 2000 targets for objective 15.1



NOTE: Death rates are age adjusted. ICD codes differ from similar categories published in *Health, United States* and elsewhere. See table A for specific codes. Related tables in *Health, United States, 1992*, are 28 and 35 for diseases of heart.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System.

one objective (15.16). Self-reported data for proxy tracking of objective 15.10 (proportion of the population that is overweight) indicate movement away from the target. The rate of end stage renal disease (15.3) is also moving away from the target. Data on dietary fat intake (15.9) showed no change. Recent data are not available for three objectives (15.6, 15.7, and 15.8). Baseline data are needed for objective 15.15.

Data Issues

Definitions

Objective 15.4 addresses the proportion of people with hypertension whose blood pressure is

under control. High blood pressure is defined as blood pressure greater than 140/90 mm Hg. The estimates used to track this objective define control as using antihypertensive medication only and do not include nonpharmacologic treatments (such as weight loss, low sodium diets or restriction of alcohol) as a method of keeping blood pressure under control. The 1976–80 baseline is from the second National Health and Nutrition Examination Survey (NHANES II), which covered people 18–74 years of age; 1988–91 preliminary data from the NHANES III are for people 18 years and over. The 1982–84 baseline originally published in *Healthy People 2000* (2) from the Seven States Study, representing the medians of data from selected States, will no longer be used for tracking this objective. In

1976-80, among all people with high blood pressure (whether aware or unaware of their condition), only 11 percent were on medication and had their condition under control; 1988-91 preliminary data indicate that 21 percent of people with hypertension had their condition under control. Among people being treated for hypertension, 33 percent were controlling their high blood pressure in 1976-80; the proportion has increased to 43 percent based on 1988-91 preliminary data.

Objective 15.5 refers to people with high blood pressure who are aware of their condition defined by self-reported data and not blood pressure measurement. Data from the National Health Interview Survey (NHIS) are used to measure progress towards increasing the proportion of people with high blood pressure who are taking action to help control their blood pressure. People with high blood pressure are defined as those who report being told that they had high blood pressure on two or more occasions by a doctor or other health professional. Respondents with a history of high blood pressure were asked whether they used the following methods to control blood pressure: taking medication, dieting to lose weight, cutting down on salt, and exercising.

Comparability of Data Sources

Objective 15.13 addresses blood pressure screening and whether people know if their blood pressure is normal or high. Data for the 1985 baseline and for 1990 show the proportion of people 18 years of age and over who had their blood pressure measured within the preceding 2 years by a health professional or other trained observer and who can state the diastolic and systolic values of the measure. The proportion of adults 18 years and over who had their blood pressure checked within the previous 2 years and who could state whether their blood pressure was high, normal, or low was 86 percent in 1990 and 85 percent in 1991. This measure is not available for the 1985 baseline.

Objective 15.14, proportion of people who have had their blood cholesterol checked within the preceding 5 years, has been tracked with three different surveys. The

baseline data are from the 1988 Health and Diet Survey; 1990 data are from the Cholesterol Awareness Survey; and 1991 data are from the NHIS. Data from these three surveys indicate that the percent of the population who have ever had their blood cholesterol measured is increasing. However, these differences may be due in part to survey differences.

Data Availability

Objectives 15.6, 15.7, and 15.8, which address mean serum cholesterol level, high blood cholesterol prevalence, and awareness of a high blood cholesterol condition, will be measured by the NHANES III. Data from the first 3 years of this survey will be available in mid-1993.

Proxy Measures

Objectives 15.9 (dietary fat intake) and 15.10 (overweight) will be measured by the NHANES III. Provisional estimates from the 1989 Continuing Survey of Food Intakes for Individuals for objective 15.9 and self-reported data from the NHIS for objective 15.10 are being used to track these objectives until NHANES III data are available.

See priority area 1 for a discussion of self-reported height and weight (15.10), as well as light to moderate physical activity (15.11).

Table 15. Heart disease and stroke objective status

| Objective | 1987 baseline | | | | Target 2000 |
|--|---------------------------|------------------------|------------------|-------------------|----------------|
| | Original | Revised | 1990 | 1991 | |
| 15.1 Coronary heart disease deaths (age adjusted per 100,000) | 135 | ¹ No change | 122 | --- | 100 |
| a. Blacks (age adjusted per 100,000) | 163 | ¹ 168 | 158 | --- | 115 |
| 15.2 Stroke deaths (age adjusted per 100,000) | 30.3 | ¹ 30.4 | 27.7 | --- | 20.0 |
| a. Blacks (age adjusted per 100,000) | 51.2 | ¹ 52.5 | 48.4 | --- | 27.0 |
| 15.3 End-stage renal disease (per 100,000) | 13.9 | ² 14.4 | 18.4 | --- | 13.0 |
| a. Blacks | 32.4 | ² 34.0 | 43.0 | --- | 30.0 |
| 15.4 Controlled high blood pressure³ | | | | | |
| People with high blood pressure 18 years and over | 4, ⁵ 11% | ... | ⁶ 21% | --- | 50% |
| a. Males with high blood pressure | 36% | ... | ⁶ 16% | --- | 40% |
| 15.5 Taking action to control blood pressure | | | | | |
| People 18 years and over | 779% | ... | 80% | --- | 90% |
| a. White hypertensive males 18–34 years | 751% | ... | 54% | --- | 80% |
| b. Black hypertensive males 18–34 years | 763% | ... | 56% | --- | 80% |
| 15.6 Mean serum cholesterol level (mg/dL) | | | | | |
| People 20–74 years | 4213 | ... | --- | --- | 200 |
| 15.7 High blood cholesterol prevalence | | | | | |
| People 20–74 years | 427% | ... | --- | --- | 20% |
| 15.8 Awareness of high blood cholesterol condition | | | | | |
| Adults with high blood cholesterol | 830% | ... | --- | --- | 60% |
| 15.9 Dietary fat intake among people 2 years and over | | | | | |
| People 2 years and over | | | | | |
| Percent of calories from total fat | --- | ... | --- | --- | 30% |
| Percent of calories from saturated fat | --- | ... | --- | --- | 10% |
| People 20–74 years | | | | | |
| Percent of calories from total fat | 436% | ... | ⁹ 36% | --- | ... |
| Percent of calories from saturated fat | 413% | ... | ⁹ 13% | --- | ... |
| Females 19–50 years | | | | | |
| Percent of calories from total fat | 736% | ... | --- | --- | ... |
| Percent of calories from saturated fat | 713% | ... | --- | --- | ... |
| 15.10 Overweight prevalence | | | | | |
| People 20 years and over | 426% | ... | 27% | 28% | 20% |
| Males | 424% | ... | 27% | 28% | ... |
| Females | 427% | ... | 27% | 28% | ... |
| Adolescents 12–19 years | 415% | ... | --- | --- | 15% |
| a. Low-income females 20 years over | 437% | ... | 37% | 39% | 25% |
| b. Black females 20 years and over | 444% | ... | 42% | 44% | 30% |
| c. Hispanic females 20 years and over | ... | ⁶ 27% | 33% | 32% | 25% |
| Mexican-American females | ¹⁰ 39% | ... | --- | 38% | ... |
| Cuban females | ¹⁰ 34% | ... | --- | --- | ... |
| Puerto Rican females | ¹⁰ 37% | ... | --- | --- | ... |
| d. American Indians/Alaska Natives | ¹¹ 29–75% | ... | --- | 40% | 30% |
| e. People with disabilities | ⁶ 36% | ... | --- | 38% | 25% |
| f. Females with high blood pressure | ³ 50% | ... | --- | --- | 41% |
| g. Males with high blood pressure | ³ 39% | ... | --- | --- | 35% |
| 15.11 Moderate physical activity | | | | | |
| People 6 years and over | --- | ... | --- | --- | 30% |
| People 18–74 years | | | | | |
| 5 or more times per week | ^{7,12} No change | ... | 23% | 24% | ... |
| 7 or more times per week | ^{7,12} 16% | - | 16% | 17% | ... |
| 15.12 Cigarette smoking prevalence | | | | | |
| People 20 years and over | 29% | ... | 26% | 26% | 15% |
| Males | 32% | ... | 28% | 28% | ... |
| Females | 27% | ... | 23% | 24% | ... |
| a. People with high school education or less | | | | | |
| 20 years and over | 34% | ... | 31% | 32% | 20% |
| b. Blue-collar workers 20 years and over | 36% | ... | 37% | 36% | 20% |
| c. Military personnel | ¹³ 42% | ... | --- | ¹⁴ 35% | 20% |
| d. Blacks 20 years and over | 34% | ... | 27% | 30% | 18% |
| e. Hispanics 20 years and over | ¹⁰ 33% | ... | 24% | 20% | 18% |

Table 15. Heart disease and stroke objective status—Con.

| Objective | 1987 baseline | | | | | Target 2000 |
|--|----------------------|---------|-------------------|------|-----|----------------|
| | Original | Revised | 1990 | 1991 | | |
| f. American Indians/Alaska natives | ¹⁵ 42–70% | ... | 38% | 33% | 20% | |
| g. Southeast Asian males | ¹¹ 55% | ... | ¹⁶ 35% | --- | 20% | |
| h. Females of reproductive age (18–44 years) | 29% | ... | 26% | 27% | 12% | |
| i. Pregnant females | ⁷ 25% | ... | 19% | 20% | 10% | |
| j. Females who use oral contraceptives | ¹⁷ 36% | ... | ¹³ 26% | --- | 10% | |
| 15.13 Knowledge of blood pressure values | | | | | | |
| People 18 years and over | ⁷ 61% | ... | 67% | --- | 90% | |
| 15.14 Blood cholesterol checked in past 5 years | | | | | | |
| People 18 years and over | --- | ... | --- | --- | 75% | |
| Ever checked | ¹³ 59% | ... | 65% | 63% | ... | |
| Within past 2 years | 52% | ... | --- | 50% | ... | |
| 15.15 Primary care providers who provide appropriate therapy for high blood cholesterol | --- | ... | --- | --- | 75% | |
| 15.16 Worksite blood pressure/cholesterol education programs | | | | | | |
| High blood pressure and/or cholesterol activity | ¹⁴ 35% | ... | --- | --- | 50% | |
| High blood pressure activity | ⁷ 16.5% | ... | --- | --- | ... | |
| Nutrition education activity | ⁷ 16.8% | ... | --- | --- | ... | |
| 15.17 Laboratory accuracy in cholesterol measurement | ⁵ 53% | ... | ¹⁸ 84% | --- | 90% | |

¹Data have been recomputed to reflect revised intercensal population estimates; see *Health, United States, 1992*, Appendix I.

²Data have been revised. Original data were estimated based on preliminary analyses; see Introduction.

³The published 1982–84 Seven States Study baseline of 24 percent of adults 18 years and over with hypertension who are controlling their high blood pressure will not be used for tracking.

⁴1976–80 data.

⁵People 18–74 years.

⁶1988–91 provisional estimates from NHANES III for people 18 years and over.

⁷1985 data.

⁸Data source for updates has changed; previously published tracking data will be replaced.

⁹1989 data.

¹⁰1982–84 data.

¹¹1984–88 data.

¹²Data source has been changed and data have been revised to reflect updated methodology; see Introduction.

¹³1988 data.

¹⁴1992 data.

¹⁵1979–87 data.

¹⁶Vietnamese males only.

¹⁷1983 data.

¹⁸1987 data.

NOTE: Data sources are in table C.

Heart Disease and Stroke Objectives

15.1*: Reduce coronary heart disease deaths to no more than 100 per 100,000 people.

Duplicate objectives: 1.1, 2.1, and 3.1

15.1a*: Reduce coronary heart disease deaths among blacks to no more than 115 per 100,000 people.

Duplicate objectives: 1.1a, 2.1a, and 3.1a

15.2: Reduce stroke deaths to no more than 20 per 100,000 people.

15.2a: Reduce stroke deaths among blacks to no more than 27 per 100,000.

15.3: Reverse the increase in end-stage renal disease (requiring maintenance dialysis or transplantation) to attain an incidence of no more than 13 per 100,000.

15.3a: Reverse the increase in end-stage renal disease (requiring maintenance dialysis or transplantation) among black persons to attain an incidence of no more than 30 per 100,000.

15.4: Increase to at least 50 percent the proportion of people with high blood pressure whose blood pressure is under control.

****NOTE:** People with high blood pressure have blood pressure equal to or greater than 140 mm Hg systolic and/or 90 mm Hg diastolic and/or take antihypertensive medication. Blood pressure control is defined as maintaining a blood pressure less than 140 mm Hg systolic and 90 mm Hg diastolic. Nonpharmacologic treatment (e.g., through weight loss, low sodium diets, or restriction of alcohol) is not included.

15.4a: Increase to at least 40 percent the proportion of men with high blood pressure whose blood pressure is under control.

15.5: Increase to at least 90 percent the proportion of people with high blood pressure who are taking action to help control their blood pressure.

****NOTE:** Self-reported data are used for this objective. People with high blood pressure are defined as people who have been told that they have high blood pressure on two or more occasions by a doctor or other health professional.

Actions to control blood pressure include taking medication, dieting to lose weight, cutting down on salt, and exercising.

15.5a: Increase to at least 80 percent the proportion of white hypertensive men aged 18–34 who are taking action to help control their blood pressure.

15.5b: Increase to at least 80 percent the proportion of black hypertensive men aged 18–34 who are taking action to help control their blood pressure.

15.6: Reduce the mean serum cholesterol level among adults to no more than 200 mg/dL.

15.7: Reduce the prevalence of blood cholesterol levels of 240 mg/dL or greater to no more than 20 percent among adults.

15.8: Increase to at least 60 percent the proportion of adults with high blood cholesterol who are aware of their condition and are taking action to reduce their blood cholesterol to recommended levels.

NOTE: "High blood cholesterol" means a level that requires diet and, if necessary, drug treatment. Action to control high blood cholesterol include keeping medical appointments, making recommended dietary changes (e.g., reducing saturated fat, total fat, and dietary cholesterol), and, if necessary, taking prescribed medication.

15.9*: Reduce dietary fat intake to an average of 30 percent of calories or less and average saturated fat intake to less than 10 percent of calories among people aged 2 and older.

Duplicate objectives: 2.5 and 16.7

15.10*: Reduce overweight to a prevalence of no more than 20 percent among people aged 20 and older and no more than 15 percent among adolescents aged 12–19.

NOTE: For people aged 20 and older, overweight is defined as body mass index (BMI) equal to or greater than 27.8 for men and 27.3 for women. For adolescents, overweight is defined as BMI equal to or greater than 23.0 for males aged 12–14, 24.3 for males aged 15–17, 25.8 for males aged 18–19, 23.4 for females aged 12–14, 24.8 for females aged 15–17, and 25.7 for females aged 18–19. The values for adolescents are the age- and gender-specific 85th percentile values of the 1976–80 National Health and Nutrition Examination Survey (NHANES II), corrected for sample variation. BMI is calculated by dividing weight in kilograms by the square of height in meters. The cut points used to define overweight approximate the 120 percent of desirable body weight definition used in the 1990 objectives.

Duplicate objectives: 1.2, 2.3, and 17.12

15.10a*: Reduce overweight to a prevalence of no more than 25 percent among low-income women aged 20 and older.

Duplicate objectives: 1.2a, 2.3a, and 17.12a

15.10b*: Reduce overweight to a prevalence of no more than 30 percent among black women aged 20 and older.

Duplicate objectives: 1.2b, 2.3b, and 17.12b

15.10c*: Reduce overweight to a prevalence of no more than 25 percent among Hispanic women aged 20 and older.

Duplicate objectives: 1.2c, 2.3c, and 17.12c

15.10d*: Reduce overweight to a prevalence of no more than 30 percent among American Indians and Alaska Natives.

Duplicate objectives: 1.2d, 2.3d, and 17.12d

15.10e*: Reduce overweight to a prevalence of no more than 25 percent among people with disabilities.

Duplicate objectives: 1.2e, 2.3e, and 17.12e

15.10f*: Reduce overweight to a prevalence of no more than 41 percent among women with high blood pressure aged 20 and older.

Duplicate objectives: 1.2f, 2.3f, and 17.12f

15.10g*: Reduce overweight to a prevalence of no more than 35 percent among men with high blood pressure aged 20 and older.

Duplicate objectives: 1.2g, 2.3g, and 17.12g

15.11*: Increase to at least 30 percent the proportion of people aged 6 and older who engage regularly, preferably daily, in light to moderate physical activity for at least 30 minutes per day.

NOTE: Light to moderate physical activity requires sustained, rhythmic muscular movements, is at least equivalent to sustained walking, and is performed at less than 60 percent of maximum heart rate for age. Maximum heart rate equals roughly 220 beats per minute minus age. Examples may include walking, swimming, cycling, dancing, gardening and yard work, various domestic and occupational activities, and games and other childhood pursuits.

Duplicate objectives: 1.3 and 17.13

15.12*: Reduce cigarette smoking to a prevalence of no more than 15 percent among people aged 20 and older.

NOTE: A cigarette smoker is a person who has smoked at least 100 cigarettes and currently smokes cigarettes.

Duplicate objectives: 3.4 and 16.6

15.12a*: Reduce cigarette smoking to a prevalence of no more than 20 percent among people aged 20 and older with a high school education or less.

Duplicate objectives: 3.4a and 16.6a

15.12b*: Reduce cigarette smoking to a prevalence of no more than 20 percent among blue-collar workers aged 20 and older.

Duplicate objectives: 3.4b and 16.6b

15.12c*: Reduce cigarette smoking to a prevalence of no more than 20 percent among military personnel.

Duplicate objectives: 3.4c and 16.6c

15.12d*: Reduce cigarette smoking to a prevalence of no more than 18 percent among blacks aged 20 and older.

Duplicate objectives: 3.4d and 16.6d

15.12e*: Reduce cigarette smoking to a prevalence of no more than 18 percent among Hispanics aged 20 and older.

Duplicate objectives: 3.4e and 16.6e

15.12f*: Reduce cigarette smoking to a prevalence of no more than 20 percent among American Indians and Alaska Natives.

Duplicate objectives: 3.4f and 16.6f

15.12g*: Reduce cigarette smoking to a prevalence of no more than 20 percent among Southeast Asian men.

Duplicate objectives: 3.4g and 16.6g

15.12h*: Reduce cigarette smoking to a prevalence of no more than 12 percent among women of reproductive age.

Duplicate objectives: 3.4h and 16.6h

15.12i*: Reduce cigarette smoking to a prevalence of no more than 10 percent among pregnant women.

Duplicate objectives: 3.4i and 16.6i

15.12j*: Reduce cigarette smoking to a prevalence of no more than 10 percent among women who use oral contraceptives.

Duplicate objectives: 3.4j and 16.6j

15.13: Increase to at least 90 percent the proportion of adults who have had their blood pressure measured within the preceding 2 years and can state whether their blood pressure was normal or high.

NOTE: A blood pressure measurement within the preceding 2 years refers to a measurement by a health professional or other trained observer.

15.14: Increase to at least 75 percent the proportion of adults who have had their blood cholesterol checked within the preceding 5 years.

15.15: Increase to at least 75 percent the proportion of primary care providers who initiate diet and, if necessary, drug therapy at levels of blood cholesterol consistent with current management guidelines for patients with high blood cholesterol.

NOTE: Current treatment recommendations are outlined in detail in the Report of the Expert Panel on the Detection, Evaluation, and Treatment of High Blood Cholesterol in Adults, released by the National Cholesterol Education Program in 1987. Guidelines appropriate for children are currently being established. Treatment recommendations are likely to be refined over time. Thus, for the year 2000, "current" means whatever recommendations are then in effect.

15.16: Increase to at least 50 percent the proportion of worksites with 50 or more employees that offer high blood pressure and/or cholesterol education and control activities to their employees.

15.17: Increase to at least 90 percent the proportion of clinical laboratories that meet the recommended accuracy standard for cholesterol measurement.

*Duplicate objective.

**Updated from original note in *Healthy People 2000*.

References

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5. Sempos C, Fulwood R, Haines C, et al. The prevalence of high blood cholesterol levels among adults in the United States. JAMA 262: 45-52. 1989.
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Priority Area 16

Cancer

Background and Data Summary

Cancer accounts for nearly one out of every four deaths in the United States (1). Cancer is not one disease, but a constellation of more than 1,000 different diseases, each characterized by the uncontrolled growth and spread of abnormal cells. Of the 250 million Americans now living, about 75 million will eventually have cancer. While the incidence of cancer has increased in the past two decades, death rates for those under 55 have fallen. More people are surviving cancer now than several decades ago (2). Research has demonstrated that many cancers can be prevented or, if detected and treated at early stages, cured.

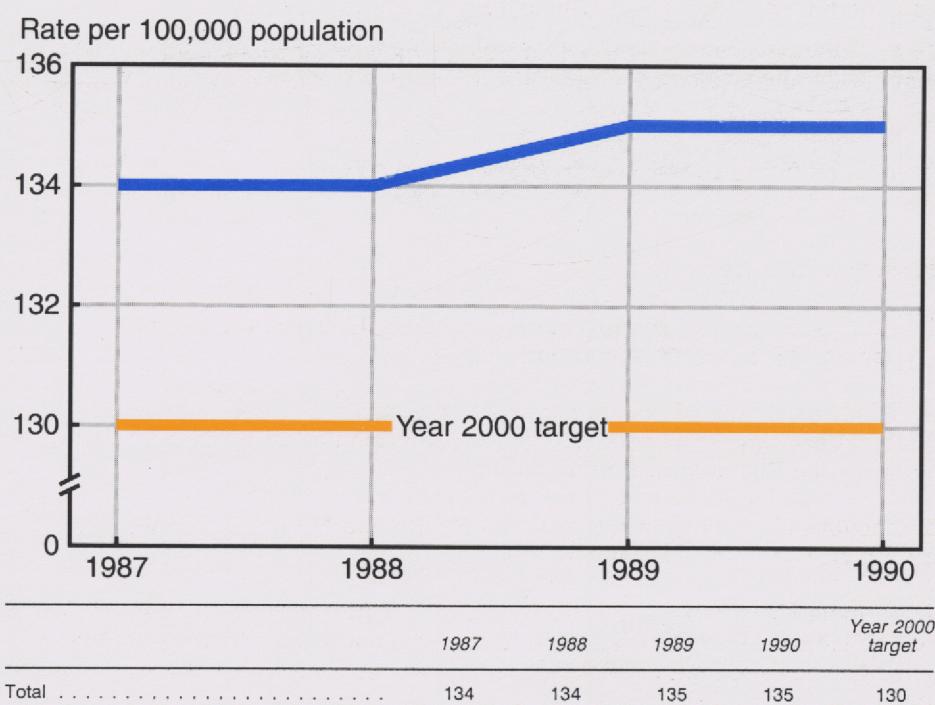
Recent data indicate that progress toward the year 2000 objectives has been made for three of the objectives (16.5, 16.6, and 16.10) in this priority area. The trends in the overall cancer death rate (16.1) and the breast cancer death rate (16.3) are moving away from the target, while lung cancer mortality (16.2) is rising at a rate, which at its current pace, would not meet the target before the year 2000. Two objectives (16.4 and 16.7) show no change from the baseline figures. Complete data were unavailable to update progress for the remaining eight objectives.

Data Issues

Age-Adjusted Death Rates

The death rates shown in objectives 16.1–16.5 have been age-adjusted to the 1940 U.S. population. (See Appendix II for more information on age-adjusted rates.) The National Cancer Institute age adjusts cancer deaths to the 1970 U.S. population. When the 1970 standard population is used, the equivalent baseline, interim, and target rates are all somewhat higher than those generated using the 1940 population.

Figure 21. Age-adjusted death rates for cancer: United States, 1987–90 and year 2000 target for objective 16.1



NOTE: Related tables in *Health, United States, 1992*, are 28–31, 37–39, and 50.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System.

Data Availability

Only partial data were available to update progress for several objectives. For objective 16.11 (the proportion of women receiving a clinical breast exam and a mammogram), the 1991 data from the National Health Interview Survey (NHIS) report mammogram only. Similarly, the 1991 data on Pap smears (16.12) are for women with a uterine cervix who have had a Pap test in the past 12 months. Data on ever receiving a Pap test and receiving a Pap test in the preceding 1–3 years were not obtained in the 1991 survey. Complete data to measure objectives 16.11 and 16.12 will be available from the 1993 NHIS.

Table 16. Cancer objective status

| | Objective | 1987 baseline | | | Target 2000 | |
|-------|--|----------------------|-------------------|----------------------|-------------------|------|
| | | Original | Revised | 1990 | 1991 | |
| 16.1 | Cancer deaths (age adjusted per 100,000) | 133 | ¹ 134 | 135 | --- | 130 |
| 16.2 | Lung cancer deaths (age adjusted per 100,000) | 37.9 | ¹ 38.5 | 39.9 | --- | 42.0 |
| 16.3 | Breast cancer deaths (age adjusted per 100,000) | 22.9 | ¹ 23.0 | 23.1 | --- | 20.6 |
| 16.4 | Cervical cancer deaths (age adjusted per 100,000) | 2.8 | change | 2.8 | --- | 1.3 |
| 16.5 | Colorectal cancer deaths (age adjusted per 100,000) | 14.4 | ¹ 14.7 | 13.8 | --- | 13.2 |
| 16.6 | Cigarette smoking prevalence | | | | | |
| | People 20 years and over | 29% | ... | 26% | 26% | 15% |
| | Males | 32% | ... | 28% | 28% | ... |
| | Females | 27% | ... | 23% | 24% | ... |
| | a. People with high school education or less | | | | | |
| | 20 years and over | 34% | ... | 31% | 32% | 20% |
| | b. Blue-collar workers 20 years and over | 36% | ... | 37% | 36% | 20% |
| | c. Military personnel | ² 42% | ... | --- | ³ 35% | 20% |
| | d. Blacks 20 years and over | 34% | ... | 27% | 30% | 18% |
| | e. Hispanics 20 years and over | ⁴ 33% | ... | 24% | 20% | 18% |
| | f. American Indians/Alaska Natives | ⁵ 42-70% | ... | 38% | 33% | 20% |
| | g. Southeast Asian males | ⁶ 55% | ... | ⁷ 35% | --- | 20% |
| | h. Females of reproductive age (18-44 years) | 29% | ... | 26% | 27% | 12% |
| | i. Pregnant females | ⁸ 25% | ... | 19% | 20% | 10% |
| | j. Females who use oral contraceptives | ⁹ 36% | ... | ² 26% | --- | 10% |
| 16.7 | Dietary fat intake among people 2 years and over | | | | | |
| | People 2 years and over | | | | | |
| | Percent of calories from total fat | --- | ... | --- | --- | 30% |
| | Percent of calories from saturated fat | --- | ... | --- | --- | 10% |
| | People 20-74 years | | | | | |
| | Percent of calories from total fat | ¹⁰ 36% | ... | ¹¹ 36% | --- | ... |
| | Percent of calories from saturated fat | ¹⁰ 13% | ... | ¹¹ 13% | --- | ... |
| | Females 19-50 years | | | | | |
| | Percent of calories from total fat | ⁸ 36% | ... | --- | --- | ... |
| | Percent of calories from saturated fat | ⁸ 13% | ... | --- | --- | ... |
| 16.8 | Daily intake of vegetables, fruits, and grain products | | | | | |
| | Adults (number of servings) | | | | | |
| | Vegetables and fruits | --- | ... | --- | --- | 5 |
| | Grain products | --- | ... | --- | --- | 6 |
| | Women aged 19-50 (number of servings) | | | | | |
| | Vegetables and fruits | ⁸ 2.5 | ... | --- | --- | ... |
| | Grain products | ⁸ 3.0 | ... | --- | --- | ... |
| 16.9 | Actions to reduce sun exposure | --- | ... | --- | --- | 60% |
| 16.10 | Tobacco, diet, and cancer screening and counseling by clinicians | ^{12,13} 52% | ... | ^{11,13} 96% | --- | 75% |
| 16.11 | Breast examination and mammogram | | | | | |
| | Females 40 years and over (ever received) | 36% | ... | 60% | --- | 80% |
| | Females 50 years and over (preceding 1-2 years) | 25% | ... | 47% | ¹⁴ 54% | 60% |
| | Ever received | | | | | |
| | a. Hispanic females 40 years and over | 20% | ... | 52% | --- | 80% |
| | b. Low-income females 40 years and over (annual family income less than \$10,000) | 22% | ... | 41% | --- | 80% |
| | c. Females 40 years and over with less than high school education | 23% | ... | 45% | --- | 80% |
| | d. Females 70 years and over | 25% | ... | 48% | --- | 80% |
| | e. Black females 40 years and over | 28% | ... | 53% | --- | 80% |
| | Received within preceding 2 years | | | | | |
| | a. Hispanic females 50 years and over | 18% | ... | 42% | ¹⁴ 54% | 60% |
| | b. Low-income females 50 years and over (annual family income less than \$10,000) | 15% | ... | 31% | ¹⁴ 39% | 60% |
| | c. Females 50 years and over with less than high school education | 16% | ... | 34% | ¹⁴ 40% | 60% |
| | d. Females 70 years and over | 18% | ... | 37% | ¹⁴ 45% | 60% |
| | e. Black females 50 years and over | 19% | ... | 42% | ¹⁴ 48% | 60% |
| 16.12 | Pap test | | | | | |
| | Ever received | 88% | ... | --- | --- | 95% |
| | Received within preceding 3 years | 75% | ... | --- | ¹⁵ 59% | 85% |

Table 16. Cancer objective status—Con.

| Objective | 1987 baseline | | | | Target 2000 |
|--|--------------------------|---------|------|-------------------|----------------|
| | Original | Revised | 1990 | 1991 | |
| Ever received | | | | | |
| a. Hispanic females 18 years and over..... | 75% | ... | --- | --- | 95% |
| b. Females 70 years and over..... | 76% | ... | --- | --- | 95% |
| c. Females 18 years and over with less than high school education | 79% | ... | --- | --- | 95% |
| d. Low-income females 18 years and over (annual family income less than \$10,000) | 80% | ... | --- | --- | 95% |
| Received within preceding 3 years | | | | | |
| a. Hispanic females 18 years and over..... | 66% | ... | --- | ¹⁵ 58% | 80% |
| b. Females 70 years and over..... | 44% | ... | --- | ¹⁵ 33% | 70% |
| c. Females 18 years and over with less than high school education | 58% | ... | --- | ¹⁵ 45% | 75% |
| d. Low-income females 18 years and over (annual family income less than \$10,000) | 64% | ... | --- | ¹⁵ 50% | 80% |
| 16.13 Fecal occult blood test and proctosigmoidoscopy | | | | | |
| Received fecal occult blood testing within preceding 2 years | 27% | ... | --- | --- | 50% |
| Ever received proctosigmoidoscopy | 25% | ... | --- | --- | 40% |
| People 65 years and over with routine checkup in past 2 years who had a fecal blood test..... | ... | ... | --- | 36% | ... |
| 16.14 Oral, skin, and digital rectal examinations | | | | | |
| People 50 years and over (during past year) | 27% | ... | --- | --- | 40% |
| 16.15 Pap test quality | | | | | |
| Monitoring cytology laboratory | --- | ... | --- | --- | 100% |
| 16.16 Mammogram facilities certified by American College of Radiology.. | ¹⁶ 18– 21% | ... | --- | --- | 80% |

¹Data have been recomputed to reflect revised intercensal population estimates; see *Health, United States, 1992*, Appendix I.

