

# VITAL & HEALTH STATISTICS

## **Changes in Mortality Among the Elderly: United States, 1940-78 Supplement to 1980**

Revised mortality data for 1971-78 and updated data for 1979 and 1980 are presented for the population 65 years of age and over by age and sex. Revisions are based on new population estimates for 1971 through 1979 resulting from the 1980 census. All tables presented in this supplement supersede those in Series 3, No. 22.

**Analytical and  
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# Contents

|                        |   |
|------------------------|---|
| Introduction . . . . . | 1 |
| References . . . . .   | 3 |

## List of text tables

|                                                                                                                                                                                                                |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| A. Percent change in death rates for selected years by age: United States, 1925-80 . . . . .                                                                                                                   | 4 |
| B. Average annual percent change in death rates among persons 65 years of age and over for selected years by sex and age: United States, 1940-80 . . . . .                                                     | 4 |
| C. Average annual percent change in mortality-sex ratios among persons 65 years of age and over by age: United States, 1940-80 . . . . .                                                                       | 4 |
| D. Average annual percent change in death rates among persons 65 years of age and over for Diseases of heart, by sex, age, and years: United States, 1950-80 . . . . .                                         | 4 |
| E. Percent of deaths from Malignant neoplasms among persons 65 years of age and over, by sex, age, selected year, and leading cancer site: United States, 1950 and 1980 . . . . .                              | 5 |
| F. Average annual percent change in death rates among persons 65 years of age and over for Malignant neoplasms, by age, sex, and years: United States, 1950-80 . . . . .                                       | 5 |
| G. Average annual percent change in death rates among persons 65 years of age and over by selected cancer site, sex, year, and age: United States, 1950-80 . . . . .                                           | 6 |
| H. Average annual percent change in death rates among persons 65 years of age and over for Cerebrovascular diseases, by age, sex, and years: United States, 1950-80 . . . . .                                  | 6 |
| N. Average annual percent change in death rates among persons 65 years of age and over based on Medicare data and National Center for Health Statistics data, by age and sex: United States, 1968-80 . . . . . | 7 |
| O. Number and percent distribution of persons 65 years of age and over in 1982 and alternative projections to the year 2000, according to age: United States . . . . .                                         | 7 |

## List of detailed tables

|                                                                                                                                                   |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 1. Death rates among persons 65 years of age and over, by age: United States, 1940-80 . . . . .                                                   | 8  |
| 2. Death rates among males 65 years of age and over, by age: United States, 1940-80 . . . . .                                                     | 9  |
| 3. Death rates among females 65 years of age and over, by age: United States, 1940-80 . . . . .                                                   | 10 |
| 4. Mortality-sex ratios among persons 65 years of age and over, by age: United States, 1940-80 . . . . .                                          | 11 |
| 5. Death rates among persons 65 years of age and over for Diseases of heart, by sex and age: United States, 1950-80 . . . . .                     | 12 |
| 6. Mortality-sex ratios among persons 65 years of age and over for Diseases of heart, by age: United States, 1950-80 . . . . .                    | 13 |
| 7. Death rates among persons 65 years of age and over for Malignant neoplasms, by sex and age: United States, 1950-80 . . . . .                   | 14 |
| 8. Death rates among persons 65 years of age and over for cancer of colon, by sex and age: United States, 1950-80 . . . . .                       | 15 |
| 9. Death rates among persons 65 years of age and over for cancer of trachea, bronchus, and lung, by sex and age: United States, 1950-80 . . . . . | 16 |
| 10. Death rates among persons 65 years of age and over for cancer of genital organs, by sex and age: United States, 1950-80 . . . . .             | 17 |
| 11. Death rates among females 65 years of age and over for cancer of breast, by age: United States, 1950-80 . . . . .                             | 18 |
| 12. Mortality-sex ratios among persons 65 years of age and over for Malignant neoplasms, by age: United States, 1950-80 . . . . .                 | 19 |
| 13. Death rates among persons 65 years of age and over for Cerebrovascular diseases, by sex and age: United States, 1950-80 . . . . .             | 20 |
| 14. Mortality-sex ratios among persons 65 years of age and over for Cerebrovascular diseases, by age: United States, 1950-80 . . . . .            | 21 |

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### Symbols

- - - Data not available
  - . . . Category not applicable
  - Quantity zero
  - 0.0 Quantity more than zero but less than 0.05
  - Z Quantity more than zero but less than 500 where numbers are rounded to thousands
  - \* Figure does not meet standards of reliability or precision (more than 30-percent relative standard error)
  - # Figure suppressed to comply with confidentiality requirements
-

# Changes in Mortality Among the Elderly Supplement to 1980

by Lois A. Fingerhut, M.A., Division of Analysis

## Introduction

This supplement contains revised death rates for the population 65 years of age and over for the period 1971-78. The numerators of the death rates, the numbers of deaths, have not been revised. The revisions are based only on changes in the denominator, the population estimates. In addition, the time series is extended to include 1979 and 1980.

The revised death rates are based on the intercensal population estimates calculated after the 1980 Census of Population was completed.<sup>1</sup> Essentially these population estimates are an interpolation between the 1970 census as adjusted for net census undercount and the 1980 census. The unrevised death rates for 1971-78 that were in the Series 3, No. 22a report were based on postcensal estimates, the U.S. Bureau of the Census population estimates derived from the 1970 enumeration. These estimates were extrapolated from the 1970 counts. The new intercensal estimates supersede the postcensal estimates.

In one age group there is a rather large discrepancy between the intercensal and postcensal estimates. By the end of the decade, the postcensal population estimate of persons 75-79 years of age was 4,274,000.<sup>2</sup> The intercensal estimate of that age group is 4,724,000, a difference of 10 percent. The reason for such a large discrepancy is that the adjustment factor used to calculate the undercount in the 1970 census for ages 65-69 years was found to be incorrect (The undercount estimate has since been revised.). As this group aged through the decade the incorrect undercount factor was carried along with it. As a result, by the end of the decade the postcensal estimate of the population 75-79 years of age was very different from the new intercensal estimate based on the 1980 census. The revised estimates of the population 75-79 years of age had the pronounced effect of lowering the estimates of the death rates for that age group by more than 10 percent by the end of the decade.

Most of the other trends reported in the Series 3, No. 22 report changed only slightly as a result of the revised population estimates. The revision did, however, virtually eliminate from the death rates the variation among the age groups in the annual percent change. The decrease in the death rates for females remained much greater at each age group than the decreases in the death rates for males.

| Age                     | 1968-78   |         |           |         |
|-------------------------|-----------|---------|-----------|---------|
|                         | Male      |         | Female    |         |
|                         | Unrevised | Revised | Unrevised | Revised |
| 65-69 years . . . . .   | -2.2      | -2.2    | -2.6      | -2.7    |
| 70-74 years . . . . .   | -1.5      | -1.4    | -2.0      | -2.1    |
| 75-79 years . . . . .   | -0.9      | -1.7    | -1.7      | -2.8    |
| 80-84 years . . . . .   | -1.2      | -1.5    | -2.3      | -2.7    |
| 85 years and over . . . | -2.2      | -1.7    | -3.0      | -2.5    |

NOTE: The revised annual percent changes are now more in line with the changes shown by the data from the Medicare system. (See table N).

Between 1979 and 1980, however, there was an increase in the death rates among the elderly of about 3 percent, ranging from 1 percent at ages 70-74 to nearly 7 percent at age 85 years and over.<sup>3</sup> This increase is attributable to an influenza epidemic in 1980. Provisional data for 1981 and 1982 show that the decline has resumed.

Trends in the cause-specific death rates have changed in accordance with changes in the overall death rates. However, after extending the observations to include 1979 and 1980 data, an additional highlight should be noted. Beginning in 1980, lung cancer among females 65-74 years of age replaced breast cancer as the leading cause of cancer mortality. From 1979 to 1980 the death rate for lung cancer increased 13 percent, compared with a 2 percent increase in the rate for breast cancer. This rapid rise in lung cancer for females has been expected given the past prevalence of cigarette smoking in the female birth cohorts now entering the 65-74 age group.

The most recent population projections prepared by the U.S. Bureau of the Census (1982)<sup>4</sup> and by the Social Security Administration (1983),<sup>5</sup> indicate a rapid decline in mortality (similar to the decline observed from 1968-78) through the first decade of the 21st century. These current Bureau of the Census projections are a major departure from their set prepared in 1977 when a slow and steady decline in mortality was projected. There is a 21 percent difference in the size of the elderly population 75 years of age and over between the two sets of projections to the year 2000. Compared with the earlier census projections (1977), the current set of projections anticipates 13 percent more persons ages 75-79, 17 percent more persons at ages 80-84, and 37 percent more persons 85 years of age and over by the year 2000. The

Social Security Administration projects (1983) 9 percent more persons 75 years of age and over than it did in its 1980 projections. Projections prepared for the National Center for Health Statistics in 1978 are similar to both the recent Social Security Administration and Bureau of Census projections.<sup>6</sup>

When they were first prepared, however, they differed markedly from the Bureau of Census data.

The text and detailed tables that follow replace the tables in Series 3, No. 22. The cross-national tables have not been revised.

# References

<sup>1</sup>U.S. Bureau of the Census: Preliminary estimates of the population of the United States, by age, sex, and race, 1970 to 1981. *Current Population Reports*. Series P-25, No. 917. Washington. U.S. Government Printing Office, July 1982.

<sup>2</sup>U.S. Bureau of the Census: Estimates of the population of the United States, by age, race, and sex, 1976 to 1979. *Current Population Reports*. Series P-25, No. 870. Washington. U.S. Government Printing Office, Jan. 1980.

<sup>3</sup>National Center for Health Statistics (unpublished data).

<sup>4</sup>U.S. Bureau of the Census: Projections of the Population of the United States, 1982 to 2050. *Current Population Reports*. Series P-25, No. 922. Washington. U.S. Government Printing Office, Oct. 1982

<sup>5</sup>Social Security Administration: *Social Security Area Population Projections, 1983*. Actuarial Study No. 88. SSA Pub. No. 11-11535. U.S. Department of Health and Human Services. Washington. U.S. Government Printing Office, Aug. 1983.