²1988 data.

³1992 data.

⁴1982–84 data.

⁵1979–87 data.

⁶1984–88 data.

⁷Vietnamese males only.

⁸1985 data.

⁹1983 data.

¹⁰1976–80 data.

¹¹1989 data.

¹²1985–86 data.

¹³Data reflect tobacco screening and counseling only.

¹⁴Mammogram only.

¹⁵Females with uterine cervix who had a Pap test in past 12 months.

¹⁶1990 data.

NOTE: Data sources are in table C.

Cancer Objectives

16.1*: Reverse the rise in cancer deaths to achieve a rate of no more than 130 per 100,000 people.

NOTE: In its publications the National Cancer Institute age adjusts cancer death rates to the 1970 U.S. population. Using the 1970 standard, the equivalent target value for this objective would be 175 per 100,000.

Duplicate objective: 2.2

16.2*: Slow the rise in lung cancer deaths to achieve a rate of no more than 42 per 100,000 people.

NOTE: In its publications the National Cancer Institute age adjusts cancer death rates to the 1970 U.S. population. Using the 1970 standard, the equivalent target value for this objective would be 53 per 100,000.

Duplicate objective: 3.2

16.3: Reduce breast cancer deaths to no more than 20.6 per 100,000 women.

NOTE: In its publications the National Cancer Institute age adjusts cancer death rates to the 1970 U.S. population. Using the 1970 standard, the equivalent target value for this objective would be 25.2 per 100,000.

16.4: Reduce deaths from cancer of the uterine cervix to no more than 1.3 per 100,000 women.

NOTE: In its publications the National Cancer Institute age adjusts cancer death rates to the 1970 U.S. population. Using the 1970 standard, the equivalent target value for this objective would be 1.5 per 100,000.

16.5: Reduce colorectal cancer deaths to no more than 13.2 per 100,000 people.

NOTE: In its publications the National Cancer Institute age adjusts cancer death rates to the 1970 U.S. population. Using the 1970 standard, the equivalent target value for this objective would be 18.7 per 100,000.

16.6*: Reduce cigarette smoking to a prevalence of no more than 15 percent among people aged 20 and older.

NOTE: A cigarette smoker is a person who has smoked at least 100 cigarettes and currently smokes cigarettes.

Duplicate objectives: 3.4 and 15.12

16.6a*: Reduce cigarette smoking to a prevalence of no more than 20 percent among people aged 20 and older with a high school education or less.

Duplicate objectives: 3.4a and 15.12a

16.6b*: Reduce cigarette smoking to a prevalence of no more than 20 percent among blue-collar workers aged 20 and older.

Duplicate objectives: 3.4b and 15.12b

16.6c*: Reduce cigarette smoking to a prevalence of no more than 20 percent among military personnel.

Duplicate objectives: 3.4c and 15.12c

16.6d*: Reduce cigarette smoking to a prevalence of no more than 18 percent among blacks aged 20 and older.

Duplicate objectives: 3.4d and 15.12d

16.6e*: Reduce cigarette smoking to a prevalence of no more than 18 percent among Hispanics aged 20 and older.

Duplicate objectives: 3.4e and 15.12e

16.6f*: Reduce cigarette smoking to a prevalence of no more than 20 percent among American Indians and Alaska Natives.

Duplicate objectives: 3.4f and 15.12f

16.6g*: Reduce cigarette smoking to a prevalence of no more than 20 percent among Southeast Asian men.

Duplicate objectives: 3.4g and 15.12g

16.6h*: Reduce cigarette smoking to a prevalence of no more than 12 percent among women of reproductive age.

Duplicate objectives: 3.4h and 15.12h

16.6i*: Reduce cigarette smoking to a prevalence of no more than 10 percent among pregnant women.

Duplicate objectives: 3.4i and 15.12i

16.6j*: Reduce cigarette smoking to a prevalence of no more than 10 percent among women who use oral contraceptives.

Duplicate objectives: 3.4j and 15.12j

16.7*: Reduce dietary fat intake to an average of 30 percent of calories or less and average saturated fat intake to less than 10 percent of calories among people aged 2 and older.

NOTE: The inclusion of a saturated fat target in this objective should not be interpreted as evidence that reducing only saturated fat will reduce cancer risk. Epidemiologic and experimental animal studies suggest that the amount of fat consumed rather than the specific type of fat can influence the risk of some cancers.

Duplicate objectives: 2.5 and 15.9

16.8*: Increase complex carbohydrate and fiber-containing foods in the diets of adults to five or more daily servings for vegetables (including legumes) and fruits, and to six or more daily servings for grain products.

Duplicate objective: 2.6

16.9: Increase to at least 60 percent the proportion of people of all ages who limit sun exposure, use sunscreens and protective clothing when exposed to sunlight, and avoid artificial sources of ultraviolet light (e.g. sun lamps, tanning booths).

16.10: Increase to at least 75 percent the proportion of primary care providers who routinely counsel patients about tobacco use cessation, diet modification, and cancer screening recommendations.

16.11: Increase to at least 80 percent the proportion of women aged 40 and older who have ever received a clinical breast examination and a mammogram, and to at least 60 percent those aged 50 and older who have received them within the preceding 1 to 2 years.

16.11a: Increase to at least 80 percent the proportion of Hispanic women aged 40 and older who have ever received a clinical breast examination and a mammogram, and to at least 60 percent those aged 50 and older who have received them within the preceding 1 to 2 years.

16.11b: Increase to at least 80 percent the proportion of low-income (annual family income less than \$10,000) women aged 40 and older who have ever received a clinical breast examination and a mammogram, and to at least 60 percent those aged 50 and older who have received them within the preceding 1 to 2 years.

16.11c: Increase to at least 80 percent the proportion of women with less than a high school education aged 40 and older who have ever received a clinical breast examination and a mammogram, and to at least 60 percent

those aged 50 and older who have received them within the preceding 1 to 2 years.

16.11d: Increase to at least 80 percent the proportion of women aged 70 and older who have ever received a clinical breast examination and a mammogram, and to at least 60 percent those who have received them within the preceding 1 to 2 years.

16.11e: Increase to at least 80 percent the proportion of black women aged 40 and older who have ever received a clinical breast examination and a mammogram, and to at least 60 percent those aged 50 and older who have received them within the preceding 1 to 2 years.

16.12: Increase to at least 95 percent the proportion of women aged 18 and older with uterine cervix who have ever received a Pap test, and to at least 85 percent those who received a Pap test within the preceding 1 to 3 years.

16.12a: Increase to at least 95 percent the proportion of Hispanic women aged 18 and older with uterine cervix who have ever received a Pap test, and to at least 80 percent those who received a Pap test within the preceding 1 to 3 years.

16.12b: Increase to at least 95 percent the proportion of women aged 70 and older with uterine cervix who have ever received a Pap test, and to at least 70 percent those who received a Pap test within the preceding 1 to 3 years.

16.12c: Increase to at least 95 percent the proportion of women aged 18 and older with less than a high school education with uterine cervix who have ever received a Pap test, and to at least 75 percent those who received a Pap test within the preceding 1 to 3 years.

16.12d: Increase to at least 95 percent the proportion of low-income women (annual family income less than \$10,000) aged 18 and older with uterine cervix who have ever received a Pap test, and to at least 80 percent those who received a Pap test within the preceding 1 to 3 years.

16.13: Increase to at least 50 percent the proportion of people aged 50 and older who have received fecal occult blood testing within the preceding 1 to 2 years, and to at least 40 percent those who have ever received proctosigmoidoscopy.

16.14: Increase to at least 40 percent the proportion of people aged 50 and older visiting a primary care provider in the preceding year who have received oral, skin, and digital rectal examinations during one such visit.

16.15: Ensure that Pap tests meet quality standards by monitoring and certifying all cytology laboratories.

16.16: Ensure that mammograms meet quality standards by monitoring and certifying at least 80 percent of mammography facilities.

*Duplicate objective.

References

1. National Center for Health Statistics. Advance report of final mortality statistics, 1990. Monthly vital statistics report; vol 41 no 7, suppl. Hyattsville, Maryland: Public Health Service. 1993.
2. National Cancer Institute. Cancer control objectives for the nation: 1985-2000. Bethesda, Maryland: National Cancer Institute Monographs. 2(1986). 1986.

Priority Area 17

Diabetes and Chronic Disabling Conditions

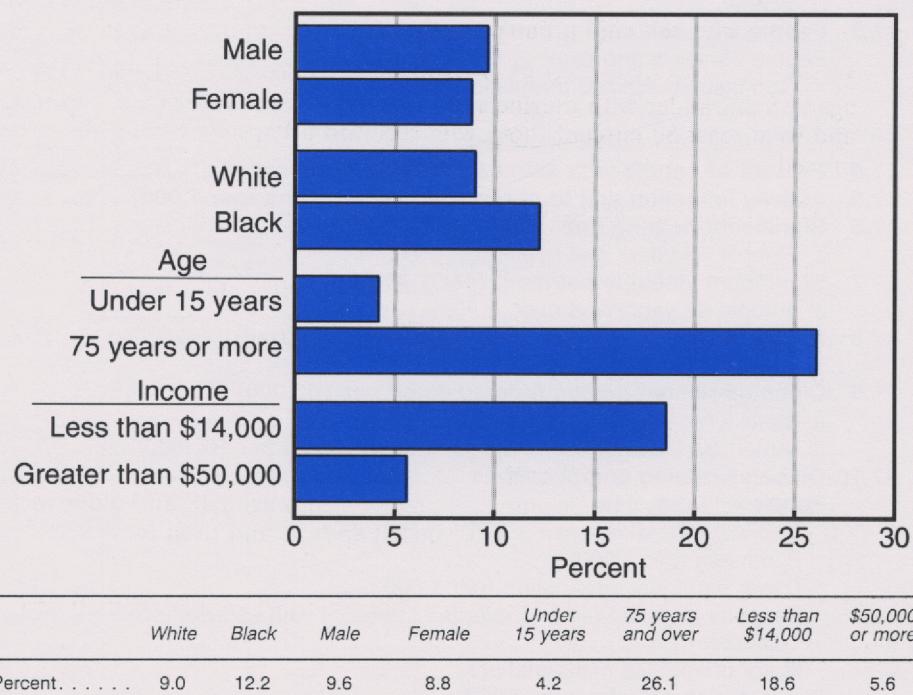
Background and Data Summary

As the population of the United States grows older, the problems posed by chronic and disabling conditions increasingly demand the Nation's attention. Chronic conditions such as heart disease, cancer, stroke, and lung and liver disease are joined in importance by other chronic and disabling conditions, such as diabetes, arthritis, deformities or orthopedic impairments, hearing and visual impairments, and mental retardation.

Disability, defined by a limitation of the ability to perform major activities caused by chronic conditions, affected about 10 percent of Americans in 1991 (1). Over 30 million people have functional limitations that interfere with their daily activities, and about 10 million have limitations that prevent them from working, attending school, or maintaining a household. The underlying impairments most often responsible for these conditions are arthritis, heart disease, back conditions, lower extremity impairments, and intervertebral disk disorders (2). For those under age 18 years the most frequent causes of activity limitation are asthma, mental retardation, mental illness, and hearing and speech impairments.

Five objectives (17.7, 17.11, 17.13, 17.14, and 17.19) are moving toward the year 2000 targets. Six (17.2, 17.4, 17.5, 17.6, 17.10, 17.12) are moving away from the targets. People with self-care problems (17.3) showed no change for the total noninstitutionalized population. Diabetes-related mortality (17.9) also showed no change for the total population, although the black and American Indian subobjectives are moving away from the targets. As with a number of other Healthy People 2000 priority areas, missing data is a problem: for the remaining seven objectives, four have no baseline and three have no data beyond the baseline.

Figure 22. Limitation of major activity caused by chronic conditions, according to selected characteristics targeted by year 2000 objective 17.2: United States, 1991



NOTE: A related table in *Health, United States, 1992*, is 61.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health Interview Survey.

Objective 17.19 calls for the voluntary establishment of policies or programs for the hiring of people with disabilities. Since this objective was created, Congress has passed the Americans with Disabilities Act of 1990 that prohibits all employers from discriminating against "a qualified disabled individual because of the disability in regard to job application procedures, hiring, advancement... (3)." As a result, this objective has been achieved via legislation.

Data Issues

Years of Healthy Life

Years of Healthy Life (17.1) is discussed in the introduction.

Data Availability

The 1984-85 baseline figures for 17.3 were derived by combining estimates for the noninstitutionalized population from the National Health Interview Survey with data for the nursing home population from the National Nursing Home Survey. At the present time, only data for the noninstitutionalized population are available to update progress.

Proxy Measures

See priority area 1 (Physical Activity and Fitness) for a discussion of self-reported height and weight (17.12), as well as light to moderate physical activity (17.13).

Table 17. Diabetes and chronic disabling conditions objective status

| Objective | 1987 baseline | | | | Target 2000 |
|--|-----------------------|-----------------------------------|--------------------|--------------------|----------------|
| | Original | Revised | 1990 | 1991 | |
| 17.1 Years of healthy life | 1 ^{62.0} | 2, ³ 64.0 No change | --- | --- | 65 |
| a. Blacks..... | 1 ^{56.0} | change | --- | --- | 60 |
| b. Hispanics | 1 ^{62.0} | 2, ^{3,4} 64.8 | --- | --- | 65 |
| c. People 65 years and over ⁵ | 1 ^{12.0} | 2, ³ 11.9 | --- | --- | 14 |
| 17.2 Limitation in activity due to chronic conditions..... | 9.4% | ... | 9.3% | 9.6% | 8% |
| a. Low-income people (annual family income less than \$10,000) | 18.9% | ... | 19.2% | 19.6% | 15% |
| b. American Indians/Alaska Natives..... | 6 ^{13.4%} | ... | 7 ^{12.3%} | 8 ^{12.0%} | 11% |
| c. Blacks..... | 11.2% | ... | 10.7% | 11.0% | 9% |
| 17.3 People with self care problems (per 1,000) | | | | | |
| People 65 years and over..... | 9 ¹¹¹ | ... | --- | --- | 90 |
| Non-institutionalized population..... | 10 ⁷⁷ | ... | 11 ⁷⁷ | --- | ... |
| a. People 85 years and over | 9 ³⁷¹ | ... | --- | --- | 325 |
| Non-institutionalized population..... | 10 ²²³ | ... | 11 ²⁰⁴ | --- | ... |
| 17.4 Percent of people with asthma with activity limitation..... | 1 ² 19.4% | ... | 7 ^{20.4%} | 8 ^{21.8%} | 10% |
| 17.5 Activity limitation due to chronic back conditions (per 1,000) | 1 ² 21.9 | ... | 7 ^{23.7} | 8 ^{25.1} | 19.0 |
| 17.6 Significant hearing impairment (per 1,000) | 1 ² 88.9 | ... | 7 ^{89.5} | 8 ^{89.7} | 82.0 |
| a. People 45 years and over | 1 ² 203 | ... | 7 ²⁰⁶ | 8 ²⁰⁶ | 180 |
| 17.7 Significant visual impairment (per 1,000)..... | 1 ² 34.5 | ... | 7 ^{32.5} | 8 ^{31.7} | 30.0 |
| a. People 65 years and over | 1 ² 87.7 | ... | 7 ^{81.8} | 8 ^{78.0} | 70.0 |
| 17.8 Mental retardation (per 1,000 school aged children) | 1 ³ 2.7 | ... | --- | --- | 2.0 |
| | | 11, ¹⁴ No | | | |
| 17.9 Diabetes-related deaths (age adjusted per 100,000) | 1 ¹ 38 | change | 38 | --- | 34 |
| a. Blacks (age adjusted per 100,000) | 1 ¹ 65 | 11, ¹⁴ 67 | 71 | --- | 58 |
| b. American Indians/Alaska Natives (age adjusted per 100,000)..... | 1 ¹ 54 | 11, ¹⁴ 46 | 53 | --- | 48 |
| 17.10 Diabetes-related complications | | | | | |
| People with diabetes | | | | | |
| End-stage renal disease (ESRD) (per 1,000)..... | 1 ⁵ 1.5 | ... | 1 ⁶ 2.0 | --- | 1.4 |
| Blindness (per 1,000) | 2.2 | ... | 2.5 | --- | 1.4 |
| Lower extremity amputation (per 1,000)..... | 1 ⁵ 8.2 | ... | 8.3 | --- | 4.9 |
| Perinatal mortality (among infants of females with established diabetes) | 5% | ... | --- | --- | 2% |
| Major congenital malformations | 8% | ... | --- | --- | 4% |
| ESRD due to diabetes (per 1,000) | | | | | |
| a. Blacks with diabetes | 1 ⁷ 2.2 | ... | 1 ⁶ 3.1 | --- | 2.0 |
| b. American Indians/Alaska Natives with diabetes | 1 ⁷ 2.1 | ... | 1 ² 2.2 | --- | 1.9 |
| Lower extremity amputations due to diabetes | | | | | |
| c. Blacks with diabetes (per 1,000)..... | 1 ⁸ 10.2 | 1 ⁵ 8.8 | 8.2 | --- | 6.1 |
| 17.11 Diabetes incidence and prevalence | | | | | |
| Total population (per 1,000) | | | | | |
| Incidence of diabetes | 1 ² 2.9 | 2, ¹² No change | 7 ^{2.6} | --- | 2.5 |
| Prevalence of diabetes | 1 ² 28 | 2, ¹² No change | 7 ²⁶ | --- | 25 |
| Special populations-prevalence of diabetes (per 1,000) | | | | | |
| a. American Indians/Alaska Natives..... | 1 ⁵ 69 | ... | 67 | 63 | 62 |
| b. Puerto Ricans..... | 1 ⁹ 55 | ... | --- | --- | 49 |
| c. Mexican Americans | 1 ⁹ 54 | ... | --- | --- | 49 |
| d. Cuban Americans | 1 ⁹ 36 | ... | --- | --- | 32 |
| e. Blacks..... | 1 ² 36 | ... | 735 | --- | 32 |
| 17.12 Overweight prevalence | | | | | |
| People 20 years and over..... | 2 ⁰ 26% | ... | 27% | 28% | 20% |
| Males | 2 ⁰ 24% | ... | 27% | 28% | ... |
| Females | 2 ⁰ 27% | ... | 27% | 28% | ... |
| Adolescents 12–19 years | 2 ⁰ 15% | ... | --- | --- | 15% |
| a. Low-income females 20 years and over | 2 ⁰ 37% | ... | 37% | 39% | 25% |
| b. Black females 20 years and over | 2 ⁰ 44% | ... | 42% | 44% | 30% |
| c. Hispanic females 20 years and over | ... | 2 ¹ 27% | 33% | 32% | 25% |
| Mexican-American females | 1 ⁹ 39% | ... | --- | 38% | ... |
| Cuban females..... | 1 ⁹ 34% | ... | --- | --- | ... |
| Puerto Rican females..... | 1 ⁹ 37% | ... | --- | --- | ... |
| d. American Indians/Alaska Natives..... | 2 ² 29–75% | ... | --- | 40% | 30% |

Table 17. Diabetes and chronic disabling conditions objective status

| Objective | 1987 baseline | | | | Target 2000 |
|--|--------------------|----------|---------|--------|----------------|
| | Original | Revised | 1990 | 1991 | |
| e. People with disabilities | 1036% | ... | --- | 38% | 25% |
| f. Females with high blood pressure | 2050% | ... | --- | --- | 41% |
| g. Males with high blood pressure | 2039% | ... | --- | --- | 35% |
| 17.13 Moderate physical activity | | | | | |
| People 6 years and over | --- | ... | --- | --- | 30% |
| People 18–74 years | | | | | |
| 5 or more times per week | 2122% | change | 23% | 24% | ... |
| 7 or more times per week | 2112% | 21,2316% | 16% | 17% | ... |
| 17.14 Patient education for people with chronic and disabling conditions | --- | ... | --- | --- | 40% |
| | 2432% | | | | |
| a. People with diabetes | (classes) 2468% | | 1633.1% | 39% | 75% |
| | (coun- seling) | | | | |
| b. People with asthma | --- | ... | --- | 9% | 50% |
| 17.15 Clinician assessment of childhood development | --- | ... | --- | --- | 80% |
| 17.16 Earlier detection of significant hearing impairment in children (average age in months) | 24–30 | ... | --- | 27 | 12 |
| 17.17 Clinician assessment of cognitive and other functioning in older adults | --- | ... | --- | --- | 60% |
| 17.18 Providers who counsel about estrogen replacement therapy | --- | ... | --- | --- | 90% |
| 17.19 Employment of people with disabilities | | | | | |
| Percent of worksites with voluntary policy | 1137% | | 25100% | 25100% | 75% |
| 17.20 Service systems for children with or at risk of chronic and disabling conditions (number of States) | --- | ... | --- | --- | 50 |

¹1980 data.²Data have been revised to reflect updated methodology; see Introduction.³1990 data.⁴Estimate based on preliminary data.⁵Years of healthy life remaining at age 65.⁶1983–85 data.⁷1988–90 data.⁸1989–91 data.⁹1984–85 data.¹⁰1984 data.¹¹1986 data.¹²1986–88 data.¹³1985–88 data.¹⁴Data have been recomputed to reflect revised intercensal population estimates; see *Health, United States, 1992*, Appendix I.¹⁵1987 data.¹⁶1989 data.¹⁷1983–86 data.¹⁸1984–87 data.¹⁹1982–84 data.²⁰1976–80 data.²¹1985 data.²²1984–88 data.²³Data source has been changed and data have been revised to reflect updated methodology; see Introduction.²⁴1983–84 data.²⁵Achieved through passage of the Americans with Disabilities Act of 1990.

NOTE: Data sources are in table C.

Diabetes and Chronic Disabling Conditions Objectives

17.1*: Increase years of healthy life to at least 65 years.

NOTE: Years of healthy life is a summary measure of health that combines mortality (quantity of life) and morbidity and disability (quality of life) into a single measure. For people aged 65 and older, active life-expectancy, a related summary measure, also will be tracked.

Duplicate objectives: 8.1 and 21.1

17.1a*: Increase years of healthy life among blacks to at least 60 years.

Duplicate objectives: 8.1a and 21.1a

17.1b*: Increase years of healthy life among Hispanics to at least 65 years.

Duplicate objectives: 8.1b and 21.1b

17.1c*: Increase years of healthy life among people aged 65 and older to at least 14 more years of healthy life.

Duplicate objectives: 8.1c and 21.1c

17.2: Reduce to no more than 8 percent the proportion of people who experience a limitation in major activity due to chronic conditions.

NOTE: Major activity refers to the usual activity for one's age-sex group whether it is working, keeping house, going to school, or living independently. Chronic conditions are defined as conditions that either (1) were first noticed 3 or more months ago, or (2) belong to a group of conditions such as heart disease and diabetes, which are considered chronic regardless of when they began.

17.2a: Reduce to no more than 15 percent the proportion of low-income people (annual family income of less than \$10,000 in 1988) who experience a limitation in major activity due to chronic conditions.

17.2b: Reduce to no more than 11 percent the proportion of American Indians and Alaska Natives who experience a limitation in major activity due to chronic conditions.

17.2c: Reduce to no more than 9 percent the proportion of blacks who experience a limitation in major activity due to chronic conditions.

17.3: Reduce to no more than 90 per 1,000 people the proportion of all people aged 65 and older who have difficulty in performing two or more personal care activities, thereby preserving independence.

NOTE: Personal care activities are bathing, dressing, using the toilet, getting in and out of bed or chair, and eating.

Duplicate objective: Age-related objective for people aged 65 and older

17.3a: Reduce to no more than 300 per 1,000 people the proportion of all people aged 85 and older who have difficulty in performing two or more personal care activities, thereby preserving independence.

Duplicate objective: Age-related objective for people aged 65 and older

17.4: Reduce to no more than 10 percent the proportion of people with asthma who experience activity limitation.

NOTE: Activity limitation refers to any self-reported limitation in activity attributed to asthma.

17.5: Reduce activity limitation due to chronic back conditions to a prevalence of no more than 19 per 1,000 people.

NOTE: Chronic back conditions include intervertebral disk disorders, curvature of the back or spine, and other self-reported chronic back impairments such as

permanent stiffness or deformity of the back or repeated trouble with the back. Activity limitation refers to any self-reported limitation in activity attributed to a chronic back condition.

17.6: Reduce significant hearing impairment to a prevalence of no more than 82 per 1,000 people.

NOTE: Hearing impairment covers the range of hearing deficits from mild loss in one ear to profound loss in both ears. Generally, inability to hear sounds at levels softer (less intense) than 20 decibels (dB) constitutes abnormal hearing. Significant hearing impairment is defined as having hearing thresholds for speech poorer than 25 dB. However, for this objective, self-reported hearing impairment (that is, deafness in one or both ears or any trouble hearing in one or both ears) will be used as a proxy measure for significant hearing impairment.