<sup>6</sup>National Center for Health Statistics, D.P. Rice, H.M. Rosenberg, L.R. Curtin, and T.A. Hodgson: Changing mortality patterns, health services utilization, and health care expenditures: United States, 1978-2003. *Vital and Health Statistics*. Series 3, No. 23. PHS Pub. No. (PHS) 83-1407. Public Health Service. Washington. U.S. Government Printing Office, Sept. 1983.



**Table A. Percent change in death rates for selected years, by age: United States, 1925-80**

| Age                         | 1925-35 | 1935-45 | 1945-55 | 1968-80 |
|-----------------------------|---------|---------|---------|---------|
| Percent change              |         |         |         |         |
| Under 1 year . . . . .      | -19.2   | -30.2   | -32.9   | -43.1   |
| 1-4 years . . . . .         | -31.3   | -54.5   | -44.3   | -28.7   |
| 5-14 years . . . . .        | -25.0   | -40.0   | -45.9   | -28.8   |
| 15-24 years . . . . .       | -28.9   | -29.6   | -40.0   | -6.7    |
| 25-34 years . . . . .       | -16.7   | -32.5   | -44.0   | -13.8   |
| 35-44 years . . . . .       | -13.9   | -25.8   | -33.0   | -28.7   |
| 45-54 years . . . . .       | -4.9    | -17.2   | -20.9   | -22.3   |
| 55-64 years . . . . .       | -0.4    | -11.6   | -15.6   | -21.0   |
| 65-74 years . . . . .       | -5.8    | -12.5   | -10.5   | -19.6   |
| 75-84 years . . . . .       | -5.2    | -13.0   | -10.6   | -19.3   |
| 85 years and over . . . . . | -17.5   | -6.7    | -9.4    | -18.4   |

SOURCES: *Vital Statistics Rates in the United States, 1900-40*, table 6; 1940-60, table 63; unpublished trend tables, and final 1980 Mortality Statistics, *Monthly Vital Statistics Report*.

**Table B. Average annual percent change in death rates among persons 65 years of age and over for selected years, by sex and age: United States, 1940-80**

| Sex and age                              | 1940-54 | 1955-67 | 1968-80 |
|------------------------------------------|---------|---------|---------|
| Average annual percent change            |         |         |         |
| Both sexes                               |         |         |         |
| 65 years and over <sup>1</sup> . . . . . | -1.5    | -0.5    | -2.1    |
| 65-69 years . . . . .                    | -1.4    | -0.5    | -2.2    |
| 70-74 years . . . . .                    | -1.6    | -0.6    | -1.8    |
| 75-79 years . . . . .                    | -1.5    | -0.6    | -2.3    |
| 80-84 years . . . . .                    | -1.7    | -0.8    | -2.0    |
| 85 years and over . . . . .              | -1.4    | 0.3     | -1.9    |
| Male                                     |         |         |         |
| 65 years and over <sup>1</sup> . . . . . | -1.1    | 0.2     | -1.7    |
| 65-69 years . . . . .                    | -0.7    | 0.1     | -2.1    |
| 70-74 years . . . . .                    | -1.0    | 0.2     | -1.6    |
| 75-79 years . . . . .                    | -1.1    | 0.2     | -1.7    |
| 80-84 years . . . . .                    | -1.3    | -0.4    | -1.3    |
| 85 years and over . . . . .              | -1.5    | 0.9     | -1.4    |
| Female                                   |         |         |         |
| 65 years and over <sup>1</sup> . . . . . | -2.0    | -1.0    | -2.3    |
| 65-69 years . . . . .                    | -2.3    | -1.1    | -2.3    |
| 70-74 years . . . . .                    | -2.2    | -1.3    | -2.1    |
| 75-79 years . . . . .                    | -1.9    | -1.2    | -2.6    |
| 80-84 years . . . . .                    | -1.9    | -1.1    | -2.3    |
| 85 years and over . . . . .              | -1.3    | 0.0     | -2.1    |

<sup>1</sup>Age adjusted by the direct method to the population 65 years of age and over in the United States as enumerated in 1940, using 5 age groups.

**Table C. Average annual percent change in mortality-sex ratios<sup>1</sup> among persons 65 years of age and over for selected years, by age: United States, 1940-80**

| Year                          | 65 years and over <sup>2</sup> | 65-69 years | 70-74 years | 75-79 years | 80-84 years | 85 years and over |
|-------------------------------|--------------------------------|-------------|-------------|-------------|-------------|-------------------|
| Average annual percent change |                                |             |             |             |             |                   |
| 1940-54 . . . . .             | 0.9                            | 1.7         | 1.2         | 0.8         | 0.6         | -0.2              |
| 1955-67 . . . . .             | 1.2                            | 1.3         | 1.5         | 1.3         | 0.7         | 0.9               |
| 1968-80 . . . . .             | 0.6                            | 0.2         | 0.6         | 1.0         | 1.1         | 0.7               |

<sup>1</sup>Ratio of male death rate to female death rate.

<sup>2</sup>Age adjusted by the direct method to the population 65 years of age and over in the United States as enumerated in 1940, using 5 age groups.

**Table D. Average annual percent change in death rates among persons 65 years of age and over for Diseases of heart, by age, sex, and years: United States, 1950-80**

| Sex and years                 | 65-74 years | 75-84 years | 85 years and over |
|-------------------------------|-------------|-------------|-------------------|
| Average annual percent change |             |             |                   |
| Male                          |             |             |                   |
| 1950-54 . . . . .             | -1.0        | -1.2        | -2.6              |
| 1955-67 . . . . .             | 0.0         | -0.2        | 1.0               |
| 1968-80 . . . . .             | -2.5        | -2.0        | -1.5              |
| Female                        |             |             |                   |
| 1950-54 . . . . .             | -2.0        | -1.7        | -1.1              |
| 1955-67 . . . . .             | -1.3        | -1.1        | 0.1               |
| 1968-80 . . . . .             | -3.1        | -2.6        | -1.9              |

NOTES: ICD codes for 1950-67 are 400-402 and 410-443; ICDA codes for 1968-78 are 390-398, 402, 404, and 410-429; ICD codes for 1979-80 are 390-398, 402, 404-429.

**Table E. Percent of deaths from Malignant neoplasms among persons 65 years of age and over, by sex, age, selected year, and leading cancer site: United States, 1950 and 1980**

| Year, leading cancer site, and ICD code    | Male        |             |                   | Female      |             |                   |
|--------------------------------------------|-------------|-------------|-------------------|-------------|-------------|-------------------|
|                                            | 65-74 years | 75-84 years | 85 years and over | 65-74 years | 75-84 years | 85 years and over |
| 1980                                       |             |             |                   |             |             |                   |
| Percent                                    |             |             |                   |             |             |                   |
| Leading sites . . . . .                    | 56.3        | 56.1        | 54.2              | 58.1        | 51.3        | 48.1              |
| Cancer of lung . . . . . 162               | 36.9        | 27.3        | 15.5              | 16.9        | 10.4        | 7.3               |
| Cancer of colon . . . . . 153              | 9.6         | 11.2        | 12.9              | 12.4        | 16.3        | 18.1              |
| Cancer of breast . . . . . 174-175         | ...         | ...         | ...               | 16.7        | 14.0        | 13.5              |
| Cancer of genital organs . . . . . 179-187 | 9.8         | 17.6        | 25.8              | 12.1        | 10.6        | 9.2               |
| 1950                                       |             |             |                   |             |             |                   |
| Leading sites . . . . .                    | 36.3        | 39.7        | 40.6              | 51.4        | 48.1        | 46.6              |
| Cancer of lung . . . . . 162, 163          | 12.5        | 6.2         | 3.7               | 3.8         | 3.3         | 2.2               |
| Cancer of colon . . . . . 152, 153         | 10.7        | 11.6        | 10.8              | 14.1        | 17.1        | 18.5              |
| Cancer of breast . . . . . 170             | ...         | ...         | ...               | 15.5        | 14.0        | 15.0              |
| Cancer of genital organs . . . . . 171-179 | 13.1        | 21.9        | 26.1              | 18.0        | 13.7        | 10.9              |

**Table F. Average annual percent change in death rates among persons 65 years of age and over for Malignant neoplasms, by age, sex, and years: United States, 1950-80**

| Sex and years                 | 65-74 years | 75-84 years | 85 years and over |
|-------------------------------|-------------|-------------|-------------------|
| Average annual percent change |             |             |                   |
| Male                          |             |             |                   |
| 1950-54 . . . . .             | 1.5         | 1.0         | 0.2               |
| 1955-67 . . . . .             | 1.1         | 0.6         | 1.1               |
| 1968-80 . . . . .             | 0.8         | 1.3         | 1.7               |
| Female                        |             |             |                   |
| 1950-54 . . . . .             | -0.7        | -0.6        | -0.3              |
| 1955-67 . . . . .             | -0.5        | -0.9        | -0.4              |
| 1968-80 . . . . .             | 0.6         | 0.2         | 0.2               |

NOTE: ICD codes for 1950-67 are 140-205; ICDA codes for 1968-78 are 140-209; ICD codes for 1979-80 are 140-208.

**Table G. Average annual percent change in death rates among persons 65 years of age and over by selected cancer site, sex, year, and age: United States, 1950-80**