17.6a: Reduce significant hearing impairment among people aged 45 and older to a prevalence of no more than 180 per 1,000.

17.7: Reduce significant visual impairment to a prevalence of no more than 30 per 1,000 people.

NOTE: Significant visual impairment is generally defined as a permanent reduction in visual acuity and/or field of vision that is not correctable with eyeglasses or contact lenses. Severe visual impairment is defined as inability to read ordinary news print even with corrective lenses. For this objective, self-reported blindness in one or both eyes and other self-reported visual impairments (that is, any trouble seeing with one or both eyes even when wearing glasses or color blindness) will be used as a proxy measure for significant visual impairment.

17.7a: Reduce significant visual impairment among people aged 65 and older to a prevalence of no more than 70 per 1,000.

17.8*: Reduce the prevalence of serious mental retardation in school-aged children to no more than 2 per 1,000 children.

NOTE: Serious mental retardation is defined as an Intelligence Quotient (I.Q.) less than 50. This includes individuals defined by the American Association of Mental Retardation as profoundly retarded (I.Q. of 20 or less), severely retarded (I.Q. of 21–35), and moderately retarded (I.Q. of 36–50).

Duplicate objective: 11.2

17.9: Reduce diabetes-related deaths to no more than 34 per 100,000.

17.9a: Reduce diabetes-related deaths among blacks to no more than 58 per 100,000.

17.9b: Reduce diabetes-related deaths among American Indians and Alaska Natives to no more than 48 per 100,000.

17.10: Reduce the most severe complications of diabetes as follows:

| Complications among people with diabetes: | 2000 target |
|--|---------------|
| End-stage renal disease | 1.4 per 1,000 |
| Blindness | 1.4 per 1,000 |
| Lower extremity amputation | 4.9 per 1,000 |
| Perinatal mortality ¹ | 2 percent |
| Major congenital malformation | 4 percent |

¹Among infants of women with established diabetes

NOTE: End-stage renal disease (ESRD) is defined as requiring dialysis or transplantation and is limited to ESRD due to diabetes. Blindness refers to blindness due to diabetic eye disease.

17.10a: Reduce end-stage renal disease due to diabetes among black persons with diabetes to no more than 2 per 1,000.

17.10b: Reduce end-stage renal disease due to diabetes among American Indians and Alaska Natives with diabetes to no more than 1.9 per 1,000.

17.10c: Reduce lower extremity amputations due to diabetes among blacks with diabetes to no more than 6.1 per 1,000.

17.11: Reduce diabetes to an incidence of no more than 2.5 per 1,000 people and a prevalence of no more than 25 per 1,000 people.

17.11a: Reduce diabetes among American Indians and Alaska Natives to a prevalence of no more than 62 per 1,000.

17.11b: Reduce diabetes among Puerto Ricans to a prevalence of no more than 49 per 1,000.

17.11c: Reduce diabetes among Mexican Americans to a prevalence of no more than 49 per 1,000.

17.11d: Reduce diabetes among Cuban Americans to a prevalence of no more than 32 per 1,000.

17.11e: Reduce diabetes among blacks to a prevalence of no more than 32 per 1,000.

17.12*: Reduce overweight to a prevalence of no more than 20 percent among people aged 20 and older and no more than 15 percent among adolescents aged 12–19.

NOTE: For people aged 20 and older, overweight is defined as body mass index (BMI) equal to or greater than 27.8 for men and 27.3 for women. For adolescents, overweight is defined as BMI equal to or greater than 23.0 for males aged 12–14, 24.3 for males aged 15–17, 25.8 for males aged 18–19, 23.4 for females aged 12–14, 24.8 for females aged 15–17, and 25.7 for females aged 18–19. The values for adolescents are the age- and gender-specific 85th percentile values of the 1976–80 National Health and Nutrition Examination Survey (NHANES II), corrected for sample variation. BMI is calculated by dividing weight in kilograms by the square of height in meters. The cut points used to define overweight approximate the 120 percent of desirable body weight definition used in the 1990 objectives.

Duplicate objectives: 1.2, 2.3, and 15.10

17.12a*: Reduce overweight to a prevalence of no more than 25 percent among low-income women aged 20 and older.

Duplicate objectives: 1.2a, 2.3a, and 15.10a

17.12b*: Reduce overweight to a prevalence of no more than 30 percent among black women aged 20 and older.

Duplicate objectives: 1.2b, 2.3b, and 15.10b

17.12c*: Reduce overweight to a prevalence of no more than 25 percent among Hispanic women aged 20 and older.

Duplicate objectives: 1.2c, 2.3c, and 15.10c

17.12d*: Reduce overweight to a prevalence of no more than 30 percent among American Indians and Alaska Natives.

Duplicate objectives: 1.2d, 2.3d, and 15.10d

17.12e*: Reduce overweight to a prevalence of no more than 25 percent among people with disabilities.

Duplicate objectives: 1.2e, 2.3e, and 15.10e

17.12f*: Reduce overweight to a prevalence of no more than 41 percent among women with high blood pressure aged 20 and older.

Duplicate objectives: 1.2f, 2.3f, and 15.10f

17.12g*: Reduce overweight to a prevalence of no more than 35 percent among men with high blood pressure aged 20 and older.

Duplicate objectives: 1.2g, 2.3g, and 15.10g

17.13*: Increase to at least 30 percent the proportion of people aged 6 and older who engage regularly, preferably daily, in light to moderate physical activity for at least 30 minutes per day.

NOTE: Light to moderate physical activity requires sustained, rhythmic muscular movements, is at least equivalent to sustained walking, and is performed at less than 60 percent of maximum heart rate. Maximum heart rate equals roughly 220 beats per minute minus age. Examples may include walking, swimming, cycling, dancing, gardening and yardwork, various domestic and occupational activities, and games and other childhood pursuits.

Duplicate objectives: 1.3 and 15.11

17.14: Increase to at least 40 percent the proportion of people with chronic and disabling conditions who receive formal patient education including information about community and self-help resources as an integral part of the management of their condition.

17.14a: Increase to at least 75 percent the proportion of people with diabetes who receive formal patient education including information about community and self-help resources as an integral part of the management of their condition.

17.14b: Increase to at least 50 percent the proportion of people with asthma who receive formal patient education including information about community and self-help resources as an integral part of the management of their condition.

17.15: Increase to at least 80 percent the proportion of providers of primary care for children who routinely refer or screen infants and children for impairments of vision, hearing, speech and language, and assess other developmental milestones as part of well-child care.

17.16: Reduce the average age at which children with significant hearing impairment are identified to no more than 12 months.

17.17: Increase to at least 60 percent the proportion of providers of primary care for older adults who routinely evaluate people aged 65 and older for urinary incontinence and impairments of vision, hearing, cognition, and functional status.

17.18: Increase to at least 90 percent the proportion of perimenopausal women who have been counseled about the benefits and risks of estrogen replacement therapy (combined with progestin, when appropriate) for prevention of osteoporosis.

17.19: Increase to at least 75 percent the proportion of worksites with 50 or more employees that have a voluntarily established policy or program for the hiring of people with disabilities.

NOTE: Voluntarily established policies and programs for the hiring of people with disabilities are encouraged for worksites of all sizes. This objective is limited to worksites with 50 or more employees for tracking purposes.

17.20: Increase to 50 the number of States that have service systems for children with or at risk of chronic and disabling conditions, as required by Public Law 101-239.

NOTE: Children with or at risk of chronic and disabling conditions, often referred to as children with special health care needs, include children with psychosocial as well as physical problems. This population encompasses children with a wide variety of actual or potential disabling conditions, including children with or at risk for cerebral palsy, mental retardation, sensory deprivation, developmental disabilities, spina bifida, hemophilia, other genetic disorders, and health-related educational and behavioral problems. Service systems for such children are organized networks of comprehensive, community-based, coordinated, and family-centered services.

*Duplicate objective.

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2. LaPlante MP. Data on disability from the National Health Interview Survey, 1983–85. An Info Use Report. Washington: National Institute on Disability and Rehabilitation Research. 1988.
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Priority Area 18

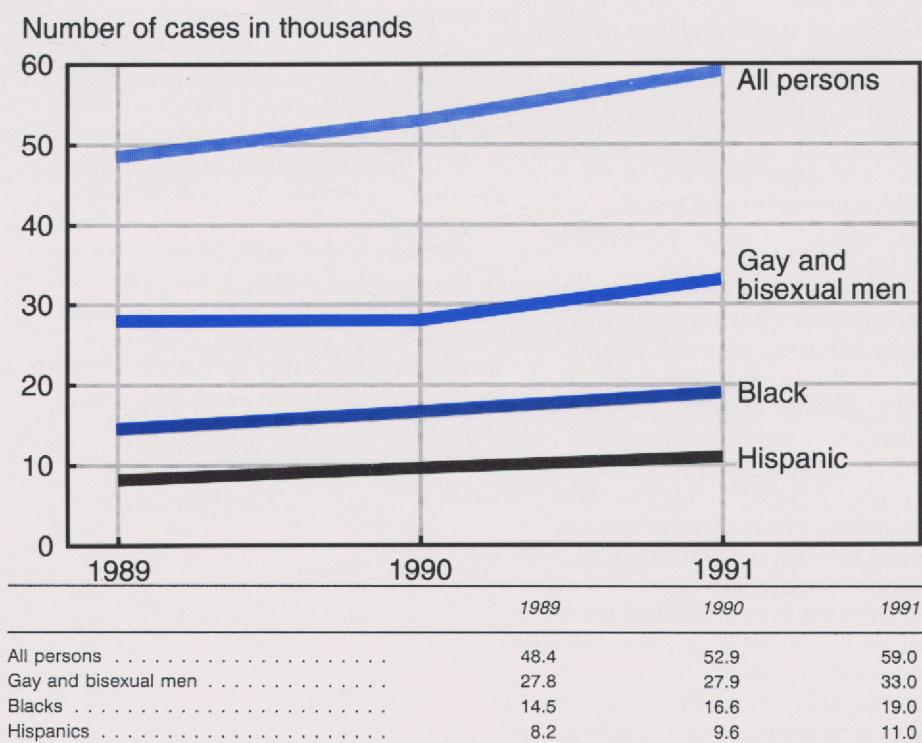
HIV Infection

Background and Data Summary

An estimated 1 million people in the United States are infected with the human immunodeficiency virus (HIV) (1). By the end of 1993, a projected total of 390,000 to 480,000 cases of AIDS will have been reported (1). This projection is based on the case definition used prior to the latest revision in January 1993. Although antimicrobial treatment extends survival, no treatment is yet available to prevent death among people with acquired immunodeficiency syndrome (AIDS). HIV and AIDS are a growing threat to the health of the nation and will continue to make major demands on health and social services systems for decades.

Data beyond baseline are available for 5 of the 14 objectives in this priority area. The first two objectives (18.1 and 18.2) aim to slow the rise in the number of AIDS cases and the prevalence of HIV infection. In 1991 the number of new AIDS cases reported was about 10 percent higher than the 1989 baseline figure (18.1). This pattern was similar for special population subgroups. At the current rate of increase, the number of cases for the total and special populations will exceed the year 2000 targets. The prevalence of HIV infection among the total population is still estimated at 400 per 100,000 people, showing no change from the baseline in 1989 (18.2). National data are not available regarding seroprevalence among men who have sex with men or among intravenous drug users. Data from the 1990 Youth Risk Behavior Survey on the history of sexual intercourse among adolescents show a worsening situation (18.3). The same survey shows the proportion of sexually active, teenage females whose partners used condoms at the last sexual intercourse (18.4a) increased since 1988, but a decrease in the proportion of sexually active, teenage males who use condoms (18.4b). Data for objective 18.7 on the risk of transfusion-transmitted HIV infection show an improvement toward the

Figure 23. Annual incidence of diagnosed AIDS cases according to selected characteristics targeted by year 2000 objective 18.1: United States, 1989–91



NOTE: Related tables in *Health, United States, 1992*, are 53–58.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Center for Infectious Diseases.

year 2000 goal. Recent data are available to establish a baseline for objective 18.12 on the proportion of cities with outreach programs to contact drug abusers and deliver HIV risk reduction messages.

Data Issues

Definition

In January 1993 a new AIDS case definition was implemented for the AIDS Surveillance System (2). The new definition adds pulmonary tuberculosis, recurrent pneumonia, and invasive cervical cancer to the list of diseases that indicate that AIDS has fully developed among HIV-infected people. In addition, the new definition includes HIV-infected

people with a CD4 cell count below 200 cells per microliter of blood, regardless of whether those persons have opportunistic infections, neoplasms, or any other symptoms of HIV infection. It is expected that the expanded definition could increase cases reported in 1993 by approximately 75 percent.

Data Source Description

Data on the annual number of diagnosed AIDS cases are available from the AIDS Surveillance System of the Centers for Disease Control. Completeness of reporting varies by geographic region and patient population. Recent research shows that the completeness of reporting was 92 percent for hospitalized patients diagnosed with AIDS through 1988 (3). The data for

monitoring the objective are adjusted for delayed and incomplete reporting (1).

Data Availability

No national data are available that directly measure HIV seroprevalence among the general population or that provide nationally representative estimates for high risk groups such as men who have sex with men and intravenous drug users. Estimates of the prevalence of HIV infection in the U.S. population as a whole are based on mathematical models using back calculation, a statistical method that estimates the number of prior HIV infections that would account for the number of AIDS cases that have subsequently occurred (1).

Information on the proportion infected among various high risk groups has been obtained from seroprevalence studies conducted in clinical settings as part of a sentinel surveillance system conducted by CDC in collaboration with State and local health departments (4). The surveillance system covers various clinical settings in selected metropolitan areas. Seroprevalence estimates for men who have sex with men are based on anonymous surveys conducted in sexually transmitted disease (STD) clinics. For intravenous drug users, estimates are based on surveys among drug users entering treatment programs. Clients attending STD clinics and drug treatment programs are not representative of all persons with these high risk behaviors. In addition, there is considerable geographic variation in seroprevalence in both groups. For these reasons, data beyond baseline are not presented here on HIV seroprevalence levels in high risk groups.

National estimates of the total number of intravenous drug users are needed to properly measure progress towards meeting objective 18.5, which addresses the proportion of intravenous drug users in treatment. Enumeration of intravenous drug users is difficult because of the illegality of the behavior. In addition, surveys such as the National Household Survey on Drug Abuse will miss an unknown proportion of intravenous drug users who are homeless, institutionalized, or difficult to locate. The 1991 National

Household Survey on Drug Abuse estimated there were approximately one million people who had used needles to inject illicit drugs in the past year (5).

Comparability of Data Sources

The 1990 Youth Risk Behavior Survey (YRBS) provides the most recent information on the proportion of sexually active teenagers who used condoms during last sexual intercourse (18.4a and 18.4b). The YRBS is a school-based survey and so does not include teenagers who are not in school and at higher risk. The data presented are for students in the 9th–12th grades; for most students, ages ranged from 14–17 years. These data are not directly comparable to the baseline, which shows condom use among young men and women aged 15–19 years.

Objective 18.3 (adolescent postponement of sexual intercourse) is discussed in priority area 5.

Table 18. HIV objective status

| Objective | 1989 baseline | | | | | Target 2000 |
|--|-----------------------------|----------------------|------------------|---------------------|------------------|----------------|
| | Original | Revised | 1990 | 1991 | | |
| 18.1 AIDS (number of diagnosed cases per year) | 44,000- 50,000 | ¹ 48,400 | 52,900 | ² 59,000 | 98,000 | |
| a. Gay and bisexual males | 26,000- 28,000 | ¹ 27,800 | 27,900 | ² 33,000 | 48,000 | |
| b. Blacks | 14,000- 15,000 | ¹ 14,500 | 16,600 | ² 19,000 | 37,000 | |
| c. Hispanics | 7,000- 8,000 | ¹ 8,200 | 9,600 | ² 11,000 | 18,000 | |
| 18.2 HIV infection (per 100,000) | 400 | ... | 400 | --- | 800 | |
| a. Homosexual males | 2,000- 42,000 | ... | --- | --- | 20,000 | |
| b. Intravenous drug abusers | 30,000- 40,000 | ... | --- | --- | 40,000 | |
| c. Females giving birth to live-born infants | 150 | ... | 150 | --- | 100 | |
| 18.3 Adolescents who ever had sexual intercourse | | | | | | |
| Adolescents 15 years | | | | | | |
| Females | ³ 27% | ... | ⁴ 43% | ⁴ 45% | 15% | |
| Males | ³ 33% | ... | ⁴ 53% | ⁴ 51% | 15% | |
| Adolescents 17 years | | | | | | |
| Females | ³ 50% | ... | ⁵ 67% | ⁵ 65% | 40% | |
| Males | ³ 66% | ... | ⁵ 76% | ⁵ 68% | 40% | |
| 18.4 Condom use at last sexual intercourse | | | | | | |
| Sexually active unmarried females 15-44 years | ³ 19% | ... | --- | --- | 50% | |
| a. Sexually active females 15-19 years | ³ 26% | ... | ⁶ 40% | ⁶ 38% | 60% | |
| b. Sexually active males 15-19 years | ³ 57% | ... | ⁶ 49% | ⁶ 54% | 75% | |
| c. Intravenous drug abusers | --- | ... | --- | --- | 60% | |
| 18.5 IV-drug abusers in treatment | 11% | ... | --- | --- | 50% | |
| 18.6 IV-drug abusers using uncontaminated drug paraphernalia | ⁷ 25-30% | ^{1,8} 30.8% | --- | --- | 50% | |
| 18.7 Risk of transfusion-transmitted HIV infection (units of blood) | 1 per 40,000- 150,000 | ... | 1 per 225,000 | ... | 1 per 250,000 | |
| 18.8 Testing for HIV infection (HIV infected people) | 15% | ... | --- | --- | 80% | |
| 18.9 Clinician counseling to prevent HIV and other sexually transmitted disease | ⁹ 10% | ... | --- | --- | 75% | |
| a. Providers practicing in high incidence areas | --- | ... | --- | --- | 90% | |
| 18.10 HIV education in schools | | | | | | |
| Students in grades 4th-12th | 66% | ... | --- | --- | 95% | |
| 18.11 HIV education in colleges and universities | --- | ... | --- | --- | 90% | |
| 18.12 Outreach programs for drug abusers (cities with populations greater than 100,000) | ... | ⁸ 35% | --- | --- | 90% | |
| 18.13 Clinic services for HIV and other sexually transmitted diseases | --- | ... | --- | --- | 50% | |
| Family planning clinics | 40% | ... | --- | --- | ... | |
| 18.14 Occupational exposure to HIV | --- | ... | --- | --- | 100% | |

¹Data have been revised. Original data were estimated based on preliminary analysis; see Introduction.²Estimated from first half of 1991.³1988 data.⁴10th grade students.⁵12th grade students.⁶9th-12th grade students.⁷1989 data.⁸1991 data.⁹1987 data.

NOTE: Data sources are in table C.

HIV Infection Objectives

18.1: Confine annual incidence of diagnosed AIDS cases to no more than 98,000 cases.

NOTE: Targets for this objective are equal to upper bound estimates of the incidence of diagnosed AIDS cases projected for 1993.

18.1a: Confine annual incidence of diagnosed AIDS cases among gay and bisexual men to no more than 48,000 cases.

18.1b: Confine annual incidence of diagnosed AIDS cases among blacks to no more than 37,000 cases.

18.1c: Confine annual incidence of diagnosed AIDS cases among Hispanics to no more than 18,000 cases.

18.2: Confine the prevalence of HIV infection to no more than 800 per 100,000 people.

18.2a: Confine the prevalence of HIV infection among homosexual men to no more than 20,000 per 100,000 homosexual men.

18.2b: Confine the prevalence of HIV infection among intravenous drug abusers to no more than 40,000 per 100,000 intravenous drug abusers.

18.2c: Confine the prevalence of HIV infection among women giving birth to live-born infants to no more than 100 per 100,000.

18.3*: Reduce the proportion of adolescents who have engaged in sexual intercourse to no more than 15 percent by age 15 and no more than 40 percent by age 17.

Duplicate objectives: 5.4 and 19.9

18.4*: Increase to at least 50 percent the proportion of sexually active, unmarried people who used a condom at last sexual intercourse.

NOTE: Strategies to achieve this objective must be undertaken sensitively to avoid indirectly encouraging or condoning sexual activity among teens who are not yet sexually active.

Duplicate objective: 19.10

18.4a*: Increase to at least 60 percent the proportion of sexually active, unmarried young women aged 15–19 whose partners used a condom at last sexual intercourse.

Duplicate objective: 19.10a

18.4b*: Increase to at least 75 percent the proportion of sexually active, unmarried young men aged 15–19 who used a condom at last sexual intercourse.

Duplicate objective: 19.10b

18.4c*: Increase to at least 60 percent the proportion of intravenous drug abusers who used a condom at last sexual intercourse.

Duplicate objective: 19.10c

18.5: Increase to at least 50 percent the estimated proportion of all intravenous drug abusers who are in drug abuse treatment programs.

18.6: Increase to at least 50 percent the estimated proportion of intravenous drug abusers not in treatment who use only uncontaminated drug paraphernalia (“works”).

18.7: Reduce to no more than 1 per 250,000 units of blood and blood components the risk of transfusion-transmitted HIV infection.

18.8: Increase to at least 80 percent the proportion of HIV-infected people who have been tested for HIV infection.

18.9*: Increase to at least 75 percent the proportion of primary care and mental health care providers who provide age-appropriate counseling on the prevention of HIV and other sexually transmitted diseases.

NOTE: Primary care providers include physicians, nurses, nurse practitioners, and physician assistants. Areas of high AIDS and sexually transmitted disease incidence are cities and States with incidence rates of AIDS cases, HIV seroprevalence, gonorrhea, or syphilis that are at least 25 percent above the national average.

Duplicate objective: 19.14

18.9a*: Increase to at least 90 percent the proportion of primary care and mental health care providers who practice in areas of high AIDS and sexually transmitted disease incidence, who provide age appropriate counseling on the prevention of HIV and other sexually transmitted diseases.

Duplicate objective: 19.14a

18.10: Increase to at least 95 percent the proportion of schools that have age-appropriate HIV education curricula for students in 4th–12th grade, preferably as part of quality school health education.

18.11: Provide HIV education for students and staff in at least 90 percent of colleges and universities.

18.12: Increase to at least 90 percent the proportion of cities with populations over 100,000 that have outreach programs to contact drug abusers (particularly intravenous drug abusers) to deliver HIV risk reduction messages.

NOTE: HIV risk reduction messages include messages about reducing or eliminating drug use, entering drug treatment, disinfection of injection equipment if still injecting drugs, and safer sex practices.

18.13*: Increase to at least 50 percent the proportion of family planning clinics, maternal and child health clinics, sexually transmitted disease clinics, tuberculosis clinics, drug treatment centers, and primary care clinics that screen, diagnose, treat, counsel, and provide (or refer for) partner notification services for bacterial sexually transmitted diseases (gonorrhea, syphilis, and chlamydia).

Duplicate objectives: 5.11 and 19.11

18.14: Extend to all facilities where workers are at risk for occupational transmission of HIV regulations to protect workers from exposure to blood borne infections, including HIV infection.

NOTE: The Occupational Safety and Health Administration (OSHA) is expected to issue regulations requiring worker protection from exposure to blood borne infections, including HIV, during 1991. Implementation of the OSHA regulations would satisfy this objective.

*Duplicate objective.

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Priority Area 19

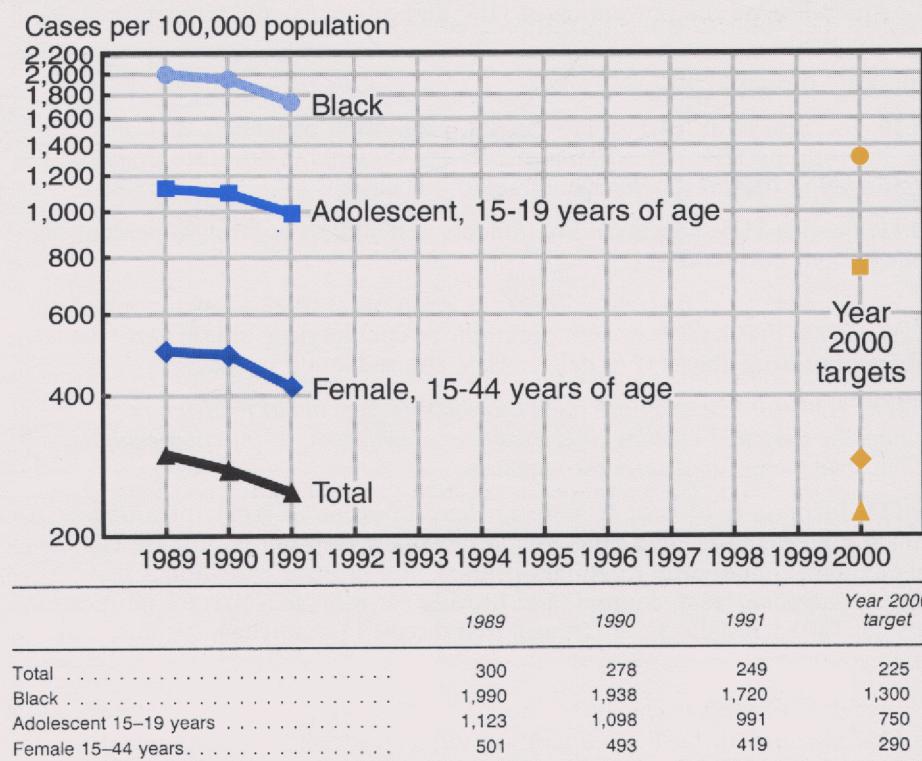
Sexually Transmitted Diseases

Background and Data Summary

In 1989, excluding infection with the human immunodeficiency virus (HIV), almost 12 million cases of sexually transmitted diseases were reported, 86 percent of them in people aged 15–29 years (1). By age 21, approximately one of every five young people has required treatment for a sexually transmitted disease (2). Women and children suffer a disproportionate amount of the sexually transmitted disease burden, with pelvic inflammatory disease, sterility, ectopic pregnancy, blindness, cancer associated with human papilloma virus, fetal and infant deaths, birth defects, and mental retardation among the most serious complications. Ethnic and racial minorities also shoulder a disproportionate share of the sexually transmitted disease burden, experiencing higher rates of disease and disability than the population as a whole. The total societal cost of sexually transmitted diseases exceeds \$3.5 billion annually, with the cost of pelvic inflammatory disease (PID) and PID-associated ectopic pregnancy and infertility alone exceeding \$2.6 billion (2).

Results toward achieving the sexually transmitted disease objectives are mixed. Data to monitor progress are available for 9 of the 15 objectives. For four objectives, trends are in a positive direction; recent data show reduced incidence of gonorrhea (objective 19.1), nongonococcal urethritis (19.2), primary and secondary syphilis (19.3), and pelvic inflammatory disease (19.6) compared with baseline rates. The incidence of primary and secondary syphilis has increased among black persons, in contrast to a decrease in the population as a whole. A worsening situation has been seen for three objectives. The incidence of congenital syphilis (19.4), the number of sexually transmitted hepatitis B cases (19.7), and percent of adolescents having sexual intercourse

Figure 24. Annual incidence of gonorrhea, according to selected characteristics: United States, 1989–91 and year 2000 targets for objective 19.1



NOTE: Related table in *Health, United States, 1992*, is 52.

SOURCE: Centers for Disease Control and Prevention, National Center for Prevention Services, Gonorrhea Surveillance System.

(19.9) have increased and are moving away from the year 2000 targets. The annual number of first physician office visits for genital herpes increased from the 1988 baseline, while first physician office visits for genital warts decreased (19.5). The proportion of sexually active teenage females whose partners used condoms at their last sexual intercourse (19.10a) has increased compared with baseline data, showing an improvement toward the year 2000 target. However, a reverse trend was seen among teenage males (19.10b). Data subsequent to baseline measures are unavailable for six objectives (19.8, 19.11–19.15). In addition,

baseline data are not yet available for two subobjectives: condom use among intravenous drug users (19.10c) and counseling on HIV and STD prevention by providers practicing in high incidence areas (19.14a).