| <i>Cancer site, sex, and years</i> | <i>65-74 years</i>            | <i>75-84 years</i> | <i>85 years and over</i> |
|------------------------------------|-------------------------------|--------------------|--------------------------|
| <b>CANCER OF BREAST</b>            |                               |                    |                          |
|                                    | Average annual percent change |                    |                          |
| Female                             |                               |                    |                          |
| 1950-54 . . . . .                  | -0.1                          | -0.7               | -0.1                     |
| 1955-67 . . . . .                  | -0.2                          | -1.1               | -0.8                     |
| 1968-80 . . . . .                  | 0.6                           | 0.1                | -0.3                     |
| <b>CANCER OF LUNG</b>              |                               |                    |                          |
| Male                               |                               |                    |                          |
| 1950-54 . . . . .                  | 8.6                           | 8.3                | 5.2                      |
| 1955-67 . . . . .                  | 5.4                           | 6.8                | 6.9                      |
| 1968-80 . . . . .                  | 2.3                           | 4.2                | 5.5                      |
| Female                             |                               |                    |                          |
| 1950-54 . . . . .                  | 0.2                           | 0.7                | 2.0                      |
| 1955-67 . . . . .                  | 2.8                           | 1.5                | 3.6                      |
| 1968-80 . . . . .                  | 8.3                           | 5.7                | 4.2                      |
| <b>CANCER OF COLON</b>             |                               |                    |                          |
| Male                               |                               |                    |                          |
| 1950-54 . . . . .                  | -0.2                          | 0.9                | -0.3                     |
| 1955-67 . . . . .                  | 0.7                           | 0.6                | 1.4                      |
| 1968-80 . . . . .                  | 0.9                           | 1.0                | 2.2                      |
| Female                             |                               |                    |                          |
| 1950-54 . . . . .                  | -0.7                          | -1.2               | 0.5                      |
| 1955-67 . . . . .                  | -0.2                          | -0.6               | -0.4                     |
| 1967-80 . . . . .                  | -0.3                          | -0.2               | 0.0                      |
| <b>CANCER OF GENITAL ORGANS</b>    |                               |                    |                          |
| Male                               |                               |                    |                          |
| 1950-54 . . . . .                  | 0.9                           | 1.3                | 1.9                      |
| 1955-67 . . . . .                  | -0.4                          | -0.5               | 0.8                      |
| 1968-80 . . . . .                  | 0.3                           | 0.8                | 1.7                      |
| Female                             |                               |                    |                          |
| 1950-54 . . . . .                  | -1.4                          | -0.8               | -1.7                     |
| 1955-67 . . . . .                  | -1.0                          | -1.3               | -1.1                     |
| 1968-80 . . . . .                  | -1.5                          | -1.1               | -0.8                     |

NOTES: ICD codes for cancer of the breast are for 1950-67, 170 and ICDA codes for 1968-78, 1974; for 1979-80, 174-175; for cancer of the lung 1950-67, 162-163 and for 1968-80, 162; for cancer of the colon 1950-57, 152-153 and for 1958-80, 153; and for cancer of the genital organs for 1950-67, 171-179, for 1968-78, 180-187, and ICD codes for 1979-80, 179-187.

**Table H. Average annual percent change in death rates among persons 65 years of age and over for Cerebrovascular diseases, by age, sex, and years: United States, 1950-80**

| <i>Sex and years</i> | <i>65-74 years</i>            | <i>75-84 years</i> | <i>85 years and over</i> |
|----------------------|-------------------------------|--------------------|--------------------------|
|                      | Average annual percent change |                    |                          |
| Male                 |                               |                    |                          |
| 1950-54 . . . . .    | -1.7                          | -0.3               | -1.1                     |
| 1955-67 . . . . .    | -1.6                          | -1.0               | 1.0                      |
| 1968-80 . . . . .    | -5.4                          | -4.4               | -4.1                     |
| Female               |                               |                    |                          |
| 1950-54 . . . . .    | -2.8                          | -0.9               | 1.8                      |
| 1955-67 . . . . .    | -2.5                          | -1.5               | 0.4                      |
| 1968-80 . . . . .    | -5.4                          | -4.5               | -3.8                     |

NOTES: ICD codes for 1950-67 are 330-334; ICD codes for 1968-78 are 430-438, and ICD codes for 1979-80 are 430-438.

**Table N. Average annual percent change in death rates among persons 65 years of age and over based on Medicare data and National Center for Health Statistics data, by age and sex: United States, 1968-80**

| Sex            | 65-69<br>years                | 70-74<br>years | 75-79<br>years | 80-84<br>years | 85 years<br>and over |
|----------------|-------------------------------|----------------|----------------|----------------|----------------------|
| Male           |                               |                |                |                |                      |
|                | Average annual percent change |                |                |                |                      |
| Medicare ..... | -1.6                          | -1.5           | -1.4           | -1.5           | -1.3                 |
| NCHS .....     | -2.1                          | -1.6           | -1.7           | -1.3           | -1.4                 |
| Female         |                               |                |                |                |                      |
| Medicare ..... | -1.4                          | -2.1           | -2.4           | -2.4           | -1.9                 |
| NCHS .....     | -2.3                          | -2.1           | -2.6           | -2.3           | -2.1                 |

SOURCES: Unpublished data: Office of the Actuary, Social Security Administration, and unpublished data: Division of Vital Statistics, National Center for Health Statistics.