Data Issues

Definition

In January 1988 CDC issued new guidelines for classifying and reporting cases of congenital syphilis. The new definition is more useful for public health surveillance; the previous definition involved physical

examination, laboratory and radiographic results, and follow-up serological data (3). Follow-up information was often difficult to obtain and led to delayed and underreporting. In addition, the clinical criteria excluded stillbirths to mothers with untreated syphilis. The new surveillance guidelines provide criteria that can be obtained soon after delivery. The new case definition includes criteria for

presumptive and confirmed cases of syphilis in infants and children and includes stillbirths. A presumptive case includes all infants whose mothers have untreated or inadequately treated syphilis at delivery (4). Thus, an increased number of cases will be reported using the new guidelines. The new case reporting criteria were fully implemented by States in 1991. The data presented for objective 19.4 on

the incidence of congenital syphilis per 100,000 live births in 1989 and 1990 have been adjusted to reflect the expected rate if the new case definition had been used in all States.

Comparability of Data Sources

The history of sexual intercourse among adolescents (19.9) is discussed in priority area 5. Condom use at last sexual intercourse (19.10) is discussed in priority area 18.

Table 19. Sexually transmitted diseases objective status

| Objective | 1988 baseline | | | | Target 2000 |
|---|---------------------|-----------------------|----------------------|------------------|----------------|
| | Original | Revised | 1990 | 1991 | |
| 19.1 Gonorrhea (per 100,000) | 1300 | ... | 278 | 249 | 225 |
| a. Blacks | 11,990 | ... | 1,938 | 1,720 | 1,300 |
| b. Adolescents 15–19 years | 11,123 | ... | 1,098 | 991 | 750 |
| c. Females 15–44 years | 1501 | ... | 493 | 419 | 290 |
| 19.2 Nongonococcal urethritis (per 100,000) | 215 | ... | 1200 | 170 | 170 |
| 19.3 Primary and secondary syphilis (per 100,000) | 118.1 | ... | 20.1 | 17.3 | 10 |
| a. Blacks | 1118 | ... | 143 | 124 | 65 |
| 19.4 Congenital syphilis (per 100,000 live births) | 1100.0 | ... | 78.3 | 103.4 | 50 |
| 19.5 Annual number of first time consultations² | | | | | |
| Genital herpes | 167,000 | ³ 163,000 | ¹ 172,000 | 285,000 | 142,000 |
| Genital warts | 451,000 | ³ 290,000 | ¹ 275,000 | 282,000 | 385,000 |
| 19.6 Pelvic inflammatory disease incidence (per 100,000) | | | | | |
| Females 15–44 years | 311 | ... | 261 | 234 | 250 |
| 19.7 Sexually transmitted Hepatitis B (number of cases) | ⁴ 58,300 | ^{4,5} 47,593 | 47,881 | 58,393 | 30,500 |
| 19.8 Repeat gonorrhea infection | ⁴ 20% | ... | --- | --- | 15% |
| 19.9 Adolescents who ever had sexual intercourse | | | | | |
| Adolescents 15 years | | | | | |
| Females | 27% | ... | ⁶ 43% | ⁶ 45% | 15% |
| Males | 33% | ... | ⁶ 53% | ⁶ 51% | 15% |
| Adolescents 17 years | | | | | |
| Females | 50% | ... | ⁷ 67% | ⁷ 65% | 40% |
| Males | 66% | ... | ⁷ 76% | ⁷ 68% | 40% |
| 19.10 Condom use at last sexual intercourse | | | | | |
| Sexually active unmarried females 15–44 years | 19% | ... | --- | --- | 50% |
| a. Sexually active females 15–19 years | 25% | ⁸ 26% | ⁹ 40% | ⁹ 38% | 60% |
| b. Sexually active males 15–19 years | 57% | ... | ⁹ 49% | ⁹ 54% | 75% |
| c. Intravenous drug abusers | --- | ... | --- | --- | 60% |
| 19.11 Clinic services for HIV and other sexually transmitted diseases | --- | ... | --- | --- | 50% |
| Family planning clinics | 140% | ... | --- | --- | ... |
| 19.12 Sexually transmitted disease education in schools | 95% | ... | --- | --- | 100% |
| 19.13 Correct management of sexually transmitted disease cases by primary care providers | 70% | ... | --- | --- | 90% |
| 19.14 Clinician counseling to prevent HIV and other sexually transmitted diseases | ⁴ 10% | ... | --- | --- | 75% |
| a. Providers practicing in high incidence areas | --- | ... | --- | --- | 90% |
| 19.15 Partner notification of exposure to sexually transmitted diseases | 20% | ... | --- | --- | 50% |

¹1989 data.

²As measured by first time visits to physicians' offices.

³Data have been revised to reflect updated methodology; see Introduction.

⁴1987 data.

⁵Data have been revised. Original data were estimated based on preliminary analyses; see Introduction.

⁶10th grade students.

⁷12th grade students.

⁸Baseline was revised due to error in original publication.

⁹9th–12th grade students.

NOTE: Data sources are in table C.

Sexually Transmitted Diseases Objectives

19.1: Reduce gonorrhea to an incidence of no more than 225 cases per 100,000 people.

19.1a: Reduce gonorrhea among blacks to an incidence of no more than 1,300 cases per 100,000.

19.1b: Reduce gonorrhea among adolescents aged 15–19 to no more than 750 cases per 100,000.

19.1c: Reduce gonorrhea among women aged 15–44 to no more than 290 cases per 100,000.

19.2: Reduce Chlamydia trachomatis infections, as measured by a decrease in the incidence of nongonococcal urethritis to no more than 170 cases per 100,000 people.

19.3: Reduce primary and secondary syphilis to an incidence of no more than 10 cases per 100,000 people.

19.3a: Reduce primary and secondary syphilis among blacks to an incidence of no more than 65 cases per 100,000.

19.4: Reduce congenital syphilis to an incidence of no more than 50 cases per 100,000 live births.

19.5: Reduce genital herpes and genital warts, as measured by a reduction to 142,000 and 385,000, respectively, in the annual number of first-time consultations with a physician for the conditions.

19.6: Reduce the incidence of pelvic inflammatory disease, as measured by a reduction in hospitalizations for pelvic inflammatory disease to no more than 250 per 100,000 women aged 15–44.

19.7*: Reduce sexually transmitted hepatitis B infection to no more than 30,500 cases.

Duplicate objectives: 20.03b and 20.03c, combined

19.8: Reduce the rate of repeat gonorrhea infection to no more than 15 percent within the previous year.

NOTE: As measured by a reduction in the proportion of gonorrhea patients who, within the previous year, were treated for a separate case of gonorrhea.

19.9*: Reduce the proportion of adolescents who have engaged in sexual intercourse to no more than 15 percent by age 15 and no more than 40 percent by age 17.

Duplicate objectives: 5.4 and 18.3

19.10*: Increase to at least 50 percent the proportion of sexually active, unmarried people who used a condom at last sexual intercourse.

Duplicate objective: 18.4

19.10a*: Increase to at least 60 percent the proportion of sexually active, unmarried young women aged 15–19 whose partner used a condom at last sexual intercourse.

Duplicate objective: 18.4a

19.10b*: Increase to at least 75 percent the proportion of sexually active, unmarried young men aged 15–19 who used a condom at last sexual intercourse.

Duplicate objective: 18.4b

19.10c*: Increase to at least 60 percent the proportion of intravenous drug abusers who used a condom at last sexual intercourse.

Duplicate objective: 18.4c

19.11*: Increase to at least 50 percent the proportion of family planning clinics, maternal and child health clinics, sexually transmitted disease clinics, tuberculosis clinics, drug treatment centers, and primary care clinics that screen, diagnose, treat, counsel, and provide (or refer for) partner notification services for bacterial sexually transmitted diseases (gonorrhea, syphilis, and chlamydia).

Duplicate objectives: 5.11 and 18.13

19.12: Include instruction in sexually transmitted disease transmission prevention in the curricula of all middle and secondary schools, preferably as part of quality school health education.

NOTE: Strategies to achieve this objective must be undertaken sensitively to avoid indirectly encouraging or condoning sexual activity among teens who are not yet sexually active.

19.13: Increase to at least 90 percent the proportion of primary care providers treating patients with sexually transmitted diseases who correctly manage cases, as measured by their use of appropriate types and amounts of therapy.

19.14*: Increase to at least 75 percent the proportion of primary care and mental health care providers who provide age-appropriate counseling on the prevention of HIV and other sexually transmitted diseases.

NOTE: Primary care providers include physicians, nurses, nurse practitioners, and physician assistants. Areas of high AIDS and sexually transmitted disease incidence are cities and States with incidence rates of AIDS cases, HIV seroprevalence, gonorrhea, or syphilis that are at least 25 percent above the national average.

Duplicate objective: 18.9

19.14a*: Increase to at least 90 percent the proportion of primary care and mental health care providers who practice in areas of high AIDS and sexually transmitted disease incidence who provide age appropriate counseling on the prevention of HIV and other sexually transmitted diseases.

Duplicate objective: 18.9a

19.15: Increase to at least 50 percent the proportion of all patients with bacterial sexually transmitted diseases (gonorrhea, syphilis, and chlamydia) who are offered provider referral services.

NOTE: Provider referral (previously called contact tracing) is the process whereby health department personnel directly notify the sexual partners of infected individuals of their exposure to an infected individual.

*Duplicate objective.

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Priority Area 20 Immunization and Infectious Diseases

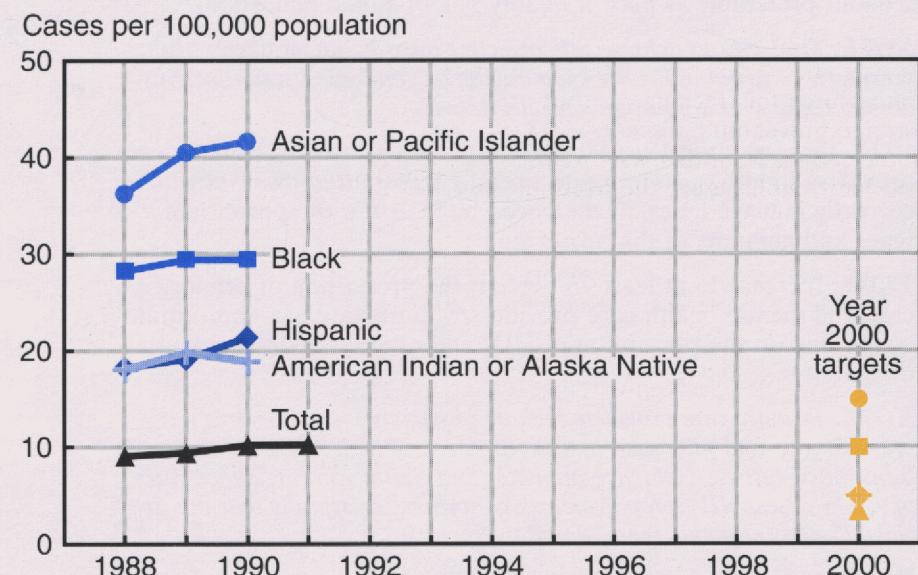
Background and Data Summary

The reduction in incidence of infectious diseases is a significant public health achievement of this century. Much of this progress is a result of improvements in basic hygiene, food production and handling, and water treatment. The development and widespread use of vaccines has been instrumental in reducing the incidence of many infectious diseases. For others, antimicrobial agents have greatly reduced illness and death. Despite the progress that has been made, infectious diseases remain an important cause of illness and death in the United States. The very young, older adults, and members of minority groups are at increased risk for many infectious diseases. Each of the causative agents of infectious diseases, even those that are currently rare, pose a potential threat of recurrence or development of resistance to current treatment. For example, susceptibility to active tuberculosis among persons infected with HIV has contributed to an increase in the number of tuberculosis cases after a steady decline since the 1950's (1).

Outbreaks of multiple drug-resistant tuberculosis cases have occurred in recent years. A number of newly recognized infectious diseases have emerged. Recent examples include Legionnaires' Disease, toxic shock syndrome, Lyme disease, and the wide spectrum of diseases associated with the human immunodeficiency virus (HIV).

Recent data indicate mixed results regarding trends toward achieving the year 2000 objectives in the immunization and infectious diseases priority area. For 3 of the 19 objectives (20.3, 20.13, and 20.15) there is progress toward achieving the year 2000 targets. This includes an overall reduction in the incidence of viral hepatitis (20.3). The target for hepatitis C has been surpassed. Among the special population targets

Figure 25. Annual incidence of tuberculosis, according to race and ethnicity: United States, 1988–91 and year 2000 targets for objective 20.4



| | 1988 | 1989 | 1990 | 1991 | Year 2000 target |
|---|------|------|------|------|------------------|
| All persons | 9.1 | 9.5 | 10.3 | 10.4 | 3.5 |
| Asian or Pacific Islander | 36.3 | 40.5 | 41.6 | — | 15.0 |
| Black | 28.3 | 29.5 | 29.5 | — | 10.0 |
| Hispanic | 18.3 | 19.1 | 21.4 | — | 5.0 |
| American Indian or Alaska Native. | 18.1 | 19.9 | 18.9 | — | 5.0 |

NOTE: A related table in *Health, United States, 1992*, is table 52.

SOURCE: Centers for Disease Control and Prevention, Center for Prevention Services.

for hepatitis B, a dramatic reduction in the number of cases has occurred among intravenous drug users, surpassing the number targeted for the year 2000. However, hepatitis B cases have increased among heterosexually active people and men who have sex with men.

Five objectives (20.2, 20.4, 20.9, 20.12, and 20.18) are moving away from the target. These include increased morbidity from various infectious diseases, including pneumonia and influenza (20.2), tuberculosis (20.4), and middle ear infections among children (20.9). Mixed results are shown for four

other objectives (20.1, 20.6, 20.10, and 20.11). Cases of many vaccine-preventable diseases increased since baseline, although declines were observed for mumps and pertussis (20.1). Although the number of measles cases in 1991 was considerably higher than the number reported in 1988, the 1991 data show a decline from the number of cases reported in 1989 and 1990. Hepatitis A reported among international travelers has declined, while malaria and typhoid cases have increased (20.6). Restricted activity related to pneumonia decreased among children less than 5 years old but increased among those 65 years and older (20.10). New data are available to

establish baseline measures for three objectives (20.5, 20.8, and 20.16). Data are not yet available to establish baseline measures for three objectives (20.14, 20.17, and 20.19) or to provide a measure after baseline for one objective (20.7).

Data Issues

Data Source Description

The National Notifiable Disease Surveillance System (NNDSS) is the data source for tracking cases of vaccine-preventable diseases (20.1). Interim data from this system are routinely published in the Morbidity and Mortality Weekly Report. Final data, used to track objective 20.1, are published in the Annual Summary of Notifiable Diseases (2). Detailed epidemiologic analyses of data from NNDSS are sometimes published in special surveillance reports. Data in these reports may not agree exactly with reports published in the Morbidity and Mortality Weekly Report because of differences in timing or refinements in case definition. The NNDSS is the data source for specific disease surveillance systems, such as the Viral Hepatitis Surveillance System and the Tuberculosis Morbidity Data System (20.3 and 20.4). In the case of the Viral Hepatitis Surveillance System, the data are corrected for underreporting.

Definition

Epidemic-related pneumonia and influenza deaths are defined as those that are above the normal yearly fluctuations of mortality. The data cannot be obtained directly from published mortality figures. Each year expected numbers of pneumonia and influenza deaths are calculated through a cyclical regression model using data for previous years but excluding data for the periods when mortality was known to be raised by influenza epidemics (3). Epidemic-related deaths are defined as those that exceed by 1.645 standard deviations the expected number based on the model.

Comparability of Data Sources

Recent data on immunization levels among children less than 2

years old are not directly comparable with the baseline data (20.11). The revised baseline was obtained from the 1985 United States Immunization Survey and shows the range of antigen-specific vaccination levels at the time of interview among children 2 years old. The specific immunization levels were 54 percent for polio, 61 percent for measles-containing vaccines, and 64 percent for diphtheria-tetanus-pertussis (DTP). The 1991 figure of 37 percent, obtained from the National Health Interview Survey (NHIS), represents the proportion of children 2 years of age who are fully immunized for measles-mumps-rubella (MMR), polio, and DTP at the time of interview. The antigen-specific immunization levels were 52 percent for polio, 67 percent for DTP and 80 percent for MMR (a related table in *Health, United States, 1992*, is 51, which shows data for 1-4 year-olds).

The NHIS may have underestimated immunization levels among 2 year old children for whom shot records were not available at time of interview. Among 52 percent of white respondents and 40 percent of respondents of all other races who either had shot records or who reported that the child had never received a vaccination, 56 percent of 2 year old children were fully immunized for polio, MMR, and DTP at the time of interview. Among the same group of respondents, 47 percent of the 2 year olds were fully immunized by their second birthday.

Table 20. Immunization and infectious diseases objective status

| | Objective | 1987 baseline | | | | Target 2000 |
|-------------|---|-------------------|---------------------|--------------------|--------|----------------|
| | | Original | Revised | 1990 | 1991 | |
| 20.1 | Vaccine-preventable diseases (number of cases) | | | | | |
| | Diphtheria among people 25 years and under | ¹¹ | ... | 2 | 2 | 0 |
| | Tetanus among people 25 years and under | ¹³ | ... | 6 | 4 | 0 |
| | Polio (wild-type virus) | ¹⁰ | ... | 0 | 0 | 0 |
| | Measles | 13,058 | ... | 26,527 | 9,411 | 0 |
| | Rubella | 1225 | ... | 1,125 | 1,401 | 0 |
| | Congenital Rubella Syndrome | ¹⁶ | ... | 11 | 47 | 0 |
| | Mumps | 14,866 | ... | 5,292 | 4,264 | 500 |
| | Pertussis | 13,450 | ... | 4,570 | 2,719 | 1,000 |
| 20.2 | Epidemic-related pneumonia and influenza deaths among older adults (per 100,000) | 29.1 | ... | ³ 12.0 | --- | 7.3 |
| 20.3 | Viral hepatitis (cases per 100,000) | | | | | |
| | Hepatitis B (HBV) | 63.5 | ... | 50.6 | 42.6 | 40.0 |
| | Hepatitis A | 31.0 | ⁴ 33.0 | 37.9 | 29.0 | 23.0 |
| | Hepatitis C | 18.3 | ... | 13.1 | 8.3 | 13.7 |
| | HBV Cases (number of cases) | | | | | |
| | a. Intravenous drug abusers | 30,000 | ⁴ 44,348 | 17,615 | 12,666 | 22,500 |
| | b. Heterosexually active people | 33,000 | ⁴ 33,995 | 33,971 | 43,795 | 22,000 |
| | c. Homosexual males | 25,300 | ⁴ 13,598 | 13,840 | 14,598 | 8,500 |
| | d. Children of Asians/Pacific Islanders | 8,900 | ⁴ 10,817 | 8,807 | 7,514 | 1,800 |
| | e. Occupationally exposed workers | 6,200 | ⁴ 3,090 | 1,258 | 2,576 | 1,250 |
| | f. Infants | 3,500 | ⁴ 3,863 | 3,003 | 2,235 | 550 |
| | New Carriers | | | | | |
| | g. Alaska Natives | 15 | ... | 15 | 15 | 1 |
| 20.4 | Tuberculosis (cases per 100,000) | 19.1 | ... | 10.3 | 10.4 | 3.5 |
| | a. Asians/Pacific Islanders | ¹ 36.3 | ... | 41.6 | --- | 15.0 |
| | b. Blacks | ¹ 28.3 | ... | 29.5 | --- | 10.0 |
| | c. Hispanics | ¹ 18.3 | ... | 21.4 | --- | 5.0 |
| | d. American Indians/Alaska Natives | ¹ 18.1 | ... | 18.9 | --- | 5.0 |
| 20.5 | Surgical wound and nosocomial infections | | | | | |
| | Surgical wound infection rates (per 100 operations) | | | | | |
| | Low risk patients | ... | ⁵ 1.1 | --- | --- | 1.0 |
| | Medium-low risk patients | ... | ⁵ 3.2 | --- | --- | 2.9 |
| | Medium-high risk patients | ... | ⁵ 6.3 | --- | --- | 5.7 |
| | High risk patients | ... | ⁵ 14.4 | --- | --- | 13.0 |
| | Device-associated nosocomial infection rates (per 1,000 device-days) | | | | | |
| | Bloodstream Infections | | | | | |
| | Medical/Coronary ICUs | ... | ⁵ 6.9 | --- | --- | 6.2 |
| | Surgical/Medical-Surgical ICUs | ... | ⁵ 5.3 | --- | --- | 4.8 |
| | Pediatric ICUs | ... | ⁵ 11.4 | --- | --- | 10.3 |
| | Urinary Tract Infections | | | | | |
| | Medical/Coronary ICUs | ... | ⁵ 10.7 | --- | --- | 9.6 |
| | Surgical/Medical-Surgical ICUs | ... | ⁵ 7.6 | --- | --- | 6.8 |
| | Pediatric ICUs | ... | ⁵ 5.8 | --- | --- | 5.2 |
| | Pneumonia | | | | | |
| | Medical/Coronary ICUs | ... | ⁵ 12.8 | --- | --- | 11.5 |
| | Surgical/Medical-Surgical ICUs | ... | ⁵ 17.6 | --- | --- | 15.8 |
| | Pediatric ICUs | ... | ⁵ 4.7 | --- | --- | 4.2 |
| 20.6 | Illness among international travelers (number of cases) | | | | | |
| | Typhoid fever | 280 | | 386 | 351 | 140 |
| | Hepatitis A | 1,280 | ⁴ 4,475 | 3,962 | 3,730 | 640 |
| | Malaria | 2,000 | ⁴ 932 | ⁶ 1,102 | 1,021 | 1,000 |
| 20.7 | Bacterial meningitis (per 100,000) | 76.3 | ⁴ 76.5 | --- | --- | 4.7 |
| | a. Alaska Natives | 33 | ... | --- | 17 | 8 |
| 20.8 | Diarrhea among children in child care centers | | | | | |
| | Children 0-6 years | ... | ⁸ 32% | --- | --- | 24% |
| | Children 0-3 years | ... | ⁸ 38% | --- | --- | 28% |
| 20.9 | Ear infections among children (restricted activity days per 100 children) | 131 | ⁹ 135.4 | 125.0 | 155.7 | 105.0 |

Table 20. Immunization and infectious diseases objective status—Con.

| Objective | 1987 baseline | | | 1990 | 1991 | Target 2000 |
|--|----------------------|------------------------|--|----------------------|----------------------|----------------|
| | Original | Revised | | | | |
| 20.10 Pneumonia-related illness (restricted activity days per 100 people) | | | | | | |
| People 65 years and over..... | 48.0 | ⁸ 19.1 | | 46.2 | 78.5 | 38.0 |
| Children 4 years and under..... | 27.0 | ⁸ 29.4 | | 51.3 | 24.1 | 24.0 |
| 20.11 Immunization (percent immunized) | | | | | | |
| Basic immunization series among children | | | | | | |
| Children 2 years and under | ¹⁰ 70–80% | ^{9,11} 54–64% | | --- | ¹² 37% | 90% |
| Children in licensed child care facilities | 94% | ^{9,13} 94–95% | | ¹³ 94–96% | ¹³ 94–96% | 95% |
| Children in kindergarten through post-secondary education institutions | 97% | ^{9,13} 97–98% | | ¹³ 97–98% | ¹³ 96–98% | 95% |
| Pneumococcal pneumonia and influenza immunizations | | | | | | |
| Institutionalized chronically ill people or older people..... | --- | ... | | --- | --- | 80% |
| Non-institutionalized high risk populations..... | ¹⁰ 10–20% | ^{9,14} 14–30% | | --- | ¹⁵ 16% | 60% |
| Hepatitis B immunizations | | | | | | |
| Infants of antigen-positive mothers..... | ... | ⁹ 40% | | --- | --- | 90% |
| Occupationally exposed workers | ... | ⁶ 37% | | --- | --- | 90% |
| IV-drug users in drug treatment programs..... | --- | ... | | --- | --- | 50% |
| Homosexual males | --- | ... | | --- | --- | 50% |
| 20.12 Post exposure rabies treatments (number) | 18,000 | ... | | --- | 18,800 | 9,000 |
| 20.13 Immunization laws (number of States) | ^{16,17} 10 | ^{6,9} 10–49 | | --- | ¹⁸ 34–50 | 50 |
| 20.14 Provision of immunizations by clinicians | --- | ... | | --- | --- | 90% |
| 20.15 Financial barriers to immunization | | | | | | |
| Employment-based insurance plans that provide coverage for immunizations | | | | | | |
| Conventional insurance plans..... | ⁶ 45% | ... | | 47% | --- | 100% |
| Preferred Provider Organization plans | ⁶ 62% | ... | | 65% | --- | 100% |
| Health Maintenance Organization plans..... | ⁶ 98% | ... | | 98% | --- | 100% |
| 20.16 Public health department provision of immunizations | ... | ¹⁶ 37–70% | | --- | --- | 90% |
| 20.17 Local health programs to identify tuberculosis | --- | ... | | --- | --- | 90% |
| 20.18 Preventive therapy for tuberculosis | | | | | | |
| (percent of infected persons completing therapy)..... | 66.3% | ... | | 63.0% | --- | 85% |
| 20.19 Laboratory capability for influenza diagnosis | | | | | | |
| Tertiary care hospitals..... | --- | ... | | --- | --- | 85% |
| Secondary care hospitals and HMOs..... | --- | ... | | --- | --- | 50% |

¹1988 data.

²1980–87 data.

³1986–88 data.

⁴Data have been revised. Original data were estimated based on preliminary analysis; see Introduction.

⁵1986–90 data.

⁶1989 data.

⁷1986 data.

⁸1991 data.

⁹Data have been revised to reflect updated methodology; see Introduction.

¹⁰1985 data.

¹¹1985 data; range of antigen-specific immunization levels among 2 year old children (see text).

¹²Proportion of 2 year old children who have received all the recommended doses of diphtheria-tetanus-pertussis, measles-mumps-rubella, and polio (see text).

¹³Range of antigen-specific immunization levels.

¹⁴1989 data; among people 65 years and over, 14 percent received pneumococcal vaccine and 30 percent received influenza vaccine.

¹⁵Proportion of people 65 years and over who received both pneumococcal and influenza vaccines; 21 percent received pneumococcal vaccine and 42 percent received influenza vaccine.

¹⁶1990 data.

¹⁷Includes Washington, DC.

¹⁸1992 data.

NOTE: Data sources are in table C.

Immunization and Infectious Diseases Objectives

20.1: Reduce indigenous cases of vaccine-preventable diseases as follows:

| Disease | 2000 target |
|---|-------------|
| Diphtheria among people aged 25 and younger | 0 |
| Tetanus among people aged 25 and younger | 0 |
| Polio (wild-type virus) | 0 |
| Measles (indigenous) | 0 |
| Rubella | 0 |
| Congenital Rubella Syndrome | 0 |
| Mumps | 500 |
| Pertussis | 1,000 |

20.2: Reduce epidemic-related pneumonia and influenza deaths among people aged 65 and older to no more than 7.3 per 100,000 people.

NOTE: Epidemic-related pneumonia and influenza deaths are those that occur above and beyond the normal yearly fluctuations of mortality. Because of the extreme variability in epidemic-related deaths from year to year, the target is a 3-year average.

20.3*: Reduce viral hepatitis as follows:

Hepatitis B (HBV): 40 per 100,000 people

Hepatitis A: 23 per 100,000 people

Hepatitis C: 13.7 cases per 100,000 people

Duplicate objectives: 19.07, 10.5

20.3a: Reduce Hepatitis B (HBV) among intravenous drug abusers to no more than 22,500 cases per 100,000.

20.3b*: Reduce Hepatitis B (HBV) among heterosexually active people to no more than 22,000 cases per 100,000.

Duplicate objective: 19.7

20.3c*: Reduce Hepatitis B (HBV) among homosexual men to no more than 8,500 cases per 100,000.

Duplicate objective: 19.7

20.3d: Reduce Hepatitis B (HBV) among children of Asian and Pacific Islanders to no more than 1,800 cases per 100,000.

20.3e*: Reduce Hepatitis B (HBV) among occupationally exposed workers to no more than 1,250 cases per 100,000.

Duplicate objective: 10.5

20.3f: Reduce Hepatitis B (HBV) among infants to no more than 550 new carriers per 100,000.

20.3g: Reduce Hepatitis B (HBV) among Alaska Natives to no more than 1 case per 100,000.

20.4: Reduce tuberculosis to an incidence of no more than 3.5 cases per 100,000 people.

20.4a: Reduce tuberculosis among Asians and Pacific Islanders to an incidence of no more than 15 cases per 100,000.

20.4b: Reduce tuberculosis among blacks to an incidence of no more than 10 cases per 100,000.

20.4c: Reduce tuberculosis among Hispanics to an incidence of no more than 5 cases per 100,000.

20.4d: Reduce tuberculosis among American Indians and Alaska Natives to an incidence of no more than 5 cases per 100,000.

20.5: Reduce by at least 10 percent the incidence of surgical wound infections and no socomial infections in intensive care patients.

20.6: Reduce selected illness among international travelers as follows:

 Typhoid fever: 140 cases
 Hepatitis A: 640 cases
 Malaria: 1,000 cases

20.7: Reduce bacterial meningitis to no more than 4.7 cases per 100,000 people.

20.7a: Reduce bacterial meningitis among Alaska Natives to no more than 8 cases per 100,000 people.

20.8: Reduce infectious diarrhea by at least 25 percent among children in licensed child care centers and children in programs that provide an Individualized Education Program (IEP) or Individualized Health Plan (IHP).

20.9: Reduce acute middle ear infections among children aged 4 and younger, as measured by days of restricted activity or school absenteeism, to no more than 105 days per 100 children.

20.10: Reduce pneumonia-related days of restricted activity as follows:

 38 days per 100 people aged 65 and older.
 24 days per 100 children aged 4 and younger.

20.11: Increase immunization levels as follows:

Basic immunization series among children under age 2: at least 90 percent.

Basic immunization series among children in licensed child care facilities and kindergarten through post-secondary education institutions: at least 95 percent.

Pneumococcal pneumonia and influenza immunization among institutionalized chronically ill or older people: at least 80 percent.

Pneumococcal pneumonia and influenza immunization among noninstitutionalized, high-risk populations, as defined by the Immunization Practices Advisory Committee: at least 60 percent.

Hepatitis B immunization among high-risk populations, including infants of surface antigen-positive mothers to at least 90 percent; occupationally exposed workers to at least 90 percent; IV-drug users in drug treatment programs to at least 50 percent; and homosexual men to at least 50 percent.

Duplicate objective for occupationally exposed workers: 10.9

20.12: Reduce postexposure rabies treatments to no more than 9,000 per year.

20.13: Expand immunization laws for schools, preschools, and day care settings to all States for all antigens.

20.14: Increase to at least 90 percent the proportion of primary care providers who provide information and counseling about immunizations and offer immunizations as appropriate for their patients.

20.15: Improve the financing and delivery of immunizations for children and adults so that virtually no American has a financial barrier to receiving recommended immunizations.

20.16: Increase to at least 90 percent the proportion of public health departments that provide adult immunization for influenza, pneumococcal disease, hepatitis B, tetanus, and diphtheria.

20.17: Increase to at least 90 percent the proportion of local health departments that have ongoing programs for actively identifying cases of tuberculosis and latent infection in populations at high risk for tuberculosis.

NOTE: Local health department refers to any local component of the public health system, defined as an administrative and service unit of local or State

government concerned with health and carrying some responsibility for the health of a jurisdiction smaller than a State.

20.18: Increase to at least 85 percent the proportion of people found to have tuberculosis infection who completed courses of preventive therapy.

20.19: Increase to at least 85 percent the proportion of tertiary care hospital laboratories and to at least 50 percent the proportion of secondary care hospital and health maintenance organization laboratories possessing technologies for rapid viral diagnosis of influenza.

*Duplicate objective

References

1. Jereb JA, Kelly GD, Dooley SW, et al. Tuberculosis morbidity in the United States: Final data, 1990. MMWR 40(SS-3) :23-7. 1991.
2. Centers for Disease Control. Summary of notifiable diseases, United States, 1990. MMWR 39(53). 1991.
3. Lui K-J, Kendal AP. Impact of influenza epidemics on mortality in the United States from October 1972 to May 1985. Am J Public Health 77: 712-6. 1987.

Priority Area 21

Clinical Preventive Services

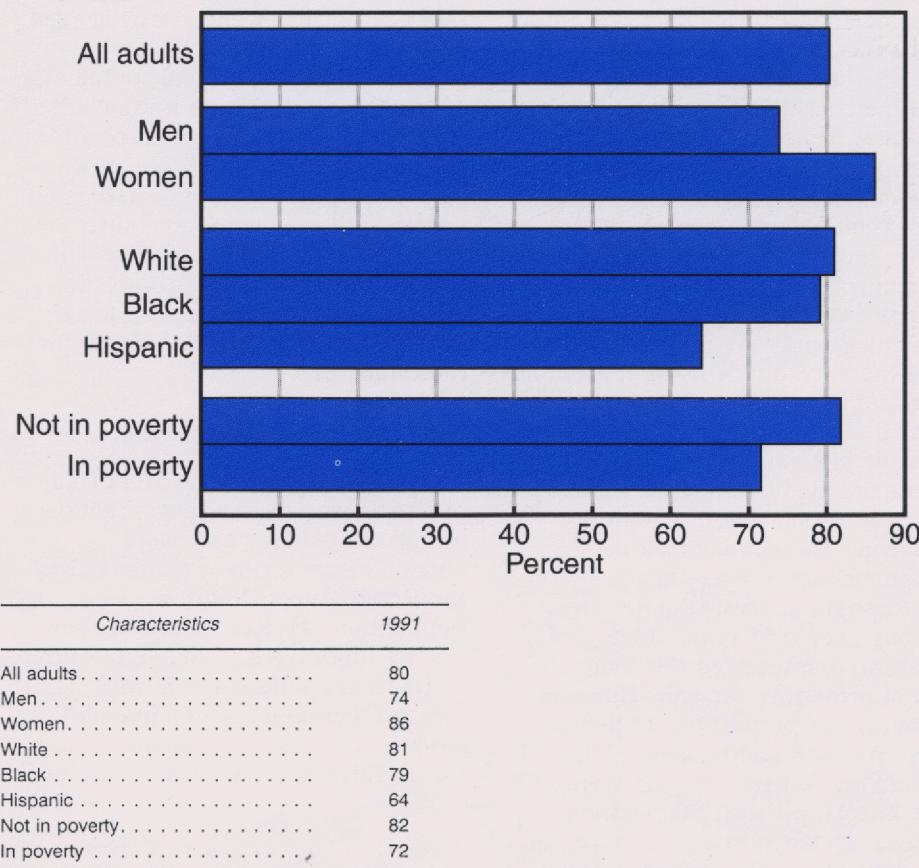
Background and Data Summary

Clinical preventive services are those disease prevention and health promotion services—immunizations, screening for early detection of disease or risk factors, and patient counseling—that are delivered to individuals in a health care setting. The U.S. Clinical Preventive Services Task Force, a panel of prevention experts appointed by the U.S. Public Health Service, has reviewed the full range of scientific literature on clinical preventive services and developed scientifically sound recommendations for specific services based on age, gender, and other risk factors (1).

Preventive services for specific diseases and health-related behaviors are addressed in other priority areas of *Healthy People 2000*. For example, receipt of pap smears, clinical breast exams, and mammography are addressed in the cancer priority area. The objectives in this priority area support those objectives by considering clinical preventive services as a complete package and addressing barriers that impede access to and use of these services.

Data are available for only two objectives (21.3 and 21.8) to assess trends towards meeting the eight Clinical Preventive Services objectives, although recent data are available to establish baseline measures for four other objectives (21.2, 21.4, 21.5, and 21.7). Data from the 1991 NHIS on the proportion of people who have a specific source of ongoing primary care show a slight decline from the 1986 baseline for the population as a whole and for Hispanics and people with low incomes (21.3). Over the same time period, the proportion of black persons who had a specific source of primary care did not change. In 1991 the proportion of black persons who had a specific source of care was similar to that in the population as a whole, whereas the proportion was lower among Hispanics and

Figure 26. Adults with a usual source of medical care, according to selected characteristics related to year 2000 objective 21.3: United States, 1991



NOTE: Related tables in *Health, United States, 1992*, are 78–81.

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health Interview Survey.

low-income people. Information on degrees awarded to minorities in the health professions for the academic year 1990–91 show slight improvements toward meeting the year 2000 target (21.8). The baseline for 21.1 has been revised. No baseline has been established for 21.6.

Data Issues

Years of Healthy Life

See the introduction for a discussion of years of healthy life.

Definition

Receipt of all of the screening and immunization services and at least one of the counseling services, at the appropriate interval, and as recommended by the U.S. Preventive Services Task Force is considered in objective 21.2. The recommendations vary by age, gender, and risk group; several of the objective's special population targets correspond to age groups specified by the Task Force. Questions to establish receipt of clinical preventive services among

persons 19 years of age and over were included in the Health Promotion and Disease Prevention Supplement of the 1991 NHIS and were used to establish a baseline for this objective. The supplement provides information on all of the recommended immunizations and screening components, including the history, physical examination, and laboratory and diagnostic recommendations; counseling services and specific recommendations for high risk groups are not addressed. Information was obtained on the interval since last routine check-up by a medical doctor or other health care professional and receipt of several of the recommended services at the last check-up. Questions on receipt of other recommended services, namely immunizations, pap tests, clinical breast examinations, and mammograms were asked separately. For these, respondents of appropriate age and gender were asked whether they had received the service within a specific interval, usually the interval recommended by the Task Force.

The proportion of people receiving the minimum set of recommended services at the appropriate interval is quite low; among people 65 years of age and over, no one received the complete set of preventive services. However, much larger proportions of people have received components of the recommended services, for example the history, physical examination, laboratory diagnostic procedures, and immunizations. The measure for older people may be influenced by the way the information is obtained in the NHIS supplement. Older people are likely to have more frequent visits to health professionals for various health problems, which should increase the likelihood of receiving preventive services. However, complete preventive services may not be received at the last regular check-up as specified in some of the NHIS questions.

In 1989, 16 percent of the U.S. population less than 65 years old did not have health care coverage, neither private insurance, Medicare, Medicaid, nor a military plan. This measure is used to establish a baseline for objective 21.4, financial barriers to receiving recommended clinical preventive services. However,

this only provides a partial measure for the objective since many health insurance plans do not provide full coverage for preventive health care. In 1988, 41 percent of employer-sponsored health insurance plans covered adult physical examinations, 56 percent covered well baby care, and 69 percent covered preventive diagnostic tests (2).

In 1990 people who indicated emergency rooms as the usual place they went if they were sick or needed advice about their health were included as having a usual source of care, whereas they were not included in 1991. In 1990, 0.6 percent of all people who had a usual source of care as defined above indicated a hospital emergency room as their usual source (3). This objective will continue to be monitored with the NHIS; emergency rooms as a usual source of care will be excluded from the estimates.

Comparability of Data Sources

Baseline data on the proportion of people who have a specific source of ongoing primary care were obtained from a survey conducted by the Robert Wood Johnson Foundation (4). Recent information for this objective is available from the NHIS. Some differences in this measure between the baseline and more recent years may be accounted for by differences in survey methods.

Table 21. Clinical preventive services objective status

| Objective | Baseline | | | | | Target 2000 |
|---|----------|--|------|--------|------|----------------|
| | Original | Revised | 1990 | 1991 | | |
| 21.1 Years of healthy life | 162.0 | 2, ³ 64.0 2, ³ No | --- | --- | --- | 65 |
| a. Blacks | 156.0 | change | --- | --- | --- | 60 |
| b. Hispanics | 162.0 | 2, ^{3,4} 64.8 | --- | --- | --- | 65 |
| c. People 65 years and over | 112.0 | 2, ^{3,5} 11.9 | --- | --- | --- | 414 |
| 21.2 Receipt of recommended services | ... | 6.7% | --- | --- | --- | 50% |
| a. Infants up to 24 months | ... | --- | --- | --- | --- | 90% |
| b. Children 2–12 years | ... | --- | --- | --- | --- | 80% |
| c. Adolescents 13–18 years | ... | --- | --- | --- | --- | 50% |
| d. People 19–39 years | ... | 63% | --- | --- | --- | 40% |
| e. People 40–64 years | ... | 62% | --- | --- | --- | 40% |
| f. People 65 years and over | ... | 60% | --- | --- | --- | 40% |
| g. Low-income people | ... | 6.72% | --- | --- | --- | 50% |
| h. Blacks | ... | 6.73% | --- | --- | --- | 50% |
| i. Hispanics | ... | 6.72% | --- | --- | --- | 50% |
| j. Asians/Pacific Islanders | ... | 6.73% | --- | --- | --- | 50% |
| k. American Indians/Alaska Natives | ... | 6.73% | --- | --- | --- | 70% |
| l. People with disabilities | ... | 6.71% | --- | --- | --- | 80% |
| 21.3 Access to primary care (percent with source of care) | 82% | ... | 77% | 80% | 95% | |
| a. Hispanics | 80% | ... | 64% | 64% | 95% | |
| b. Blacks | 80% | ... | 75% | 79% | 95% | |
| c. Low-income people | 80% | ... | 71% | 72% | 95% | |
| 21.4 Financial barriers to receipt of clinical preventive services | --- | ... | --- | --- | --- | 0% |
| Proportion without health care coverage | | | | | | |
| People under 65 years | ... | 916% | --- | --- | --- | ... |
| 21.5 Clinical preventive services from publicly funded programs (proportion of eligible people) | --- | ... | --- | --- | 90% | |
| Federal programs | | | | | | |
| Screening | ... | 1010–100% | --- | --- | --- | ... |
| Counseling | ... | 1040–100% | --- | --- | --- | ... |
| Immunizations | ... | 1010–96% | --- | --- | --- | ... |
| 21.6 Provision of recommended services by primary care providers | --- | ... | --- | --- | 50% | |
| 21.7 Local health department assurance of access to essential clinical preventive service | | | | | | |
| Proportion of people served | --- | ... | --- | --- | 90% | |
| Proportion of local health departments providing: | | | | | | |
| Health education | ... | 1174% | --- | --- | --- | ... |
| Child health | ... | 1184% | --- | --- | --- | ... |
| Immunizations | ... | 1192% | --- | --- | --- | ... |
| Prenatal care | ... | 1159% | --- | --- | --- | ... |
| Primary care | ... | 1122% | --- | --- | --- | ... |
| 21.8 Racial/ethnic minority representation in the health professions | | | | | | |
| Degrees Awarded To: | | | | | | |
| Blacks | 125.0% | ... | --- | 135.7% | 8.0% | |
| Hispanics | 123.0% | ... | --- | 134.3% | 6.4% | |
| American Indians/Alaska Natives | 120.3% | ... | --- | 130.4% | 0.6% | |

¹1980 data.

²1990 data.

³Data have been revised to reflect updated methodology; see Introduction.

⁴Estimate based on preliminary data.

⁵Years of healthy life remaining at age 65.

⁶1991 data.

⁷Among people 19 years and over.

⁸1986 data.

⁹1989 data.

¹⁰1991–92 data.

¹¹1990 data.

¹²1985–86 data.

¹³Academic year 1990–91.

NOTE: Data sources are in table C.

Clinical Preventive Services Objectives

21.1*: Increase years of healthy life to at least 65 years.

NOTE: Years of healthy life is a summary measure of health that combines mortality (quantity of life) and morbidity and disability (quality of life) into a single measure. For people aged 65 and older, active life-expectancy, a related summary measure, also will be tracked.

Duplicate objectives: 8.1 and 17.1

21.1a*: Increase years of healthy life among blacks to at least 60 years.

Duplicate objectives: 8.1 and 17.1a

21.1b*: Increase years of healthy life among Hispanics to at least 65 years.

Duplicate objectives: 8.1b and 17.1b

21.1c*: Increase years of healthy life among people aged 65 and older to at least 14 years remaining.

Duplicate objectives: 8.1c and 17.1c

21.2: Increase to at least 50 percent the proportion of people who have received, as a minimum within the appropriate interval, all of the screening and immunization services and at least one of the counseling services appropriate for their age and gender as recommended by the U.S. Preventive Services Task Force.

21.2a: Increase to at least 90 percent the proportion of infants up to 24 months who have received, as a minimum within the appropriate interval, all of the screening and immunization services and at least one of the counseling services appropriate for their age and gender as recommended by the U.S. Preventive Services Task Force.

21.2b: Increase to at least 80 percent the proportion of children aged 2–12 who have received, as a minimum within the appropriate interval, all of the screening and immunization services and at least one of the counseling services appropriate for their age and gender as recommended by the U.S. Preventive Services Task Force.

21.2c: Increase to at least 50 percent the proportion of adolescents aged 13–18 who have received, as a minimum within the appropriate interval, all of the screening and immunization services and at least one of the counseling services appropriate for their age and gender as recommended by the U.S. Preventive Services Task Force.

21.2d: Increase to at least 40 percent the proportion of adults aged 19–39 who have received, as a minimum within the appropriate interval, all of the screening and immunization services and at least one of the counseling services appropriate for their age and gender as recommended by the U.S. Preventive Services Task Force.

21.2e: Increase to at least 40 percent the proportion of adults aged 40–64 who have received, as a minimum within the appropriate interval, all of the screening and immunization services and at least one of the counseling services appropriate for their age and gender as recommended by the U.S. Preventive Services Task Force.

21.2f: Increase to at least 40 percent the proportion of adults aged 65 and older who have received, as a minimum within the appropriate interval, all of the screening and immunization services and at least one of the counseling services appropriate for their age and gender as recommended by the U.S. Preventive Services Task Force.

21.2g: Increase to at least 50 percent the proportion of low-income people who have received, as a minimum within the appropriate interval, all of the screening and immunization services and at least one of the counseling

services appropriate for their age and gender as recommended by the U.S. Preventive Services Task Force.

21.2h: Increase to at least 50 percent the proportion of blacks who have received, as a minimum within the appropriate interval, all of the screening and immunization services and at least one of the counseling services appropriate for their age and gender as recommended by the U.S. Preventive Services Task Force.

21.2i: Increase to at least 50 percent the proportion of Hispanics who have received, as a minimum within the appropriate interval, all of the screening and immunization services and at least one of the counseling services appropriate for their age and gender as recommended by the U.S. Preventive Services Task Force.

21.2j: Increase to at least 50 percent the proportion of Asians and Pacific Islanders who have received, as a minimum within the appropriate interval, all of the screening and immunization services and at least one of the counseling services appropriate for their age and gender as recommended by the U.S. Preventive Services Task Force.

21.2k: Increase to at least 70 percent the proportion of American Indians and Alaska Natives who have received, as a minimum within the appropriate interval, all of the screening and immunization services and at least one of the counseling services appropriate for their age and gender as recommended by the U.S. Preventive Services Task Force.

21.2l: Increase to at least 80 percent the proportion of people with disabilities who have received, as a minimum within the appropriate interval, all of the screening and immunization services and at least one of the counseling services appropriate for their age and gender as recommended by the U.S. Preventive Services Task Force.

21.3: Increase to at least 95 percent the proportion of people who have a specific source of ongoing primary care for coordination of their preventive and episodic health care.

21.3a: Increase to at least 95 percent the proportion of Hispanics who have a specific source of ongoing primary care for coordination of their preventive and episodic healthcare.

21.3b: Increase to at least 95 percent the proportion of blacks who have a specific source of ongoing primary care for coordination of their preventive and episodic health care.

21.3c: Increase to at least 95 percent the proportion of low-income people who have a specific source of ongoing primary care for coordination of their preventive and episodic health care.

21.4: Improve financing and delivery of clinical preventive services so that virtually no American has a financial barrier to receiving, at a minimum, the screening, counseling, and immunization services recommended by the U.S. Preventive Services Task Force.

21.5: Assure that at least 90 percent of people for whom primary care services are provided directly by publicly funded programs are offered, at a minimum, the screening, counseling, and immunization services recommended by the U.S. Preventive Services Task force.

NOTE: Publicly funded programs that provide primary care services directly include federally funded programs such as the Maternal and Child Health Program, Community and Migrant Health Centers, and the Indian Health Service as well as primary care service settings funded by State and local governments. This objective does not include services covered indirectly through the Medicare and Medicaid programs.

21.6: Increase to at least 50 percent the proportion of primary care providers who provide their patients with the screening, counseling, and immunization services recommended by the U.S. Preventive Services Task Force.

21.7: Increase to at least 90 percent the proportion of people who are served by a local health department that assesses and assures access to essential clinical preventive services.

NOTE: Local health department refers to any local component of the public health system, defined as an administrative and service unit of local or State government concerned with health and carrying some responsibility for the health of a jurisdiction smaller than a State.

21.8: Increase the proportion of all degrees in the health professions and allied and associated health profession fields awarded to members of underrepresented racial and ethnic minority groups as follows:

2000 Target (percent)

| | |
|-------------------------------------|-----|
| Blacks | 8.0 |
| Hispanics | 6.4 |
| American Indians and Alaska Natives | 0.6 |

*Duplicate objective.

References

1. U.S. Preventive Services Task Force. Guide to clinical preventive services: An assessment of the effectiveness of 169 interventions. Report of the U.S. Preventive Services Task Force. Baltimore, Maryland: Williams and Wilkins. 1989.
2. Health Insurance Association of America. Research bulletin: A profile of employer-sponsored group health insurance. Washington: The Association. 1989.
3. Unpublished data, 1990 National Health Interview Survey.
4. The Robert Wood Johnson Foundation. Access to health care in the United States: Results of a 1986 survey. Special Report Number Two/1987. Princeton, New Jersey: The Foundation. 1987.

Priority Area 22

Surveillance and Data Systems

Public health surveillance is the systematic collection, analysis, and use of health information.

Surveillance is essential to understanding the health status of a population and planning effective prevention programs. The Institute of Medicine identified this assessment activity as one of the core functions of public health (1).

Surveillance is critical in all health agencies: federal, State, and local. State and local data are needed to assess health needs and to implement and evaluate community health programs. Achievement of the year 2000 objectives depends in part on our ability to monitor and compare progress toward the objectives at all levels of government.

We must also be able to measure the health status of special populations. Morbidity, mortality, health behaviors, access to and use of health services vary markedly by age, race, gender, and socio-economic status. Therefore, many of the objectives throughout Healthy People 2000 are targeted toward racial and ethnic minorities, elderly people, and people with chronic disabilities.

Some important health issues could not be addressed in the year 2000 objectives since national data to accurately characterize the problems were unavailable. The lack of data at the State and local levels are even greater concerns. Thus, several objectives in priority area 22 are directed toward enhancing data systems in States and communities. Similarly, objectives address the identification of and response to data gaps related to minorities and other special populations.

The first part of objective 22.1, development of Health Status Indicators, has been achieved. The consensus set of 18 indicators was published in July 1991 (2). National data for the Health Status Indicators were published in October 1992 (3). A summary of the national data for the Health Status Indicators is shown

in table D. The achievement of the other part of this objective will be measured by tracking the use of the indicators by State and local health departments.

Work has begun on the remainder of the objectives in priority area 22. Objective 22.2 is close to being achieved. The Centers for Disease Control and Prevention (CDC) has expanded its role in supporting State assessment activities related to the year 2000 objectives. As this *Healthy People 2000 Review* demonstrates, the Department of Health and Human Services is committed to tracking the course of each priority area.

Table 22. Surveillance and data systems objective status

| Objective | 1989 baseline | | 1990 | 1991 | Target 2000 |
|--|---------------|----------------------------------|------|------------------|----------------|
| | Original | Revised | | | |
| 22.1 Health status indicators | | | | | |
| Develop | ... | ¹ Indicators selected | --- | --- | ... |
| Establish use (number of States) | --- | ... | --- | --- | 40 |
| Monitoring some indicators | ... | ² 48 | --- | --- | ... |
| Providing HSI data to local health departments | ... | ² 36 | --- | --- | ... |
| 22.2 National data sources | 377% | ... | --- | ² 99% | 100% |
| a. State level data for at least two-thirds of the objectives (number of States) | 23 | ¹ 22 | --- | ² 26 | 35 |
| 22.3 Comparable data collection procedures | | | | | |
| Federal, State, and local agencies | ... | ³ 12% | --- | ² 14% | 100% |
| 22.4 Gaps in health data | | | | | |
| Identify | --- | ... | --- | --- | 100% |
| Establish mechanisms to meet needs | --- | ... | --- | --- | 100% |
| 22.5 Periodic analysis and publication of data (number of States) | 20 | ... | --- | --- | 50 |
| a. Analysis for racial and ethnic groups (number of States) | ... | ² ,419 | --- | --- | 25 |
| 22.6 Number of States with data transfer systems | 30 | ... | --- | --- | 50 |
| National Electronic Telecommunications System for Surveillance (NETSS) | ... | ² 50 | --- | --- | ... |
| Public Health Laboratory Information System (PHLIS) | ... | ² 37% | --- | --- | ... |
| 22.7 Timely release of national data | --- | ... | --- | --- | 100% |
| 1991–92 data | ... | ² 38% | --- | --- | ... |
| 1990 data | ... | ² 23% | --- | --- | ... |

¹1991 data.

²1992 data.

³1990 data.

⁴27 States have at least one racial/ethnic group comprising at least 10 percent of their population; 19 published vital statistics data for these racial/ethnic groups.

NOTE: Data sources are in table C.

Surveillance and Data Systems Objectives

22.1: Develop a set of health status indicators appropriate for Federal, State, and local health agencies, and establish use of the set in at least 40 States.

22.2: Identify, and create where necessary, national data sources to measure progress toward each of the year 2000 national health objectives.

22.2a: Identify, and create where necessary, State level data for at least two-thirds of the objectives in at least 35 States.

22.3: Develop and disseminate among Federal, State, and local agencies procedures for collecting comparable data for each of the year 2000 national health objectives and incorporate these into Public Health Service data collection systems.

22.4: Develop and implement a national process to identify significant gaps in the nation's disease prevention and health promotion data, including data for racial and ethnic minorities, people with low incomes, and people with disabilities, and establish mechanisms to meet these needs.

NOTE: Disease prevention and health promotion data include disease status, risk factors, and services receipt data. Public health problems include such issue areas as HIV infection, domestic violence, mental health, environmental health, occupational health, and disabling conditions.

22.5: Implement in all States periodic analysis and publication of data needed to measure progress toward objectives for at least 10 of the priority areas of the national health objectives.

NOTE: Periodic is at least once every 3 years. Objectives include, at a minimum, one from each objectives category: health status, risk reduction, and services and protection.

22.5a: Implement in at least 25 States periodic analysis and publication of data needed to measure State progress toward the national health objectives for each racial or ethnic group that makes up at least 10 percent of the State population.

22.6: Expand in all States systems for the transfer of health information related to the national health objectives among Federal, State, and local agencies.

NOTE: Information related to the national health objectives includes State and national level baseline data, disease prevention and health promotion evaluation results, and data generated to measure progress.

22.7: Achieve timely release of national surveillance and survey data needed by health professionals and agencies to measure progress toward the national health objectives.

NOTE: Timely release (publication of provisional or final data or public use data tapes) should be based on the use of the data, but is at least within one year of the end of data collection.

References

1. Institute of Medicine. The future of public health. Washington: National Academy Press. 1988.
2. Centers for Disease Control. Consensus set of health indicators for the general assessment of community health status, United States. MMWR 40(27) 449–51. 1991.
3. Klein RJ, Hawk SA. Health status indicators: Definitions and national data. Statistical notes; vol 1 no 3. Hyattsville, Maryland: National Center for Health Statistics. 1992.