**Table O. Number and percent distribution of persons 65 years of age and over in 1982 and alternative projections to the year 2000, according to age: United States**

| Age                     | 1982                      |                              | Projection A              |                              | Projection B              |                              | Projection C              |                              |
|-------------------------|---------------------------|------------------------------|---------------------------|------------------------------|---------------------------|------------------------------|---------------------------|------------------------------|
|                         | Number<br>in<br>thousands | Percent<br>distri-<br>bution | Number<br>in<br>thousands | Percent<br>distri-<br>bution | Number<br>in<br>thousands | Percent<br>distri-<br>bution | Number<br>in<br>thousands | Percent<br>distri-<br>bution |
| 65 years and over ..... | 26,824                    | 100.0                        | 35,036                    | 100.0                        | 35,979                    | 100.0                        | 36,697                    | 100.0                        |
| 65-69 years .....       | 8,939                     | 33.3                         | 9,110                     | 26.0                         | 9,340                     | 26.0                         | 9,531                     | 26.0                         |
| 70-74 years .....       | 7,195                     | 26.8                         | 8,583                     | 24.5                         | 8,738                     | 24.3                         | 8,900                     | 24.3                         |
| 75-79 years .....       | 5,106                     | 19.0                         | 7,242                     | 20.7                         | 7,578                     | 21.1                         | 7,324                     | 20.0                         |
| 80-84 years .....       | 3,138                     | 11.7                         | 4,965                     | 14.2                         | 5,148                     | 14.3                         | 4,994                     | 13.6                         |
| 85 years and over ..... | 2,445                     | 9.1                          | 5,136                     | 14.7                         | 5,175                     | 14.4                         | 5,948                     | 16.2                         |

SOURCES: 1982 Population. U.S. Bureau of the Census: Estimates of the population of the United States, by age, sex, and race: 1980 to 1982. *Current Population Reports*, Series P-25, No. 929, May 1983.

Projection A. U.S. Bureau of the Census: Projections of the population of the United States: 1982-2050. *Current Population Reports*, Series P-25, No. 922, October 1982.

Projection B. Social Security Administration: *Social Security Area Populations Projections, 1983*. Actuarial study No. 88. SSA Pub. No. 11-11535, Aug. 1983 (modified to omit that portion of the Social Security area population not included in projections of U.S. population).

Projection C. Unpublished projections prepared by NCHS. (based on Ref. 6)

Table 1. Death rates among persons 65 years of age and over, by age: United States, 1940-80

| Year | 65-69<br>years              | 70-74<br>years | 75-79<br>years | 80-84<br>years | 85 years<br>and over |
|------|-----------------------------|----------------|----------------|----------------|----------------------|
|      | Deaths per 1,000 population |                |                |                |                      |
| 1940 | 39.7                        | 61.1           | 94.8           | 145.6          | 235.7                |
| 1941 | 37.9                        | 58.2           | 88.4           | 139.6          | 218.7                |
| 1942 | 37.0                        | 56.5           | 84.9           | 134.3          | 211.1                |
| 1943 | 37.5                        | 58.8           | 89.9           | 142.2          | 230.3                |
| 1944 | 35.7                        | 55.9           | 85.9           | 133.0          | 215.3                |
| 1945 | 34.8                        | 53.9           | 84.5           | 125.7          | 209.6                |
| 1946 | 33.5                        | 52.2           | 82.3           | 120.1          | 210.6                |
| 1947 | 34.2                        | 53.5           | 84.0           | 121.8          | 216.9                |
| 1948 | 33.8                        | 52.3           | 82.5           | 118.8          | 213.2                |
| 1949 | 33.5                        | 51.3           | 80.6           | 116.3          | 203.2                |
| 1950 | 33.8                        | 51.5           | 78.9           | 120.9          | 202.0                |
| 1951 | 33.0                        | 50.3           | 78.2           | 119.1          | 197.6                |
| 1952 | 32.6                        | 49.2           | 76.4           | 117.4          | 190.6                |
| 1953 | 32.7                        | 49.0           | 75.8           | 118.9          | 191.9                |
| 1954 | 31.4                        | 46.9           | 72.1           | 112.3          | 181.6                |
| 1955 | 31.7                        | 47.0           | 73.7           | 114.7          | 189.8                |
| 1956 | 31.7                        | 46.7           | 73.1           | 115.2          | 192.3                |
| 1957 | 32.6                        | 47.7           | 73.1           | 115.9          | 197.9                |
| 1958 | 31.9                        | 47.0           | 72.9           | 116.2          | 198.0                |
| 1959 | 31.1                        | 46.1           | 71.0           | 114.1          | 194.2                |
| 1960 | 31.4                        | 47.2           | 72.0           | 117.2          | 198.6                |
| 1961 | 30.7                        | 45.0           | 69.5           | 111.3          | 196.3                |
| 1962 | 31.1                        | 45.4           | 70.7           | 111.7          | 204.9                |
| 1963 | 31.3                        | 46.1           | 71.9           | 112.8          | 209.9                |
| 1964 | 30.3                        | 44.5           | 69.4           | 108.0          | 199.2                |
| 1965 | 30.5                        | 44.2           | 69.8           | 108.1          | 200.7                |
| 1966 | 30.6                        | 44.9           | 69.8           | 107.8          | 199.8                |
| 1967 | 29.9                        | 44.1           | 67.8           | 104.0          | 192.2                |
| 1968 | 30.8                        | 45.3           | 69.5           | 106.4          | 195.8                |
| 1969 | 30.2                        | 44.1           | 67.3           | 104.6          | 188.2                |
| 1970 | 29.7                        | 43.7           | 67.2           | 101.6          | 175.4                |
| 1971 | 28.6                        | 42.9           | 65.3           | 98.3           | 175.7                |
| 1972 | 28.7                        | 43.9           | 65.8           | 97.9           | 175.4                |
| 1973 | 28.0                        | 43.0           | 64.8           | 96.3           | 176.8                |
| 1974 | 26.9                        | 41.9           | 61.4           | 92.9           | 169.0                |
| 1975 | 25.6                        | 40.4           | 58.5           | 88.9           | 156.6                |
| 1976 | 25.3                        | 39.4           | 57.7           | 87.9           | 160.6                |
| 1977 | 24.7                        | 38.4           | 56.0           | 85.5           | 153.7                |
| 1978 | 24.5                        | 37.8           | 55.0           | 86.6           | 154.8                |
| 1979 | 23.9                        | 36.4           | 53.3           | 84.1           | 149.6                |
| 1980 | 24.6                        | 36.8           | 55.0           | 86.4           | 159.8                |