Table A. Priority area lead agencies

| | <i>Priority area</i> | <i>Lead agency</i> |
|----|---|--|
| 01 | Physical Activity and Fitness | President's Council on Physical Fitness and Sports |
| 02 | Nutrition | National Institutes of Health Food and Drug Administration |
| 03 | Tobacco | Centers for Disease Control and Prevention |
| 04 | Alcohol and Other Drugs | Substance Abuse and Mental Health Services Administration |
| 05 | Family Planning | Office of Population Affairs |
| 06 | Mental Health and Mental Disorders | Substance Abuse and Mental Health Services Administration |
| 07 | Violent and Abusive Behavior | Centers for Disease Control and Prevention |
| 08 | Educational and Community-Based Programs | Centers for Disease Control and Prevention Health Resources and Services Administration |
| 09 | Unintentional Injuries | Centers for Disease Control and Prevention |
| 10 | Occupational Safety and Health | Centers for Disease Control and Prevention |
| 11 | Environmental Health | National Institutes of Health Centers for Disease Control and Prevention |
| 12 | Food and Drug Safety | Food and Drug Administration |
| 13 | Oral Health | National Institutes of Health Centers for Disease Control and Prevention |
| 14 | Maternal and Infant Health | Health Resources and Services Administration |
| 15 | Heart Disease and Stroke | National Institutes of Health |
| 16 | Cancer | National Institutes of Health |
| 17 | Diabetes and Chronic Disabling Conditions | National Institutes of Health Centers for Disease Control and Prevention |
| 18 | HIV Infection | National AIDS Program Office |
| 19 | Sexually Transmitted Diseases | Centers for Disease Control and Prevention |
| 20 | Immunization and Infectious Diseases | Centers for Disease Control and Prevention |
| 21 | Clinical Preventive Services | Health Resources and Services Administration Centers for Disease Control and Prevention |
| 22 | Surveillance and Data Systems | Centers for Disease Control and Prevention |

Table B. Mortality objective cause-of-death categories

| Objective number | Healthy People 2000 | | Mortality tabulation lists | |
|------------------|---------------------------------------|--|---|--------------------------------|
| | Cause of death ¹ | ICD-9 identifying codes | Cause of death | ICD-9 identifying codes |
| 1.1 | Coronary Heart Disease | 410–414, 402, 429.2 | Diseases of heart | 390–398, 402, 404–429, 410–414 |
| 1.1a | [Blacks] | | | |
| 2.1 | See 1.1 | | | |
| 2.1a | See 1.1a | | | |
| 2.2 | Cancer (all sites) | 140–208 | Malignant neoplasms, including neoplasms of lymphatic hematopoietic tissues | (Same as HP2000) |
| 3.1 | See 1.1 | | | |
| 3.1a | See 1.1a | | | |
| 3.2 | Lung cancer | 162.2–162.9 | Malignant neoplasms of trachea, bronchus and lung | 162 |
| 3.3 | Chronic obstructive pulmonary disease | 490–496 | Chronic obstructive pulmonary diseases and allied conditions | (Same as HP2000) |
| 4.1 | Alcohol-related motor vehicle crashes | E810–E819 ² | No comparable category | ... |
| 4.1a | [American Indians/Alaska Natives] | | | |
| 4.1b | [Ages 15–24] | | | |
| 4.2 | Cirrhosis | 571 | Chronic liver disease and cirrhosis | (Same as HP2000) |
| 4.2a | [Black males] | | | |
| 4.2b | [American Indians/Alaska Natives] | | | |
| 4.3 | Drug-related deaths | 292, 304, 305.2–305.9, E850–E858, E950.0–E950.5, E962.0, E980.0–E980.5 | Drug induced causes | (Same as HP2000) |
| 6.1 | Suicides | E950–E959 | (Same as HP2000) | (Same as HP2000) |
| 6.1a | [Ages 15–19] | | | |
| 6.1b | [Males 20–34] | | | |
| 6.1c | [White males 65 and older] | | | |
| 6.1d | [American Indian/Alaska Native males] | | | |
| 7.1 | Homicides | E960–E969 | Homicide and legal intervention | E960–E978 |
| 7.1a | [Children 0–3] | | | |
| 7.1b | [Spouses 15–34] | | | |
| 7.1c | [Black males 15–34] | | | |
| 7.1d | [Hispanic males 15–34] | | | |
| 7.1e | [Black females 15–34] | | | |
| 7.1f | [American Indians/Alaska Natives] | | | |
| 7.2 | See 6.1 | | | |
| 7.2a | See 6.1a | | | |
| 7.2b | See 6.1b | | | |
| 7.2c | See 6.1c | | | |
| 7.2d | See 6.1d | | | |

Table B. Mortality objective cause-of-death categories—Con.

| Objective number | Healthy People 2000 | | Mortality tabulation lists | |
|------------------|---------------------------------------|---|--|-------------------------|
| | Cause of death ¹ | ICD-9 identifying codes | Cause of death | ICD-9 identifying codes |
| 7.3 | Firearm injuries | E922.0–E922.3, E922.8–E922.9, E955.0–E955.4, E965.0–E965.4, E970, E985.0–E985.4 | No comparable category | ... |
| | Knife injuries | E920.3, E956, E966 E986, E974 | No comparable category | ... |
| 9.1 | Unintentional injuries | E800–E949 | Accidents and adverse effects | (Same as HP2000) |
| 9.1a | [American Indians/Alaska Natives] | | | |
| 9.1b | [Black males] | | | |
| 9.1c | [White males] | | | |
| 9.3 | Motor vehicle crashes | E810–E825 | Motor vehicle accidents | (Same as HP2000) |
| 9.3a | [Ages 14 and younger] | | | |
| 9.3b | [Ages 15–24] | | | |
| 9.3c | [Ages 70 and older] | | | |
| 9.3d | [American Indians/Alaska Natives] | | | |
| 9.3e | [Motorcyclists] | | | |
| 9.3f | [Pedestrians] | | | |
| 9.4 | Falls and fall-related injuries | E880–E888 | Accidental falls | (Same as HP2000) |
| 9.4a | [Ages 65–84] | | | |
| 9.4b | [Ages 85 +] | | | |
| 9.4c | [Black males 30–69] | | | |
| 9.5 | Drowning | E830, E832, E910 | Accidental drowning and submersion | E910 |
| 9.5a | [Ages 0–4] | | | |
| 9.5b | [Males 15–34] | | | |
| 9.5c | [Black males] | | | |
| 9.6 | Residential fires | E890–E899 | Accidents caused by fire and flames (place of accident-home) | (Same as HP2000) |
| 9.6a | [Ages 0–4] | | | |
| 9.6b | [Ages 65 and older] | | | |
| 9.6c | [Black males] | | | |
| 9.6d | [Black females] | | | |
| 10.1 | Work-related injuries ³ | E800–E999 | No comparable category | ... |
| 10.1a | [Mine workers] | | | |
| 10.1b | [Construction workers] | | | |
| 10.1c | [Transportation workers] | | | |
| 10.1d | [Farm workers] | | | |
| 13.7 | Cancer of the oral cavity and pharynx | 140–149 | Malignant neoplasms of lip, oral cavity, and pharynx | (Same as HP2000) |
| 14.3 | Maternal mortality | 630–676 | Complications of pregnancy, childbirth, and the puerperium or maternal mortality | (Same as HP2000) |
| 14.3a | [Blacks] | | | |

| | | | | |
|-------|---|------------------------------|--|------------------|
| 15.1 | See 1.1 | | | |
| 15.1a | See 1.1a | | | |
| 15.2 | Stroke | 430–438 | Cerebrovascular diseases | (Same as HP2000) |
| 15.2a | [Blacks] | See 2.2 | | |
| 16.1 | See 2.2 | | | |
| 16.2 | See 3.2 | | | |
| 16.3 | Breast cancer in women | 174 | Malignant neoplasm of female breast | (Same as HP2000) |
| 16.4 | Cancer of the uterine cervix | 180 | Malignant neoplasm of cervix uteri | (Same as HP2000) |
| 16.5 | Colorectal cancer | 153.0–154.3, 154.8, 159.0 | Malignant neoplasms of colon, rectum, rectosigmoid junction, and anus | 153, 154 |
| 16.5 | Colorectal cancer | 153.0–154.3, 154.8, 159.0 | Malignant neoplasms of colon, rectum, rectosigmoid junction, and anus | 153, 154 |
| 17.9 | Diabetes-related deaths ³ | 250 | Diabetes mellitus ¹ | (Same as HP2000) |
| 17.9a | [Blacks] | | | |
| 17.9b | [American Indians/Alaska Natives] | | | |
| 20.2 | Epidemic-related pneumonia and influenza deaths for ages 65 and over | 480–487 | No comparable category | ... |

¹Healthy People 2000 uses multiple-cause-of-death data.

²Includes only those deaths assigned to E810–E819 that were alcohol related; see Priority Area 4, Alcohol and Other Drugs.

³Unless otherwise specified, Healthy People 2000 uses underlying-cause-of-death data.

Table C. Data sources for the Healthy People 2000 objectives and subobjectives

[*Indicates duplicate objective]

| <i>Priority area</i> | <i>Objective number</i> | <i>Data source</i> |
|----------------------|-------------------------|--|
| Physical Activity | 1.1*, 1.1a | National Vital Statistics System, CDC, NCHS. |
| | 1.2*, 1.2a,b | Baseline: National Health and Nutrition Examination Survey, CDC, NCHS. Updates: National Health Interview Survey, CDC, NCHS. |
| | 1.2c | Baseline: Hispanic Health and Nutrition Examination Survey, CDC, NCHS. Updates: National Health Interview Survey, CDC, NCHS. |
| | 1.2d | Baseline: Indian Health Service, Office of Planning, Evaluation, and Legislation, Program Statistics Division. Updates: National Health Interview Survey, CDC, NCHS. |
| | 1.2e | National Health Interview Survey, CDC, NCHS. |
| | 1.2f,g | National Health and Nutrition Examination Survey, CDC, NCHS. |
| | 1.3* | Original baseline: Behavioral Risk Factor Surveillance System, CDC, NCCDPHP. National Health Interview Survey, CDC, NCHS. |
| | 1.4 | Baseline: For ages 10–17, National Children and Youth Fitness Study I, OASH, ODPHP. Updates: For grades 9–12, Youth Risk Behavior Survey, CDC, NCCDPHP. For ages 18 and over, National Health Interview Survey, CDC, NCHS. |
| | 1.4a | National Health Interview Survey, CDC, NCHS. |
| | 1.5, 1.5a–c | National Health Interview Survey, CDC, NCHS. |
| | 1.6 | National Health Interview Survey, CDC, NCHS. |
| | 1.7* | Youth Risk Behavior Survey, CDC, NCCDPHP |
| Nutrition | 1.8 | National Health Interview Survey, CDC, NCHS. Baseline for grades 5–12: National Children and Youth Fitness Study I, OASH, ODPHP. Baseline for grades 1–4: National Children and Youth Fitness Study II, OASH, ODPHP. |
| | 1.9 | Update: Youth Risk Behavior Survey, CDC, NCCDPHP. Baseline: Siedentop D. <i>Developing Teaching Skills in Physical Education</i> . Palo Alto, Ca: Mayfield. 1983. |
| | 1.10 | Update: Youth Risk Behavior Survey, CDC, NCCDPHP. National Survey of Worksite Health Promotion Activities, OASH, ODPHP. |
| | 1.11 | Baseline: McDonald BL and Cordell HK. <i>Local Opportunities for Americans: Final Report of the Municipal and County Park and Recreation Study</i> , Alexandria, Va: National Recreation and Park Association, 1988. |
| | 1.12 | Baseline: 1988 American College of Physicians Membership Survey of Prevention Practices in Adult Medicine. Updates: Primary Care Providers Survey, OASH, ODPHP. |
| | 2.1*, 2.1a | National Vital Statistics System, CDC, NCHS. |
| | 2.2* | National Vital Statistics System, CDC, NCHS. |
| | 2.3*, 2.3a,b | Baseline: National Health and Nutrition Examination Survey, CDC, NCHS. Updates: National Health Interview Survey, CDC, NCHS. |
| | 2.3c | Baseline: Hispanic Health and Nutrition Examination Survey, CDC, NCHS. Updates: National Health Interview Survey, CDC, NCHS. |
| | 2.3d | Baseline: Indian Health Service, Office of Planning, Evaluation, and Legislation, Program Statistics Division. Updates: National Health Interview Survey, CDC, NCHS. |
| | 2.3e | National Health Interview Survey, CDC, NCHS. |
| | 2.3f,g | National Health and Nutrition Examination Survey, CDC, NCHS. |
| | 2.4, 2.4a–e | Pediatric Nutrition Surveillance System, CDC, NCCDPHP. |

Table C. Data sources for the Healthy People 2000 objectives and subobjectives—Con.

[*Indicates duplicate objective]

| <i>Priority area</i> | <i>Objective number</i> | <i>Data source</i> |
|----------------------|-------------------------|---|
| Tobacco | 2.5* | Baseline: National Health and Nutrition Examination Survey, CDC, NCHS. Continuing Survey of Food Intakes by Individuals, USDA. 1989 Update: Continuing Survey of Food Intakes by Individuals, USDA. |
| | 2.6* | Continuing Survey of Food Intakes by Individuals, USDA. |
| | 2.7* | National Health Interview Survey, CDC, NCHS. |
| | 2.8 | Baseline: Continuing Survey of Food Intakes by Individuals, USDA. |
| | 2.9 | National Health and Nutrition Examination Survey III (Future). |
| | 2.10, 2.10a–c | 1985 Baseline: Continuing Survey of Food Intakes by Individuals, USDA. 1988 Baseline: Health and Diet Survey, FDA. |
| | 2.10d | 1991 Updates: National Health Interview Survey, CDC, NCHS. |
| | 2.10e | National Health and Nutrition Examination Survey, CDC, NCHS. |
| | 2.11* | Survey of American Indians/Alaska Natives, CDC and Indian Health Service, Office of Planning, Evaluation, and Legislation, Program Statistics Division. |
| | 2.11a–d | Pregnancy Nutrition Surveillance System, CDC, NCCDPHP. |
| | 2.12*, 2.12a | Ross Laboratories Mothers Survey. |
| | 2.12b | Pediatric Nutrition Surveillance System, CDC, NCCDPHP. |
| | 2.13 | National Health Interview Survey, CDC, NCHS. |
| | 2.14 | Baseline: 1990 Baby Bottle Tooth Decay 5-Year Evaluation Report, Indian Health Service, Dental Services Branch. |
| | 2.15 | Health and Diet Survey, FDA. |
| | 2.16 | Food Label and Package Survey, FDA. |
| | 2.17 | Fresh Fruit and Produce Survey, FDA (Future). |
| | 2.18 | Nielsen Company National Scantrack. |
| | 2.19 | Survey of Chain Operators, National Restaurant Association. |
| | 2.20 | School Nutrition Dietary Assessment, USDA (Future). |
| | 2.21 | National Health Interview Survey, CDC, NCHS. |
| | 3.1*, 3.1a | National Survey of School Health Education Activities, CDC, NCCDPHP (Future). |
| | 3.2* | National Survey of Worksite Health Promotion Activities, OASH, ODPHP. |
| | 3.3 | Primary Care Providers Survey, OASH, ODPHP. |
| | 3.4*, 3.4a,b,d,h,i | National Vital Statistics System, CDC, NCHS. |
| | 3.4c | National Vital Statistics System, CDC, NCHS. |
| | 3.4e | National Health Interview Survey, CDC, NCHS. |
| | 3.4f | Worldwide Survey of Substance Abuse and Health Behaviors Among Military Personnel, DOD, OASD. |
| | 3.4g | Baseline: Hispanic Health and Nutrition Examination Survey CDC, NCHS. |
| | 3.4j | Updates: National Health Interview Survey, CDC, NCHS. |
| | 3.5,3.5a | Baseline: CDC, 1987. |
| | | Baseline: Local Surveys. |
| | | Update: Jenkins CH. Cancer risks and prevention practices among Vietnamese refugees. Western J of Med 153:34-9. 1990. |
| | | Behavioral Risk Factor Surveillance System, CDC, NCCDPHP. |
| | | National Health Interview Survey, CDC, NCHS. |

Table C. Data sources for the Healthy People 2000 objectives and subobjectives—Con.

[*Indicates duplicate objective]

| <i>Priority area</i> | <i>Objective number</i> | <i>Data source</i> |
|-------------------------|-------------------------|--|
| | 3.6 | Baseline: Adult Use of Tobacco Survey, CDC, NCCDPHP. Updates: National Health Interview Survey, CDC, NCHS. |
| | 3.7, 3.7a | National Health Interview Survey, CDC, NCHS. |
| | 3.8 | Baseline: Adult Use of Tobacco Survey, CDC, NCCDPHP. Updates: National Health Interview Survey, CDC, NCHS (Future). |
| | 3.9 | For males 18–24 years of age, National Health Interview Survey, CDC, NCHS. For males 12–17 years of age, National Household Survey on Drug Abuse, SAMHSA. |
| | 3.9a | Baseline: National Medical Expenditure Survey of American Indians/Alaska Natives, PHS, NCHSR. Updates: National Health Interview Survey, CDC, NCHS. |
| | 3.10 | National Survey of School Districts' Nonsmoking Policies, NSBA, ACS, ALA, and AHA. |
| | 3.11 | For worksites with 50 or more employees, National Survey of Worksite Health Promotion Activities, OASH, ODPHP. |
| | 3.12 | For medium and large companies, Nationwide Survey on Smoking in the Workplace, CDC, OSH; Bureau of National Affairs; American Society for Personnel Administration. Baseline: State Legislative Action on Tobacco Issues, PHF. |
| | 3.13 | Updates: Office on Smoking and Health Legislative Tracking, CDC, NCCDPHP. Baseline: Association of State and Territorial Health Officials Reporting System: Cancer and Cardiovascular Diseases Survey, PHF. Updates: Office on Smoking and Health Legislative Tracking, CDC, NCCDPHP. |
| | 3.14 | Baseline: Association of State and Territorial Health Officials Reporting System: Cancer and Cardiovascular Diseases Survey, PHF; Updates: Association of State and Territorial Health Officials Survey of State Tobacco Prevention and Control Activities (Future); Office on Smoking and Health Legislative Tracking, CDC, NCCDPHP (Future). |
| | 3.15 | Baseline: Federal Trade Commission data reported by Office on Smoking and Health, CDC, NCCDPHP. Updates: Association of State and Territorial Health Officials Reporting System: Cancer and Cardiovascular Diseases Survey, PHF (Future). |
| | 3.16 | Baseline for Internists: Wells, et al. <i>Physicians Practice Study</i> , AJPH 76:1009–13. 1986. Baseline for dentists: Secker-Walker, et al. <i>Statewide Survey of Dentists' Smoking Cessation Advice</i> . JADA 118:37–40. 1989. Updates: Primary Care Providers Survey, OASH, ODPHP (Future). |
| Alcohol and Other Drugs | 4.1, 4.1a–b | Fatal Accident Reporting System, NHTSA. |
| | 4.2, 4.2a–b | National Vital Statistics System, CDC, NCHS. |
| | 4.3 | Indian Health Service Administrative Statistics, IHS. |
| | 4.4 | National Vital Statistics System, CDC, NCHS. |
| | 4.5 | Drug Abuse Warning Network, SAMHSA, OAS. |
| | 4.6 | National Household Survey of Drug Abuse, SAMHSA, OAS. |
| | 4.7 | Monitoring the Future (High School Senior Survey), NIH, NIDA. |

Table C. Data sources for the Healthy People 2000 objectives and subobjectives—Con.

[*Indicates duplicate objective]

| <i>Priority area</i> | <i>Objective number</i> | <i>Data source</i> |
|----------------------|-------------------------|--|
| | 4.8 | Alcohol Epidemiology Data System, NIH, NIAAA. |
| | 4.9 | Monitoring the Future (High School Senior Survey), NIH, NIDA. |
| | 4.10 | Monitoring the Future (High School Senior Survey), NIH, NIDA. |
| | 4.11 | Monitoring the Future (High School Senior Survey), NIH, NIDA. |
| | 4.12 | State Substance Abuse Services Plans, SAMHSA, CSAT (Future). |
| | 4.13 | <i>Report to Congress and the White House on the Nature and Effectiveness of Federal, State, and Local Drug Prevention Education Programs.</i> U.S. Department of Education. 1987. |
| | 4.14 | National Survey of Worksite Health Promotion Activities, OASH, ODPHP. |
| | 4.15 | Office of Alcohol and State Programs, NHTSA. |
| | 4.16 | Substance Abuse Block Grant Program, SAMHSA, CSAP, CSAT (Future). |
| | 4.17 | Substance Abuse Block Grant Program, SAMHSA, CSAP, CSAT (Future). |
| | 4.18 | Office of Alcohol and State Programs, NHTSA (Future). |
| | 4.19 | Primary Care Providers Survey, OASH, ODHPH (Future). |
| Family Planning | 5.1, 5.1a,b | Abortion Provider Survey, Alan Guttmacher Institute. 1989. |
| | | National Vital Statistics System, CDC, NCHS. |
| | | National Survey of Family Growth, CDC, NCHS. |
| | 5.2, 5.2a | Baseline: National Survey of Family Growth, CDC, NCHS. Updates: National Survey of Family Growth, Telephone Reinterview, CDC, NCHS (Future). Pregnancy Risk Assessment Monitoring System, CDC (Future). |
| | 5.3, 5.3a,b | Baseline: National Survey of Family Growth, CDC, NCHS. Updates: National Survey of Family Growth, Telephone Reinterview, CDC, NCHS (Future). |
| | 5.4* | Baseline: National Survey of Family Growth, CDC, NCHS. National Survey of Adolescent Males, NIH, NICHD. Updates: Youth Risk Behavior Survey, CDC, NCCDPHP. |
| | 5.5 | Baseline: National Survey of Family Growth, CDC, NCHS. Youth Risk Behavior Survey, CDC, NCCDPHP. |
| | 5.6 | Baseline: National Survey of Family Growth, CDC, NCHS. Youth Risk Behavior Survey, CDC, NCCDPHP. |
| | 5.7 | National Survey of Adolescent Males, NIH, NICHD. Baseline: Forrest, TD and Singh S. Public Sector Savings Resulting from Expenditures for Contraceptive Services. <i>Family Planning Perspectives</i> 22(1):6–15. 1990. Updates: National Survey of Family Growth, CDC, NCHS (Future). Pregnancy Risk Assessment Monitoring System, CDC, NCCDPHP (Future). |
| | 5.8 | National Survey of Adolescent Males, NIH, NICHD (Future). Baseline: Planned Parenthood Federation of America, Inc., 1986. Update: National Survey of Family Growth, CDC, NCHS (Future). National Survey of Adolescent Males, NIH, NICHD (Future). |
| | 5.9 | National Health Interview Survey, CDC, NCHS (Future). Baseline: Mech EB. Unpublished. 1984. Orientation of Pregnancy Counselors Toward Adoption. |
| | 5.10* | Primary Care Providers Survey, OASH, ODHPH. |

Table C. Data sources for the Healthy People 2000 objectives and subobjectives—Con.

[*Indicates duplicate objective]

| <i>Priority area</i> | <i>Objective number</i> | <i>Data source</i> |
|------------------------------------|-------------------------|--|
| Mental Health and Mental Disorders | 5.11* | National Questionnaire on Provision of STD and HIV Services by Family Planning Clinics, PHS, OPA. |
| | 6.1*, 6.1a–d | National Vital Statistics System, CDC, NCHS. |
| | 6.2* | Indian Health Service, Office of Planning, Evaluation, and Legislation, Program Statistics Division. |
| | 6.3 | Youth Risk Behavior Survey, CDC, NCCDPHP. |
| | 6.4 | Baseline (revised): Bird HR. Estimates of the prevalence of childhood maladjustment in a community survey in Puerto Rico. Archives of Gen Psychiatry 45:1120–26. 1988. Costello EJ, et al. Psychiatric disorders in pediatric primary care: Prevalence risk factors. Archives of Gen Psychiatry 45:1107–16. 1988 Updates: Child Epidemiologic Catchment Area Studys, NIH, NIMH (Future). Baseline: Epidemiologic Catchment Area Study, NIH, NIMH. Updates: National Comorbidity Study, NIH, NIMH (Future). |
| | 6.5, 6.5a | National Health and Nutrition Examination Survey, CDC, NCHS. (Future). |
| | 6.6 | National Health Interview Survey, CDC, NCHS. |
| | 6.7 | National Institute of Mental Health Community Support Program Client Follow-Up Study, SAMHSA. Baseline: Epidemiologic Catchment Area Study, NIH NIMH. |
| | 6.8, 6.8a | Updates: National Comorbidity Survey NIH, NIMH (Future). |
| | 6.9 | National Health Interview Survey, CDC, NCHS. |
| | 6.10* | “Prevention Index,” Rodale Press, Inc. National Center on Institutions and Alternatives, CDC, NCIPC. |
| | 6.11 | National Survey of Worksite Health Promotion Activities, OASH, ODPHP. |
| | 6.12 | Baseline: National Council of Self-Help Clearinghouses and Public Health. Updates: National Network of Mutual Help Centers (Future). |
| | 6.13 | Primary Care Providers Survey, OASH, ODPHP. |
| | 6.14 | Primary Care Providers Survey, OASH, ODPHP. |
| Violent and Abusive Behavior | 7.1, 7.1a–e | National Vital Statistics System, CDC, NCHS. |
| | 7.1f | Indian Health Service, Office of Planning, Evaluation, and Legislation, Program Statistics Division. |
| | 7.2*, 7.2a–c | National Vital Statistics System, CDC, NCHS. |
| | 7.2d | Indian Health Service, Office of Planning, Evaluation, and Legislation, Program Statistics Division. |
| | 7.3 | National Vital Statistics System, CDC, NCHS. |
| | 7.4, 7.4a–d | National Incidence of Child Abuse and Neglect Survey, Office of Human Development, NCCAN. |
| | 7.5 | National Family Violence Survey, NIH, NIMH. |
| | 7.6 | National Crime Survey, Department of Justice, Bureau of Justice Statistics. |
| | 7.7, 7.7a | National Crime Survey, Department of Justice, Bureau of Justice Statistics. |
| | 7.8* | Youth Risk Behavior Survey, CDC, NCCDPHP. |
| | 7.9 | Youth Risk Behavior Survey, CDC, NCCDPHP. |
| | 7.10 | Youth Risk Behavior Survey, CDC, NCCDPHP. |
| | 7.11 | National Health Interview Survey, CDC, NCHS (Future). |

Table C. Data sources for the Healthy People 2000 objectives and subobjectives—Con.

[*Indicates duplicate objective]

| <i>Priority area</i> | <i>Objective number</i> | <i>Data source</i> |
|--|-------------------------|--|
| Educational and Community-Based Programs | 7.12 | Joint Accreditation Survey, Joint Commission on the Accreditation of Healthcare Organizations (Future). American Hospital Association. American Medical Association (Future). |
| | 7.13 | Baseline: Annual 50 State Survey, National Committee for Prevention of Child Abuse. Update: National Incidence of Child Abuse and Neglect Survey, Office of Human Development, NCCAN (Future). |
| | 7.14 | Annual 50 State Survey, National Committee for Prevention of Child Abuse (Future). National Incidence of Child Abuse and Neglect Survey, Office of Human Development, NCCAN (Future). |
| | 7.15 | Domestic Violence Statistical Survey, National Coalition Against Domestic Violence. |
| | 7.16 | National Survey of School Health Education Activities, CDC, NCCDPHP (Future). |
| | 7.17 | National Committee for Prevention of Child Abuse (Future). CDC, NCIPC (Future). |
| | 7.18* | National Center on Institutions and Alternatives, CDC, NCIPC. |
| | 8.1*, 8.1a–c | National Health Interview Survey, CDC, NCHS. |
| | 8.2 | National Vital Statistics System, CDC, NCHS. |
| | 8.3 | National Center for Education Statistics, National Education Goals Panel. Head Start Bureau: Administration on Children, Youth, and Families; Administration for Children and Families. |
| | 8.4 | National Survey of School Health Education Activities, CDC, NCCDPHP. |
| | 8.5 | Health Promotion on Campus Survey and Directory, American College Health Association. |
| Health Care | 8.6 | Baseline: Health Research Institute Biennial Survey, Health Research Institute. |
| | 8.7 | Baseline and Updates: National Survey of Worksite Health Promotion Activities, OASH, ODPHP. |
| | 8.8 | National Health Interview Survey, CDC, NCHS (Future). Catalog of Local Health Promotion Programs, National Elder Care Institute on Health Promotion, American Association of Retired Persons. |
| | 8.9 | State Units of Aging Reporting System, National Association of State Units of Aging. |
| | 8.10 | Baseline: Youth Risk Behavior Survey, CDC, NCCDPHP. Updates: National Health Interview Survey, CDC, NCHS (Future). |
| | 8.11 | American Hospital Association Annual Survey (Community Health Promotion Section). Public Health Impact Data Base, PHF. |
| | 8.12 | Community Demonstration Projects Review, PHS, OMH. Health Education Resource Management System, IHS. Hispanic Chronic Disease Prevention Project, National Coalition of Hispanic Health and Human Services Organizations. Bilingual Service Delivery Project, Association of State and Territorial Health Officials. |
| | | Annual Survey of Hospitals, American Hospital Association. |
| | | HMO Industry Profile, Group Health Association of America, Inc. |

Table C. Data sources for the Healthy People 2000 objectives and subobjectives – Con.

[*Indicates duplicate objective]

| <i>Priority area</i> | <i>Objective number</i> | <i>Data source</i> |
|--------------------------------|-------------------------|---|
| | 8.13 | Survey to be developed and administered by a private or voluntary partner, in cooperation with ODPHP. |
| | 8.14 | National Profile of Local Health Departments, National Association of County Health Officials. Profile of State and Territorial Public Health Systems, CDC, ASTHO. |
| Unintentional injuries | 9.1, 9.1a–c | State Mortality and Morbidity Data, CDC. National Vital Statistics System, CDC, NCHS. |
| | 9.2 | National Vital Statistics System, CDC, NCHS. |
| | 9.3, 9.3a–c,e,f | National Hospital Discharge Survey, CDC, NCHS. |
| | 9.3d | Fatal Accident Reporting System, DOT, NHTSA. |
| | 9.4, 9.4a–c | Indian Health Service, Office of Planning, Evaluation, and Legislation, Program Statistics Division. |
| | 9.5, 9.5a–c | National Vital Statistics System, CDC, NCHS. |
| | 9.6, 9.6a–d | National Vital Statistics System, CDC, NCHS. |
| | 9.6e | National Fire Incident Reporting System, FEMA, US Fire Administration. |
| | 9.7, 9.7a | National Hospital Discharge Survey, CDC, NCHS. |
| | 9.8, 9.8a | National Electronic Injury Surveillance System, Consumer Product Safety Commission, Directorate for Epidemiology. |
| | 9.9 | National Hospital Discharge Survey, CDC, NCHS. |
| | 9.10, 9.10a | National Hospital Discharge Survey, CDC, NCHS. |
| | 9.11 | National Head and Spinal Cord Injury Survey, NIH, NINCDS. |
| | 9.12, 9.12a | Baseline: 19 Cities Survey, DOT, NHTSA. Updates: Population weighted State surveys, DOT, NHTSA. |
| | 9.13 | Youth Risk Behavior Survey, CDC, NCCDPHP (Future). National Health Interview Survey, CDC, NCHS (Future). Baseline: 19 Cities Survey, DOT, NHTSA. |
| | 9.14 | Updates: Youth Risk Behavior Survey, CDC, NCCDPHP. DOT, NHTSA. |
| | 9.15 | CDC, NCIPC. |
| | 9.16 | Baseline: FEMA, US Fire Administration. Updates: International Association of Fire Chiefs (Future). |
| | 9.17 | FEMA, US Fire Administration. |
| | 9.18 | CDC, NCCDPHP. |
| | 9.19* | CDC, NCPS. NIH, NIDR. |
| | 9.20 | DOT, FHA. |
| | 9.21 | Primary Care Providers Survey, OASH, ODPHP. |
| | 9.22 | CDC, NCIPC. |
| Occupational Safety and Health | 10.1, 10.1a–d | Annual Survey of Occupational Injuries and Illnesses, DOL, BLS. |
| | 10.2, 10.2a,b | Annual Survey of Occupational Injuries and Illnesses, DOL, BLS. |
| | 10.3 | Annual Survey of Occupational Injuries and Illnesses, DOL, BLS. |
| | 10.4 | Annual Survey of Occupational Injuries and Illnesses, DOL, BLS. |
| | 10.5* | Viral Hepatitis Surveillance System, CDC, NCID. |
| | 10.6 | National Survey of Worksite Health Promotion Activities, OASH, ODPHP. |
| | 10.7 | Occupational Hearing Conservation Database, CDC, NIOSH (Future). |
| | 10.8 | Adult Elevated Blood Lead Level Registries, CDC, NIOSH. |
| | 10.9* | Regulatory Impact Analysis of OSHA Final Rule on Occupational Exposure to Bloodborne Pathogens, DOL, OSHA, ORA. |

Table C. Data sources for the Healthy People 2000 objectives and subobjectives—Con.

[*Indicates duplicate objective]

| <i>Priority area</i> | <i>Objective number</i> | <i>Data source</i> |
|----------------------|-------------------------|--|
| Environmental Health | 10.10 | Association of State and Territorial Health Officials Reporting System: Unintentional Injuries Survey, PHF. |
| | 10.11 | CDC, NIOSH (Future). |
| | 10.12 | National Survey of Worksite Health Promotion Activities, OASH, ODPHP. |
| | 10.13 | National Survey of Worksite Health Promotion Activities, OASH, ODPHP. |
| | 10.14 | CDC, NIOSH. |
| | 10.15 | Primary Care Providers Survey, OASH, ODPHP (Future). |
| | 11.1, 11.1a,b | National Hospital Discharge Survey, CDC, NCHS. |
| | 11.2* | Metropolitan Atlanta Development Disabilities Study, CDC, NCEH. |
| | 11.3, 11.3a | Waterborne Surveillance System, CDC, NCEH. |
| | 11.4, 11.4a | National Health and Nutrition Examination Survey, CDC, NCHS. |
| | 11.5 | CDC State-Based Surveillance for Childhood Lead Poisoning. |
| | 11.6, 11.6a,b | State & Local Childhood Lead Prevention Programs. National Air Quality and Emissions Trends Report, EPA. Baseline: OPA, OAR, Office of Radiation Programs. Updates: National Health Interview Survey, CDC, NCHS (Future). |
| | 11.7 | Toxic Chemical Release Inventory, EPA, OPPTS. ATSDR List of Priority Hazardous Substances. DHHS Annual Report on Carcinogens. |
| | 11.8 | Baseline: Characterization of Municipal Solid Waste in the United States: 1990 Update, EPA. Updates: EPA, Office of Solid Waste and Emergency Response. |
| | 11.9 | EPA, Office of Pollution Prevention. EPA Federal Reporting Data Base. |
| Food and Drug Safety | 11.10 | EPA, Office of Ground Water and Drinking Water. |
| | 11.11 | National Water Quality Inventory, EPA, Office of Water. |
| | 11.12 | National Health Interview Survey, CDC, NCHS. |
| | 11.13 | Environmental Law Institute. |
| | 11.14 | Alliance to End Childhood Lead Poisoning. |
| | 11.15 | National Priorities List, EPA, OSWER. |
| | 11.16 | Federal Environmental Progress and Challenges, EPA's Updates. |
| | 12.1 | CDC, NCEH. |
| | 12.2 | Bacterial Meningitis Surveillance System, CDC, NCID. |
| | 12.3 | Campylocacter Surveillance System, CDC, NCID. |
| Oral Health | 12.4 | Salmonella Surveillance System, CDC, NCID. |
| | 12.5 | Salmonella Surveillance System, CDC, NCID. |
| | 12.6 | Diet-Health Knowledge Survey, USDA, ASFCS. |
| | 13.1, 13.1c | Inspectional Standardization of Institutional Food Service Regulatory Officials, FDA, ORO. |
| | 13.1a | Listing of Confirmed Code Adoptions by Local, State, and National Jurisdictions, CFSAN, FDA. |
| | 13.1b,d | Food and Drug Administration. |
| | | Primary Care Providers Survey, OASH, ODPHP. |
| | | National Survey of Dental Caries in U.S. School Children, 1986–1987, NIH, NIDR. |
| | | North Carolina Oral Health School Survey, North Carolina Division of Dental Health, University of North Carolina School of Public Health. |
| | | Survey of Oral Health, 1983–1984, Indian Health Service, Dental Services Branch. |
| | | Update: 1991 Oral Health Status and Treatment Needs Survey of American Indians/Alaska Natives, Indian Health Service, Dental Services Branch. |

Table C. Data sources for the Healthy People 2000 objectives and subobjectives—Con.

[*Indicates duplicate objective]

| <i>Priority area</i> | <i>Objective number</i> | <i>Data source</i> |
|----------------------------|-------------------------|---|
| | 13.2, 13.2c | Baseline: National Survey of Dental Caries in U.S. School Children, 1986–1987, NIH, NIDR. |
| | 13.2a | Baseline: North Carolina Oral Health School Survey, North Carolina Division of Dental Health, University of North Carolina School of Public Health. |
| | 13.2b | Baseline: Survey of Oral Health, 1983–1984, Indian Health Service, Dental Services Branch. |
| | 13.2d | Baseline: Hispanic Health and Nutrition Examination Survey, CDC, NCHS. Update: 1991 Oral Health Status and Treatment Needs Survey of American Indians/Alaska Natives, Indian Health Service, Dental Services Branch. |
| | 13.3 | Baseline: National Survey of Oral Health in U.S. Employed Adults and Seniors, 1985–1986, NIH, NIDR. |
| | 13.4, 13.4a | Baseline: National Health Interview Survey, CDC, NCHS. |
| | 13.5, 13.5a | National Survey of Oral Health in U.S. Employed Adults and Seniors, 1985–1986, NIH, NIDR. |
| | 13.5b | Baseline: Survey of Oral Health, 1983–1984, Indian Health Service, Dental Services Branch. Update: 1991 Oral Health Status and Treatment Needs Survey of American Indians/Alaska Natives, Indian Health Service, Dental Services Branch. |
| | 13.5c | Baseline: Hispanic Health and Nutrition Examination Survey, CDC, NCHS. |
| | 13.6 | Baseline: National Survey of Oral Health in U.S. Employed Adults and Seniors, 1985–1986, NIH, NIDR. |
| | 13.7 | National Vital Statistics System, CDC, NCHS. |
| | 13.8 | Baseline: National Survey of Dental Caries in U.S. School Children, 1986–1987, NIH, NIDR. |
| | 13.9 | Updates: National Health Interview Survey, CDC, NCHS. CDC, NCPS. |
| | 13.10 | National Health Interview Survey, CDC, NCHS. |
| | 13.11*, 13.11a | National Health Interview Survey, CDC, NCHS. |
| | 13.11b | Baseline: 1990 Baby Bottle Tooth Decay 5-Year Evaluation Report, Indian Health Service, Dental Services Branch. |
| | 13.12 | National Health Interview Survey (1986, 1989, 1991), CDC, NCHS. |
| | 13.13 | Health Care Financing Administration. |
| | 13.14 | National Commission on Correctional Health Care (Future). |
| | 13.15 | National Health Interview Survey (1986, 1989, 1991), CDC, NCHS. |
| | 13.16* | Baseline: State Public Health Dentists Survey, Illinois State Health Department. CDC, NCPS. NIH, NIDR. |
| Maternal and Infant Health | 14.1, 14.1a–j | National Vital Statistics System, CDC, NCHS. |
| | 14.2, 14.2a | National Vital Statistics System, CDC, NCHS. |
| | 14.3, 14.3a | National Vital Statistics System, CDC, NCHS. |
| | 14.4, 14.4a,b | Births Defects Monitoring System, CDC, NCEH. |
| | 14.5, 14.5a,b | National Vital Statistics System, CDC, NCHS. |
| | 14.6 | Baseline: National Natality Survey, CDC, NCHS. Updates: National Maternal and Infant Health Survey, CDC, NCHS. |
| | 14.7 | National Vital Statistics System, CDC, NCHS. |
| | 14.8, 14.8a,b | National Hospital Discharge Survey, CDC, NCHS. |
| | 14.9* | National Hospital Discharge Survey, CDC, NCHS. Ross Laboratories Mother Survey. |
| | 14.9a–d | Pediatric Nutrition Surveillance System, CDC, NCCDPHP. |

Table C. Data sources for the Healthy People 2000 objectives and subobjectives—Con.

[*Indicates duplicate objective]

| <i>Priority area</i> | <i>Objective number</i> | <i>Data source</i> |
|--------------------------|-------------------------|---|
| Heart Disease and Stroke | 14.10 | Baseline: National Health Interview Survey, CDC, NCHS. Updates: National Maternal and Infant Health Survey, CDC, NCHS. |
| | 14.11, 14.11a–c | National Vital Statistics System, CDC, NCHS. |
| | 14.12* | National Health Interview Survey, CDC, NCHS. |
| | 14.13 | National Vital Statistics System, CDC, NCHS. |
| | 14.14 | Primary Care Providers Survey, OASH, ODPHP. |
| | | College of American Pathologists. |
| | | Foundation for Blood Research. |
| | 14.15 | Annual Report to Congress Summarizing State Reports required under title V under the MCH Block Grant, MCHB, HRSA. |
| | 14.16 | Council of Regional Networks for Genetic Services. |
| | 15.1*, 15.1a | Primary Care Providers Survey, OASH, ODPHP. |
| | 15.2, 15.2a | National Vital Statistics System, CDC, NCHS. |
| | 15.3, 15.3a | National Vital Statistics System, CDC, NCHS. |
| | 15.4 | End Stage Renal Disease Medicare Reimbursement Data, HCFA, Bureau of Data Management and Strategy. |
| | 15.4a | National Health and Nutrition Examination Survey, CDC, NCHS. |
| | | Baseline: 1982–89 Seven States Study, NIH. |
| | | Updates: National Health and Nutrition Examination Survey, CDC, NCHS (Future). |
| | 15.5, 15.5a,b | National Health Interview Survey, CDC, NCHS. |
| | 15.6 | National Health and Nutrition Examination Survey, CDC, NCHS. |
| | 15.7 | National Health and Nutrition Examination Survey, CDC, NCHS. |
| | 15.8 | Baseline: Health and Diet Survey, FDA. |
| | | Update: National Health and Nutrition Examination Survey, CDC, NCHS (Future). |
| | 15.9* | Baseline: National Health and Nutrition Examination Survey, CDC, NCHS. |
| | | Continuing Survey of Food Intakes by Individuals, USDA. |
| | | 1989 Update: Continuing Survey of Food Intakes by Individuals, USDA. |
| | 15.10*, 15.10a,b | Baseline: National Health and Nutrition Examination Survey, CDC, NCHS. |
| | 15.10c | Updates: National Health Interview Survey, CDC, NCHS. |
| | 15.10d | Baseline: Hispanic Health and Nutrition Examination Survey, CDC, NCHS. |
| | 15.10e | Updates: National Health Interview Survey, CDC, NCHS. |
| | 15.10f,g | Baseline: Indian Health Service, Office of Planning, Evaluation, and Legislation, Program Statistics Division. |
| | | Updates: National Health Interview Survey, CDC, NCHS. |
| | | National Health Interview Survey, CDC, NCHS. |
| | | National Health and Nutrition Examination Survey, CDC, NCHS. |
| | 15.11* | National Health Interview Survey, CDC, NCHS. |
| | | Original baseline: Behavioral Risk Factor Surveillance System, CDC, NCCDPHP. |
| | 15.12, | National Health Interview Survey, CDC, NCHS. |
| | 15.12a,b,d,h,i | Worldwide Survey of Substance Abuse and Health Behaviors Among Military Personnel, DoD, OASD. |
| | 15.12c | Baseline: Hispanic Health and Nutrition Examination Survey, CDC, NCHS. |
| | 15.12e | Updates: National Health Interview Survey, CDC, NCHS. |
| | 15.12f | Baseline: CDC, 1987. |
| | | Updates: National Health Interview Survey, CDC, NCHS. |

Table C. Data sources for the Healthy People 2000 objectives and subobjectives—Con.

[*Indicates duplicate objective]

| <i>Priority area</i> | <i>Objective number</i> | <i>Data source</i> |
|---|-------------------------|---|
| Cancer | 15.12g | Baseline: Local Surveys. Update: Jenkins CH. Cancer risks and prevention practices among Vietnamese refugees. <i>Western J of Med</i> 153:34–9. 1990. |
| | 15.12j | Behavioral Risk Factor Surveillance System, CDC, NCCDPHP. |
| | 15.13 | National Health Interview Survey, CDC, NCHS. |
| | 15.14 | Baseline: Health and Diet Survey, FDA. 1990 Update: Cholesterol Awareness Survey, NHLBI, NIH. |
| | 15.15 | 1991 Update: National Health Interview Survey, CDC, NCHS. |
| | 15.16 | Primary Provider Care Survey, OASH, ODPHP (Future). National Survey of Worksite Health Promotion Activities, OASH, ODPHP. |
| | 15.17 | Comprehensive Chemistry Survey of Laboratories Using Enzymatic Methods, College of American Pathologists. |
| | 16.1* | National Vital Statistics System, CDC, NCHS. |
| | 16.2* | National Vital Statistics System, CDC, NCHS. |
| | 16.3 | National Vital Statistics System, CDC, NCHS. |
| | 16.4 | National Vital Statistics System, CDC, NCHS. |
| | 16.5 | National Vital Statistics System, CDC, NCHS. |
| | 16.6*, 16.6a,b,d,h,i | National Health Interview Survey, CDC, NCHS. |
| | 16.6c | Worldwide Survey of Substance Abuse and Health Behaviors Among Military Personnel, DoD, OASD. |
| | 16.6e | Baseline: Hispanic Health and Nutrition Examination Survey, CDC, NCHS. |
| | 16.6f | Updates: National Health Interview Survey, CDC, NCHS. |
| | 16.6g | Baseline: CDC, 1987. Updates: National Health Interview Survey, CDC, NCHS. |
| | 16.6j | Baseline: Hispanic Health and Nutrition Examination Survey, CDC, NCHS. |
| | 16.7* | Continuing Survey of Food Intakes by Individuals, USDA. 1989 Update: Continuing Survey of Food Intakes by Individuals, USDA. |
| Diabetes and Chronic Disabling Conditions | 16.8* | Continuing Survey of Food Intakes by Individuals, USDA. |
| | 16.9 | National Health Interview Survey, CDC, NCHS. |
| | 16.10 | Baseline: Wells, et al, 1986 Updates: 1989 Survey of Physician's Attitudes and Practices in Early Cancer Detection, NCI. |
| | 16.11, 16.11a–d | Primary Care Providers Survey, OASH, ODPHP (Future). |
| | 16.12, 16.12a–d | National Health Interview Survey, CDC, NCHS. |
| | 16.13 | National Health Interview Survey, CDC, NCHS. |
| | 16.14 | National Health Interview Survey, CDC, NCHS. |
| | 16.15 | National Cancer Institute, Division of Cancer Prevention and Control Surveillance Program. |
| | 16.16 | American College of Radiology. |
| | 17.1*, 17.1a–c | National Vital Statistics System, CDC, NCHS. |
| | 17.2, 17.2a–c | National Health Interview Survey, CDC, NCHS. |
| | 17.3, 17.3a | National Health Interview Survey, CDC, NCHS. Baseline: National Health Interview Survey, CDC, NCHS. National Nursing Home Survey, CDC, NCHS. Updates: National Health Interview Survey, CDC, NCHS. |

Table C. Data sources for the Healthy People 2000 objectives and subobjectives—Con.

[*Indicates duplicate objective]

| <i>Priority area</i> | <i>Objective number</i> | <i>Data source</i> |
|----------------------|-------------------------|--|
| | 17.4 | National Health Interview Survey, CDC, NCHS. |
| | 17.5 | National Health Interview Survey, CDC, NCHS. |
| | 17.6, 17.6a | National Health Interview Survey, CDC, NCHS. |
| | 17.7, 17.7a | National Health Interview Survey, CDC, NCHS. |
| | 17.8* | Metropolitan Atlanta Developmental Disabilities Study, CDC, NCEH. |
| | 17.9, 17.9a,b | National Vital Statistics System, CDC, NCHS. |
| | 17.10 | Massachusetts Blind Registry, Massachusetts Commission on the Blind. |
| | 17.10a,b,c | Health Care Financing Administration, Bureau of Data Management and Strategy. National Health Interview Survey, CDC, NCHS. National Hospital Discharge Survey, CDC, NCHS. Health Care Financing Administration Bureau of Data Management and Strategy National Hospital Discharge Survey National Hospital Discharge Survey, CDC, NCHS. Program Statistics, PHS, IHS. |
| | 17.11, 17.11e | National Health Interview Survey, CDC, NCHS. |
| | 17.11a | Ambulatory Utilization Data, Indian Health Service. |
| | 17.11b-d | Baseline: Hispanic Health and Nutrition Examination Survey, CDC, NCHS. |
| | 17.12*, 17.12a,b | Baseline: National Health and Nutrition Examination Survey, CDC, NCHS. |
| | 17.12c | Updates: National Health Interview Survey, CDC, NCHS. Baseline: Hispanic Health and Nutrition Examination Survey, CDC, NCHS. |
| | 17.12d | Updates: National Health Interview Survey, CDC, NCHS. Baseline: Indian Health Service, Office of Planning Evaluation and Legislation, Program Statistics Division. |
| | 17.12e | Updates: National Health Interview Survey, CDC, NCHS. |
| | 17.12f,g | National Health Interview Survey, CDC, NCHS. National Health and Nutrition Examination Survey, CDC, NCHS. |
| | 17.13* | Original baseline: Behavioral Risk Factor Surveillance System, CDC, NCCDPHP. |
| | 17.14, 17.14a,b | National Health Interview Survey, CDC, NCHS. Baseline: Halpern M. The impact of diabetes education in Michigan. Diabetes 38(2):151A, 1989. |
| | 17.15 | Updates: National Health Interview Survey, CDC, NCHS. |
| | 17.16 | Primary Care Providers Survey, OASH, ODPHP. |
| | 17.17 | Baseline: Annual Survey of Hearing Impaired Children and Youth, Commission on Education of the Deaf. |
| | 17.18 | Updates: National Health Interview Survey, CDC, NCHS. |
| | 17.19 | Primary Care Providers Survey, OASH, ODPHP. |
| | 17.20 | National Health Interview Survey, CDC, NCHS (Future). Baseline: Survey of Persons with Disability, International Center for the Disabled. |
| HIV Infection | 18.1,18.1a-c | Annual Report to Congress summarizing State reports required under Title V MCH Block Grant, MCHB, HRSA. |
| | 18.2, 18.2a-c | AIDS Surveillance System, CDC, NCID. |
| | 18.3* | CDC, NCID. |
| | 18.4* | Baseline: National Survey of Family Growth, CDC, NCHS. |
| | 18.4a | National Survey of Adolescent Males, NIH, NICHD. |
| | 18.4b | Updates: Youth Risk Behavior Survey, CDC, NCCDPHP. |
| | | National Survey of Family Growth, CDC, NCHS. |
| | | Baseline: National Survey of Family Growth, CDC, NCHS. |
| | | Updates: Youth Risk Behavior Survey, CDC, NCCDPHP. |
| | | Baseline: National Survey of Adolescent Males, NIH, NICHD. |
| | | Updates: Youth Risk Behavior Survey, CDC, NCCDPHP. |

Table C. Data sources for the Healthy People 2000 objectives and subobjectives – Con.

[*Indicates duplicate objective]

| <i>Priority area</i> | <i>Objective number</i> | <i>Data source</i> |
|-------------------------------|-------------------------|--|
| | 18.4c | None. |
| | 18.5 | SAMHSA. |
| | 18.6 | National AIDS Demonstration Research Program, NIH, NIDA. |
| | 18.7 | CDC, NCID. |
| | 18.8 | HIV Counseling and Testing Data Sites System, CDC, NCPS. |
| | 18.9 | Baseline: Primary Care Physician Survey of Sexual History-taking and Counseling Practices, Lewis CE and Freeman HE. Western Journal of Medicine, 147: 165–7. 1987. Updates: Primary Care Providers Survey, OASH, ODPHP. |
| Sexually Transmitted Diseases | 18.9a | Primary Care Providers Survey, OASH, ODPHP. |
| | 18.10 | AIDS education: Public school programs require more student information and teacher training, GAO, 1990. |
| | 18.11 | American College Health Association (Future). |
| | 18.12 | CDC, NCPS. |
| | 18.13 | National Questionnaire on Provision of STD and HIV Services by Family Planning Clinics, PHS, OPA. |
| | 18.14 | OSHA. |
| | 19.1, 19a–c | Sexually Transmitted Disease Surveillance System, CDC, NCPS. |
| | 19.2 | National Disease and Therapeutic Index, IMS America, Ltd. |
| | 19.3, 19.3a | Sexually Transmitted Disease Surveillance System, CDC, NCPS. |
| | 19.4 | Sexually Transmitted Disease Surveillance System, CDC, NCPS. |
| | 19.5 | National Disease and Therapeutic Index, IMS America, Ltd. |
| | 19.6 | National Hospital Discharge Survey, CDC, NCHS. |
| | 19.7* | Viral Hepatitis Surveillance System, CDC, NCID. |
| | 19.8 | Sexually Transmitted Disease Surveillance System, CDC, NCPS. |
| | 19.9* | Baseline: National Survey of Family Growth, CDC, NCHS. National Survey of Adolescent Males, NIH, NICHD. Updates: Youth Risk Behavior Survey, CDC, NCCDPHP. |
| | 19.10* | National Survey of Family Growth, CDC, NCHS. |
| | 19.10a | Baseline: National Survey of Family Growth, CDC, NCHS. Updates: Youth Risk Behavioral Survey, CDC, NCCDPHP. |
| | 19.10b | Baseline: National Survey of Adolescent Males, NIH, NICHD. Updates: Youth Risk Behavioral Survey, CDC, NCCDPHP. |
| | 19.10c | None. |
| | 19.11* | National Questionnaire on Provision of STD and HIV Services by Family Planning Clinics, PHS, OPA. |
| | 19.12 | Baseline: Risk and Responsibility: Teaching Sex Education in America's Schools Today, Survey of Large School Districts on Sex and AIDS Education, Alan Guttmacher Institute, New York, 1989. |
| | 19.13 | National Disease and Therapeutic Index, IMS Americas, Ltd. |
| | 19.14* | Baseline: Primary Care Physician Survey of Sexual History-taking and Counseling Practices, Lewis CE and Freeman HE. Western Journal of Medicine, 147: 165–7. 1987. Updates: Primary Care Providers Survey, OASH, ODPHP. |
| | 19.14a | Primary Care Providers Survey, OASH, ODPHP. |
| | 19.15 | Sexually Transmitted Disease Surveillance System, CDC, NCPS. |

Table C. Data sources for the Healthy People 2000 objectives and subobjectives—Con.