Table 2. Death rates among males 65 years of age and over, by age: United States, 1940-80

| Year | 65-69<br>years         | 70-74<br>years | 75-79<br>years | 80-84<br>years | 85 years<br>and over |
|------|------------------------|----------------|----------------|----------------|----------------------|
|      | Deaths per 1,000 males |                |                |                |                      |
| 1940 | 45.5                   | 68.0           | 103.7          | 156.6          | 246.4                |
| 1941 | 43.9                   | 65.5           | 97.2           | 151.8          | 231.9                |
| 1942 | 43.1                   | 63.3           | 93.7           | 146.1          | 222.1                |
| 1943 | 43.5                   | 66.0           | 99.0           | 154.6          | 242.6                |
| 1944 | 41.6                   | 62.9           | 94.8           | 143.6          | 225.5                |
| 1945 | 41.0                   | 61.0           | 93.7           | 136.6          | 220.7                |
| 1946 | 39.7                   | 59.0           | 91.4           | 129.9          | 221.1                |
| 1947 | 41.0                   | 61.3           | 93.9           | 132.0          | 229.3                |
| 1948 | 40.9                   | 60.4           | 92.7           | 129.6          | 226.4                |
| 1949 | 40.8                   | 59.6           | 91.3           | 128.1          | 215.0                |
| 1950 | 41.6                   | 60.6           | 89.6           | 133.4          | 216.4                |
| 1951 | 41.1                   | 59.7           | 89.1           | 132.1          | 208.2                |
| 1952 | 40.7                   | 58.3           | 87.3           | 132.5          | 196.7                |
| 1953 | 41.0                   | 58.5           | 87.1           | 134.4          | 199.2                |
| 1954 | 39.8                   | 56.7           | 83.3           | 127.5          | 187.4                |
| 1955 | 40.2                   | 57.5           | 85.4           | 130.3          | 195.9                |
| 1956 | 40.5                   | 57.5           | 85.3           | 131.3          | 200.5                |
| 1957 | 42.0                   | 59.0           | 85.6           | 131.4          | 207.3                |
| 1958 | 41.4                   | 58.2           | 85.9           | 132.0          | 208.3                |
| 1959 | 40.7                   | 57.6           | 84.0           | 129.5          | 205.4                |
| 1960 | 41.4                   | 59.5           | 86.2           | 133.7          | 211.9                |
| 1961 | 40.8                   | 56.9           | 83.9           | 127.9          | 210.8                |
| 1962 | 41.6                   | 57.8           | 85.6           | 128.7          | 222.5                |
| 1963 | 42.4                   | 59.6           | 88.1           | 131.3          | 229.4                |
| 1964 | 41.0                   | 58.0           | 85.6           | 126.4          | 216.4                |
| 1965 | 41.4                   | 58.3           | 87.0           | 128.1          | 220.8                |
| 1966 | 41.7                   | 59.4           | 87.4           | 128.0          | 220.1                |
| 1967 | 40.7                   | 59.1           | 85.8           | 124.6          | 213.4                |
| 1968 | 42.2                   | 61.3           | 88.4           | 127.6          | 217.3                |
| 1969 | 41.6                   | 59.6           | 86.4           | 126.8          | 208.8                |
| 1970 | 41.2                   | 58.9           | 86.8           | 123.9          | 197.7                |
| 1971 | 39.8                   | 58.2           | 85.1           | 121.4          | 199.0                |
| 1972 | 39.9                   | 59.8           | 86.5           | 122.2          | 198.2                |
| 1973 | 39.3                   | 58.8           | 85.4           | 121.0          | 200.7                |
| 1974 | 37.9                   | 57.3           | 81.6           | 116.9          | 192.8                |
| 1975 | 36.3                   | 55.6           | 78.5           | 113.5          | 181.3                |
| 1976 | 35.7                   | 54.4           | 77.9           | 112.2          | 186.7                |
| 1977 | 34.6                   | 53.3           | 76.1           | 110.5          | 180.7                |
| 1978 | 34.3                   | 52.6           | 74.6           | 112.5          | 182.1                |
| 1979 | 33.2                   | 50.7           | 72.4           | 109.7          | 176.0                |
| 1980 | 33.9                   | 50.8           | 74.8           | 112.4          | 188.0                |