[*Indicates duplicate objective]

| <i>Priority area</i> | <i>Objective number</i> | <i>Data source</i> |
|--------------------------------------|-------------------------|---|
| Immunization and Infectious Diseases | 20.1 | National Notifiable Disease Surveillance System, CDC, EPO. |
| | 20.2 | CDC, NCID and NCHS. |
| | 20.3*, 20.3a–g | Viral Hepatitis Surveillance System, CDC, NCID. |
| | 20.4, 20.4a–d | Tuberculosis Morbidity Data, CDC, NCPS. |
| | 20.5 | National Nosocomial Infection Surveillance System, CDC, NCID. |
| | 20.6 | Malaria Surveillance System, CDC, NCID. |
| | 20.7, 20.7a | Typhoid Surveillance System, CDC, NCID. |
| | 20.8 | Viral Hepatitis Surveillance System, CDC, NCID. |
| | 20.9 | Bacterial Meningitis Surveillance System, CDC, NCID. |
| | 20.10 | National Health Interview Survey, CDC, NCHS. |
| | 20.11 | National Health Interview Survey, CDC, NCHS. |
| | 20.12 | United States Immunization Survey, CDC, NCPS. |
| | 20.13 | State Immunization Survey, CDC, NCPS. |
| | 20.14 | National Health Interview Survey, CDC, NCHS. |
| | 20.15 | Perinatal Hepatitis B Screening Grant Program, CDC, NCID. |
| | 20.16 | Regulatory Impact Analysis of OSHA Final Rule on Occupational Exposure to Bloodborne Pathogens, DOL, OSHA, ORA. |
| | 20.17 | Rabies Vaccine and Immune Globulin Manufacturers Sales Data, CDC, NCID. |
| | 20.18 | Survey of Immunization Laws, CDC, NCPS. |
| | 20.19 | Primary Care Providers Survey, OASH, ODPHP. |
| Clinical Preventive Services | 21.1, 21.1(a–c) | Health Insurance Association of America Employer Survey, Health Insurance Association of America. |
| | 21.2, 21.2d–l | Immunization Grant Program Profiles, CDC, NCPS. |
| | 21.2a–c | Tuberculosis Screening and Preventive Therapy Summary Reports, CDC, NCPS. |
| | 21.3, 21.3a–c | Tuberculosis Program Management Report Data on Completion of Preventive Therapy, CDC, NCPS. |
| | 21.4 | Survey of Laboratories using Rapid Viral Diagnosis of Influenza, CDC, NCID. |
| | 21.5 | National Health Interview Survey, CDC, NCHS. |
| | 21.6 | National Vital Statistics System, CDC, NCHS. |
| Surveillance and Data Systems | 21.7 | National Health Interview Survey, CDC, NCHS. |
| | 21.8 | National Health Interview Survey, CDC, NCHS (Future). |
| | 22.1 | Baseline: 1986 Access to Health Care Survey, Robert Wood Johnson Foundation. |
| | 22.2 | Updates: National Health Interview Survey, CDC, NCHS. |
| | 22.3 | National Health Interview Survey, CDC, NCHS. |
| | 22.4 | BHCDA Survey, HRSA, OPEL. |
| | 22.5 | Survey of Federal Programs, HRSA, OPEL. |
| | 22.6 | Primary Care Providers Survey, OASH, ODHPH. |
| | 22.7 | National Profile of Local Health Departments, National Association of County Health Officials. |
| | | Minorities and Women in the Health Fields, HRSA, BHP. |
| | | CDC, NCHS. |
| | | Baseline: ODHPH (National data); Public Health Foundation (State data). |
| | | Updates: CDC, NCHS. |
| | | CDC, NCHS. |
| | | Subcommittee on State and Community Health Statistics, NCVHS (Future). |
| | | Public Health Foundation. |
| | | CDC, IRMO, and NCHS. |
| | | CDC. |

Table D. Health Status Indicators

| <i>Health status indicators</i> | <i>1990</i> |
|--|--------------------------|
| Race/ethnicity-specific infant mortality as measured by the rate (per 1,000 live births) of deaths among infants under one year of age. | |
| White | 9.2 |
| Black | 7.6 |
| American Indian | 18.0 |
| Chinese | 13.0 (data are for 1987) |
| Japanese | 7.3 |
| Filipino | 6.2 |
| Other Asian or Pacific Islander | 6.6 |
| Hispanic origin | 7.9 |
| Total deaths per 100,000 population. (ICD-9 nos. 0-E999) ¹ | 8.2 |
| Motor vehicle crash deaths per 100,000 population. (ICD-9 nos. E810-E825) ¹ | 520.2 |
| Work-related injury deaths per 100,000 population. | 18.5 |
| Suicides per 100,000 population. (ICD-9 nos. E950-E959) ¹ | 2.3 |
| Homicides per 100,000 population. (ICD-9 nos. E960-E978) ¹ | 11.5 |
| Lung cancer deaths per 100,000 population. (ICD-9 no. 162) ¹ | 10.2 |
| Female breast cancer deaths per 100,000 women. (ICD-9 no. 174) ¹ | 39.9 |
| Cardiovascular disease deaths per 100,000 population. (ICD-9 nos. 390-448) ¹ | 23.1 |
| Reported incidence (per 100,000 population) of acquired immunodeficiency syndrome. | 189.8 |
| Reported incidence (per 100,000 population) of measles. | 18.1 (data are for 1992) |
| Reported incidence (per 100,000 population) of tuberculosis. | 3.8 (data are for 1991) |
| Reported incidence (per 100,000 population) of primary and secondary syphilis | 10.4 |
| Prevalence of low birth weight as measured by the percentage of live born infants weighing under 2,500 grams at birth. | 7.0 |
| Births to adolescents (ages 10-17 years) as a percentage of total live births | 4.7 |
| Prenatal care as measured by the percentage of mothers delivering live infants who did not receive care during the first trimester of pregnancy. | 24.2 |
| Childhood poverty, as measured by the proportion of children under 15 years of age living in families at or below the poverty level. | 21.4 |
| Proportion of persons living in counties exceeding U.S. Environmental Protection Agency standards for air quality during the previous year. | 32 |

¹Age adjusted to the 1940 population.

Index to Health, United States, 1992

Detailed Tables

(Numbers refer to table numbers)

| A | Table | A—Con. | Table | B—Con. | Table |
|---|----------|---------------------------------|---------|---|-----------|
| Aборт | 13-15 | American Indian population—Con. | | Black population—Con. | |
| Аборты на 100 живых родов | 13 | Предродовая помощь | 9 | Рождаемость | 3 |
| Возраст | 13 | Подростки-матери | 10 | Низкая масса новорожденных | 8,11, |
| Смерти, связанные с абортом | 15 | Невенчанные матери | 10 | Число рождений | 12,19 |
| Гестационный возраст | 14,15 | Студенты ветеринарии | 105 | Артериальное давление | 3,7 |
| Место расположения учреждения | 14 | Asian population | | Болезни, число | |
| Социальный статус | 13 | Случаи СПИДа | 53 | Болезни, повышенное артериальное давление | 70 |
| Число абортов | 14,15 | Смерти от СПИДа | 54 | Болезни, раковые | 59 |
| Предыдущие искусственные аборты | 14 | Низкая масса новорожденных | 8,19 | Выживание от рака, 5-летнее | 60 |
| Предыдущие живые роды | 13 | Число рождений | 7 | Холестерин, повышенный | |
| Рас | 13 | Смертность, все причины | 31 | Серум | 72 |
| Тип процедуры | 14 | Смерти, выбранные причины | 30 | Курение | 64-67 |
| Акute условия, инцидент | 62 | Стоматологи | 105 | Кокаин | 66-68 |
| AIDS, see HIV/AIDS. | | Образование матери | 9 | Контрацепция | 16,17 |
| Air pollution | 74 | Младенческая смертность | 18,19 | Смертность, все причины | 28,31,34, |
| Alcohol consumption | 66,67,69 | Медицинские студенты | 105,106 | 48 | |
| Взрослые | 69 | Народные медсестры | 105 | Смертность, выбранные причины | 28,31, |
| Образование | 67 | Офтальмологи | 105 | 35-45 | |
| Школьники | 67 | Фармацевты | 105 | Смерти, выбранные причины | 30 |
| Латиноамериканцы | 66,69 | Педиатры | 105 | Стоматологи | 105 |
| Рас | 66,67,69 | Население, постоянное | 1 | Визиты к врачу | 82 |
| Молодежь и подростки | 66 | Предродовая помощь | 9 | Образование матери | 9 |
| Ambulatory care, see | | Подростки-матери | 10 | Ожидаемые роды | 6 |
| Визиты к врачу | | Невенчанные матери | 10 | Родительские показатели | 4 |
| Визиты в больницу, амбулаторные | | Студенты ветеринарии | 105 | Фетальная смертность | 24 |
| Визиты в больницу, хирургия, амбулаторные | | | | Здоровье, самооценка | |
| Врачебные визиты | | | | оценивания | 63 |
| American Indian population | | | | Здравоохранение | 135,136 |
| Случаи СПИДа | 53 | | | Использование больницы | 83 |
| Смерти от СПИДа | 54 | | | Гипертония | 71 |
| Низкая масса новорожденных | 8,19 | | | Младенческая смертность | 18-23 |
| Число рождений | 7 | | | Ожидаемая продолжительность жизни | 27 |
| Смертность, все причины | 31 | | | Лимитация активности | 61 |
| Смерти, выбранные причины | 30 | | | Марихуана | 66,67 |
| Стоматологи | 105 | | | Медицинские студенты | 105,106 |
| Образование матери | 9 | | | Народные медсестры | 105 |
| Младенческая смертность | 18,19 | | | Офтальмологи | 105 |
| Медицинские студенты | 105,106 | | | Избыточный вес | 73 |
| Народные медсестры | 105 | | | Фармацевты | 105 |
| Офтальмологи | 105 | | | Врачи | 78-81 |
| Фармацевты | 105 | | | Педиатры | 105 |
| Педиатры | 105 | | | Население, постоянное | 1 |
| Популяция, постоянное | 1 | | | Бедность, лица | |
| | | | | и семьи | 2 |
| | | | | Предродовая помощь | 9 |
| | | | | Регион, смертность | 32 |
| | | | | Подростки-матери | 10 |
| | | | | Невенчанные матери | 10 |
| | | | | Урбанизация, смертность | |
| | | | | относящаяся к смертности | 32 |
| | | | | старшего возраста | |
| | | | | Ветеринарные студенты | 105 |
| | | | | Год потенциальной жизни | |
| | | | | потерянной | 29 |
| | | | | Артериальное давление | 70,71 |
| | | | | повышенное | |
| | | | | Гипертония | 71 |
| | | | | | |

| C | Table | D—Con. | Table | D—Con. | Table |
|---|-----------------|---|--------------------|--|--------------------|
| Cancer (see also Deaths; Hospital utilization) | 59,60 | Deaths—Con. | 28,29 | Drug use, see | |
| Incidence rates | 59 | Cancer, prostate | 28,29 | Alcohol consumption; | |
| Survival, 5-year relative | 60 | Cancer, respiratory system | 28,29,38, 49 | Cigarette smoking; | |
| Cerebrovascular disease, see Deaths; Hospital utilization, diagnoses. | | Cause-of-death ranking .. | 30,49 | Cocaine use; | |
| Chancroid | 52 | Cerebrovascular disease (stroke) | 28–31,36, 49,50 | Marijuana use. | |
| Chickenpox (varicella) | 52 | Chronic liver disease and cirrhosis | 28–30,49 | E | |
| Chiropractors | 97,104 | Chronic obstructive pulmonary disease | 28–30,49 | Elderly population | |
| Employees, in offices of .. | 97 | Diabetes mellitus | 28–30,49 | Acute conditions, incidence | 62 |
| Schools | 104 | Drug-induced | 28 | Alcohol consumption | 69 |
| Students | 104 | Educational attainment .. | 33 | Bed-disability days | 62 |
| Cholesterol, elevated serum | 72 | External causes | 28 | Blood pressure, elevated | 70 |
| Cigarette smoking | 64–67 | Firearm injuries | 45 | Cholesterol, elevated serum | 72 |
| Age | 64 | Heart disease | 28–31,35, 50 | Cigarette smoking | 64 |
| Education | 65,67 | Hispanic origin | 31 | Death rates, all causes .. | 31,34,48 |
| High school seniors | 67 | HIV | 31,40 | Deaths or death rates, selected causes | 31,35–40, 42–46,50 |
| Hispanic origin | 66 | Homicide and legal intervention | 28–31,43, 49 | Dental visits | 82 |
| Youths and young adults | 66 | Ischemic heart disease .. | 28,29,49 | Health, self-assessment of | 63 |
| Cocaine use | 66–68 | Maternal mortality | 41 | Health insurance | 136 |
| Age | 66,68 | Motor vehicle crashes | 28,29,31, 42,49 | Hospital utilization | 83,84, 86–89 |
| Education | 67 | Natural causes | 28 | Hypertension | 71 |
| Emergency room episodes | 68 | Nephritis, nephrotic syndrome, nephrosis | 28,30,49 | Life expectancy at age 65 | 26,27 |
| High school seniors | 67 | Number of deaths | 30,46,47 | Limitation of activity | 61 |
| Hispanic origin | 68 | Occupational diseases | 46 | Medicaid | 136,141, 142 |
| Youths and young adults | 66 | Occupational injuries | 47 | Medicare | 136–140 |
| Communicable diseases, see Diseases, notifiable. | | Pneumonia and influenza | 28–30,49 | Mental health care utilization | 95,96 |
| Consumer Price Index | 118,119 | Provisional data, most recent year | 48–50 | Nursing home expenditures | 116, 125–127, 134 |
| Medical care components | 119 | Race | 28–45,48 | Nursing home utilization | 91,92, 126,127 |
| Contraception | 16,17 | Region | 32 | Nursing homes | 113 |
| Age | 16 | Septicemia | 28,30,49 | Overweight | 73 |
| Marital status | 17 | Sex | 28–38,40, 42–45,48 | Physician utilization | 78–81 |
| D | | Suicide | 28–31,44, 49 | Population, resident | 1 |
| Deaths (see also Abortion; HIV/AIDS; Infant mortality; Life expectancy) | 28–50 | Unintentional injuries | 28–30,49 | Restricted-activity days | 62 |
| Age | 31,33–46, 48,50 | Urbanization | 32 | Expenditures, national health (see also Consumer Price Index); | |
| Alcohol-induced | 28 | Years of potential life lost | 29 | Health research and development; | |
| All causes | 28–31,34, 48,49 | Dental visits | 82 | HIV/AIDS, expenditures by Federal agency; Hospital expenses; Medicaid; Medicare; Mental health expenditures; | |
| Atherosclerosis | 28,30,49 | Dentists | 97,101, 104–106 | | |
| Cancer, all sites | 28–31,37, 49,50 | Employees in offices of .. | 97 | | |
| Cancer, breast | 28,29,39, 49 | Geographic region | 101 | | |
| Cancer, colorectal | 28,29 | Schools | 104 | | |
| | | Students | 104–106 | | |
| | | Diphtheria | 51,52 | | |
| | | Disability days, see Bed-disability days; Restricted-activity days. | | | |

| E-Con. | Table | H-Con. | Table | H-Con. | Table |
|---|---------------------------|---|----------------------------|---|-----------------------|
| Expenditures, national health—Con. | | Health research and development (see also HIV/AIDS) | 128,129 | Hospital employees (see also Mental health resources) | 97,102, 112,120 |
| Nursing home expenditures; | | Federal funding, by agency | 129 | Full-time employees | 102,112, 120 |
| Physician expenditures; | | Source of funds | 128 | Geographic division and State | 112 |
| Public health expenditures; | | Health, self-assessment of .. | 63 | Number employed in hospitals | 97 |
| Veterans medical care) .. | 114–117, 122–125, 131,132 | Hepatitis | 52 | Occupation | 102 |
| Amount in billions | 114, 122–124 | Hispanic origin population AIDS cases..... | 53,55 | Hospital expenses (see also Consumer Price Index; Medicaid; Medicare) .. | 116, 119–121, 125,133 |
| Amount per capita | 114,115, 122,123, 132 | AIDS deaths | 54,56 | Amount in billions | 125 |
| Factors affecting growth..... | 117 | Alcohol consumption | 66,69 | Amount per capita | 133 |
| Federal government | 114,123 | Birth weight, low..... | 8,19 | Employee costs | 120 |
| Geographic division and State | 132 | Births, number..... | 7 | Geographic division and State | 133 |
| International | 115 | Cigarette smoking..... | 66 | Inpatient care expenses .. | 120,121 |
| Out-of-pocket payments.. | 123–125 | Cocaine use | 66,68 | Ownership type | 121 |
| Percentage of gross domestic product..... | 114,115 | Death rates, all causes and selected causes..... | 31 | Size of hospital | 121 |
| Personal health care..... | 117,123, 132 | Dental students | 105 | Source of funds | 125 |
| Source of funds | 122,123, 125,131 | Education of mother..... | 9 | Hospital utilization (see also Medicaid; Medicare; Veterans medical care)..... | 83–90 |
| State and local government..... | 114,123 | Infant mortality | 18,19 | Admissions | 90 |
| Type of expenditure | 116 | Marijuana use | 66 | Average length of stay..... | 83–85,87, 90 |
| Type of payer..... | 124 | Medical students | 105,106 | Days of care..... | 83–86 |
| | | Nursing students | 105 | Diagnoses, selected..... | 85–87 |
| F | | Optometry students | 105 | Diagnostic and other nonsurgical procedures.. | 89 |
| Fertility rates, see Births. | | Pharmacy students | 105 | Discharges for inpatients | 83–87 |
| Fetal mortality | 20,24 | Podiatry students..... | 105 | Family income | 83 |
| | | Population, resident | 1 | Geographic region..... | 83,84 |
| G | | Poverty level, persons and families below | 2 | Outpatient visits | 90 |
| Gonorrhea..... | 52 | Prenatal care | 9 | Ownership type | 90 |
| Gross Domestic Product.... | 114 | Teenage mothers..... | 10 | Race | 83 |
| | | Unmarried mothers | 10 | Residence within/ outside MSA | 83 |
| H | | Veterinary students..... | 105 | Sex..... | 83,84, 86–89 |
| Health expenditures, national, see Expenditures, national health. | | HIV/AIDS..... | 28–31,40, 49,53–58, 85,130 | Size of hospital | 90 |
| Health insurance (see also Health maintenance organizations; Medicaid; Medicare)..... | 135,136 | Age | 31,40,53, 54,85 | Surgery, inpatient | 88 |
| 65 years of age and older | 136 | AIDS cases..... | 53,55,57 | Surgery, outpatient | 90 |
| Under 65 years of age ... | 135 | Death rates | 28,31,40, 49 | Hospitals (see also Hospital employees; Mental health resources; Nursing homes) | 107,108, 110,111 |
| Health maintenance organizations..... | 137 | Deaths, number..... | 30,54,56, 58 | Beds..... | 107,108 |
| | | Expenditures by Federal agency and activity | 130 | Beds per 1,000 population | 110 |
| | | Geographic division and State | 57,58 | Geographic division and State | 110,111 |
| | | Hispanic origin | 31,53–56 | Long-term hospitals | 108 |
| | | Hospital utilization | 85 | | |
| | | Provisional mortality data, most recent year .. | 49 | | |
| | | Race | 28–31,40, 53–56 | | |
| | | Rank as cause of death .. | 30,49 | | |
| | | Sex..... | 28–31,40, 53–56 | | |
| | | Transmission category ... | 55,56 | | |
| | | Years of potential life lost..... | 29 | | |

| H—Con. | Table | M—Con. | Table | N—Con. | Table |
|---|-------------|--|-------------|---|-----------------|
| Hospitals—Con. | | Maternal mortality, see Deaths. | | Nurses, registered (see also Mental health resources). | 101,102,104–106 |
| Number of hospitals | 107,108 | Measles (Rubeola) | 51,52 | Full-time employees in community hospitals | 102 |
| Occupancy rate | 107,108,111 | Medicaid (see also Health insurance) | 125,141,142 | Geographic region | 101 |
| Ownership type | 107,108 | Basis of eligibility | 141 | Schools | 104 |
| Short-stay hospitals | 107,110,111 | Expenditures | 125 | Students | 104–106 |
| Size of hospital | 107 | Type of service | 142 | Type of training | 101,104,105 |
| Hypertension, see Blood pressure, elevated. | | Medical doctors, see Physicians. | | Nursing home employees | 97 |
| I | | Medicare (see also Health insurance) | 125,138–140 | Nursing home expenditures | 116,125–127,134 |
| Immunizations, see Vaccinations. | | Age, race, and sex | 139 | Age and sex of residents | 127 |
| Infant mortality (see also Fetal mortality) | 18–23,25 | Enrollment | 138,139 | Amount in billions | 125,134 |
| Birth cohort data | 18,19 | Expenditures | 125,138 | Amount per capita | 134 |
| Birth weight | 19 | Geographic region or division | 139,140 | Average monthly charges | 126,127 |
| Feto-infant mortality | 25 | Hospital utilization | 140 | Facility characteristics | 126,127 |
| Geographic division and State | 21–23 | Payments | 139,140 | Geographic division and State | 134 |
| Hispanic origin | 18,19 | Persons served per 1,000 enrollees | 139 | Source of funds | 125,126 |
| International | 25 | Type of service | 138,140 | Nursing home utilization | 91,92 |
| Neonatal mortality | 18,20,22 | Mental health care utilization | 93–96 | Functional status of residents | 92 |
| Perinatal mortality | 20 | Additions | 93,95,96 | Sex and race | 91 |
| Postneonatal mortality | 18,20,23,25 | Age | 95,96 | Nursing homes | 113 |
| Provisional data, most recent year | 20 | Diagnosis, primary | 96 | O | |
| Race | 18–23 | Inpatient days and episodes | 94 | Occupational health (see also Deaths) | 75–77 |
| Inpatient care, see Hospital utilization; Mental health care utilization; Nursing home utilization. | | Race and sex | 95 | Exposures, lead and noise | 76 |
| International health, see Expenditures; Infant mortality; Life expectancy. | | Type of service | 93 | Health and safety services | 77 |
| L | | Mental health expenditures | 144,145 | Industry | 75,76 |
| Life expectancy | 26,27 | Organization type | 144 | Injuries with lost workdays | 75 |
| International | 26 | State mental health agency | 145 | Size of facility | 76,77 |
| Provisional data, most recent year | 27 | Mental health resources | 103,108,109 | Optometrists | 101,104–106 |
| Race | 27 | Beds | 108,109 | Geographic region | 101 |
| Limitation of activity | 61 | Long-term psychiatric hospitals | 108 | Schools | 104 |
| M | | Patient care staff | 103 | Students | 104–106 |
| Malignant neoplasms, see Cancer. | | MMR (Measles, Mumps, Rubella) | 51 | Osteopaths, see Physicians. | |
| Marijuana use | 66,67 | Mumps | 51,52 | Overweight persons | 73 |
| Education | 67 | N | | P | |
| High school seniors | 67 | National health expenditures, see Expenditures, national health. | | Perinatal mortality, see Infant mortality. | |
| Youths and young adults | 66 | Neonatal mortality, see Infant mortality. | | Personal health care expenditures, see Expenditures, national health. | |

| P—Con. | Table | R | Table | W | Table |
|---|---------------------|--|-----------------|---|-----------------|
| Pertussis (whooping cough) | 51,52 | Registered nurses, see Nurses, registered. | | Women's health | |
| Pharmacists..... | 101,102, 104–106 | Restricted-activity days..... Age | 62 62 | Abortion..... | 13–15 |
| Employed in hospitals ... | 102 | Rubella (German measles).. | 51,52 | AIDS cases..... | 53,55 |
| Geographic region..... | 101 | | | AIDS deaths | 54,56 |
| Schools | 104 | | | Alcohol consumption | 66,67,69 |
| Students | 104–106 | | | Birth rates | 3 |
| Physician expenditures (see also Consumer Price Index; Medicaid; Medicare)..... | 125 | | | Births, number..... | 3,7 |
| Physician utilization..... | 78–81 | | | Blood pressure, elevated..... | 70 |
| Family income | 78,79 | Salmonellosis | 52 | Cancer incidence rates... | 59 |
| Geographic region..... | 78,79 | Self-assessment of health, see Health, self-assessment of. | | Cancer survival, five year relative | 60 |
| Interval since last physician contact..... | 79 | Shigellosis | 52 | Cholesterol, elevated serum | 72 |
| Office visits to physicians | 80,81 | Smoking, see Cigarette smoking. | | Cigarette smoking..... | 64–67 |
| Physician contacts per person | 78 | State data | | Cocaine use | 66–68 |
| Place of physician contact | 78 | AIDS cases..... | 57 | Completed fertility rates | 5 |
| Residence within/ outside MSA | 78,79 | AIDS deaths | 58 | Contraception | 16,17 |
| Visit characteristics..... | 81 | Birth weight, low and very low..... | 11,12 | Death rates, all causes ... | 28,31,34, 48 |
| Physicians (see also Mental health resources)..... | 97–101, 104–106 | Expenditures, hospital care | 133 | Death rates, selected causes | 28,31, 35–45 |
| Doctors of osteopathy ... | 99,101, 104–106 | Expenditures, nursing home care..... | 134 | Deaths, number, selected causes..... | 30 |
| Employees in offices of .. | 97 | Expenditures, personal health care | 132 | Dental students | 106 |
| Geographic division and State | 98 | Expenditures, state mental health agency ... | 145 | Dental visits | 82 |
| Geographic region..... | 101 | Hospital beds..... | 110 | Education of mother..... | 9 |
| International medical school graduates | 100 | Hospital employees..... | 112 | Educational attainment, death rates | 32 |
| Primary specialty..... | 98,100 | Hospital occupancy rates..... | 111 | Expected births | 6 |
| Projections | 99 | Infant mortality | 21–24 | Fertility rates | 4 |
| Schools | 104 | Nursing home beds..... | 113 | Health, self-assessment of | 63 |
| Students | 104–106 | Physicians..... | 98 | Health insurance | 135,136 |
| Type of activity | 100 | Stroke, see Deaths, Cerebrovascular disease; Hospital utilization. | | Hospital utilization | 83,84, 86–89 |
| Podiatrists | 101,105, 106 | Surgery, see Hospital utilization. | | HIV | 85 |
| Geographic region..... | 101 | Syphilis..... | 52 | Hypertension | 71 |
| Students | 105,106 | Tetanus | 51 | Life expectancy | 26,27 |
| Poliomyelitis | 51,52 | Tuberculosis | 52 | Limitation of activity | 61 |
| Pollution, see Air pollution. | | | | Marijuana use | 66,67 |
| Population, resident..... | 1 | | | Medical students | 106 |
| Postneonatal mortality, see Infant mortality. | | | | Medicare..... | 139 |
| Poverty level, persons and families below..... | 2 | V | | Mental health care utilization | 95 |
| Prenatal care, see Births. | | Vaccinations, ages 1 to 4 ... | 51 | Nursing home utilization | 91 |
| Public health expenditures, State health agency..... | 131 | Veterans medical care..... | 143 | Nursing students | 106 |
| | | Veterinarians | 101,105, 106 | Optometry students | 106 |
| | | Geographic region..... | 101 | Overweight..... | 73 |
| | | Students | 105,106 | Pharmacy students | 106 |
| | | | | Physician utilization | 78–81 |
| | | | | Population, resident | 1 |
| | | | | Poverty, families with female householder..... | 2 |

W—Con.

Table

| | |
|--------------------------------------|--------|
| Women's health—Con. | |
| Prenatal care | 9 |
| Region, death rates..... | 32 |
| Teenage mothers..... | 3,6,10 |
| Unmarried mothers | 10 |
| Urbanization, death rates..... | 32 |
| Veterinary students..... | 106 |
| Years of potential life lost..... | 29 |

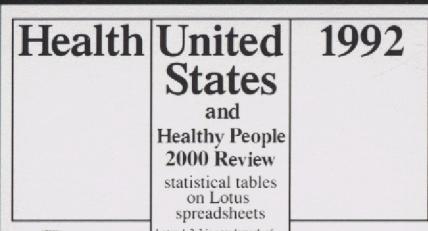
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| Years of potential life lost .. | 29 |
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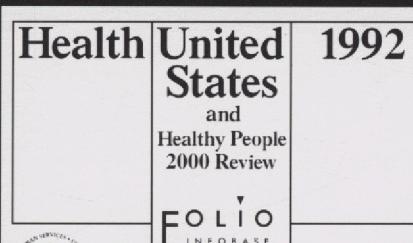


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