Table 3. Death rates among females 65 years of age and over, by age: United States, 1940-80

| Year | <i>65-69</i><br>years    | <i>70-74</i><br>years | <i>75-79</i><br>years | <i>80-84</i><br>years | <i>85 years</i><br><i>and over</i> |
|------|--------------------------|-----------------------|-----------------------|-----------------------|------------------------------------|
|      | Deaths per 1,000 females |                       |                       |                       |                                    |
| 1940 | 33.9                     | 54.3                  | 86.5                  | 136.0                 | 227.6                              |
| 1941 | 32.0                     | 51.1                  | 80.3                  | 129.2                 | 208.8                              |
| 1942 | 30.9                     | 49.8                  | 77.0                  | 124.3                 | 202.9                              |
| 1943 | 31.7                     | 51.8                  | 81.7                  | 131.9                 | 221.2                              |
| 1944 | 29.9                     | 49.3                  | 77.8                  | 124.3                 | 207.8                              |
| 1945 | 28.9                     | 47.0                  | 76.3                  | 116.7                 | 201.3                              |
| 1946 | 27.6                     | 45.8                  | 74.2                  | 112.0                 | 203.0                              |
| 1947 | 27.7                     | 46.2                  | 75.2                  | 113.2                 | 207.2                              |
| 1948 | 27.0                     | 44.7                  | 73.5                  | 110.0                 | 203.1                              |
| 1949 | 26.6                     | 43.6                  | 71.1                  | 106.6                 | 194.4                              |
| 1950 | 26.4                     | 43.2                  | 69.6                  | 110.7                 | 191.9                              |
| 1951 | 25.4                     | 41.8                  | 68.8                  | 108.6                 | 190.1                              |
| 1952 | 25.0                     | 41.0                  | 67.1                  | 105.7                 | 186.1                              |
| 1953 | 24.9                     | 40.5                  | 66.0                  | 107.1                 | 186.6                              |
| 1954 | 23.7                     | 38.2                  | 62.7                  | 100.6                 | 177.4                              |
| 1955 | 23.9                     | 37.7                  | 63.8                  | 102.9                 | 185.5                              |
| 1956 | 23.7                     | 37.3                  | 63.0                  | 103.2                 | 186.6                              |
| 1957 | 24.1                     | 37.8                  | 62.9                  | 104.4                 | 191.5                              |
| 1958 | 23.4                     | 37.3                  | 62.2                  | 104.6                 | 191.0                              |
| 1959 | 22.7                     | 36.2                  | 60.5                  | 102.9                 | 186.8                              |
| 1960 | 22.6                     | 36.7                  | 60.7                  | 105.3                 | 190.1                              |
| 1961 | 21.9                     | 35.0                  | 58.2                  | 99.5                  | 186.9                              |
| 1962 | 22.0                     | 35.1                  | 59.0                  | 99.7                  | 194.0                              |
| 1963 | 22.0                     | 35.2                  | 59.4                  | 99.8                  | 197.9                              |
| 1964 | 21.4                     | 33.7                  | 57.1                  | 95.4                  | 189.1                              |
| 1965 | 21.4                     | 33.1                  | 57.0                  | 94.7                  | 189.0                              |
| 1966 | 21.5                     | 33.6                  | 56.9                  | 94.3                  | 188.5                              |
| 1967 | 21.0                     | 32.7                  | 54.8                  | 90.6                  | 180.4                              |
| 1968 | 21.5                     | 33.3                  | 56.1                  | 92.8                  | 184.3                              |
| 1969 | 20.9                     | 32.6                  | 54.0                  | 90.6                  | 177.1                              |
| 1970 | 20.4                     | 32.4                  | 53.8                  | 87.7                  | 163.5                              |
| 1971 | 19.5                     | 31.7                  | 51.9                  | 84.4                  | 163.5                              |
| 1972 | 19.7                     | 32.6                  | 52.0                  | 83.6                  | 163.8                              |
| 1973 | 18.9                     | 31.5                  | 51.2                  | 82.0                  | 164.8                              |
| 1974 | 18.1                     | 30.6                  | 48.4                  | 79.2                  | 157.2                              |
| 1975 | 17.2                     | 29.4                  | 45.7                  | 75.0                  | 144.5                              |
| 1976 | 17.0                     | 28.5                  | 44.9                  | 74.2                  | 148.3                              |
| 1977 | 16.8                     | 27.5                  | 43.3                  | 71.7                  | 141.3                              |
| 1978 | 16.7                     | 27.1                  | 42.6                  | 72.5                  | 142.5                              |
| 1979 | 16.4                     | 26.2                  | 41.3                  | 70.4                  | 137.9                              |
| 1980 | 17.2                     | 26.7                  | 42.6                  | 72.6                  | 147.5                              |

Table 4. Mortality-sex ratios<sup>1</sup> among persons 65 years of age and over, by age: United States, 1940-80

| Year | 65 years<br>and over <sup>2</sup> | 65-69<br>years | 70-74<br>years | 75-79<br>years | 80-84<br>years | 85 years<br>and over |
|------|-----------------------------------|----------------|----------------|----------------|----------------|----------------------|
|      | Ratio                             |                |                |                |                |                      |
| 1940 | 1.22                              | 1.34           | 1.25           | 1.20           | 1.15           | 1.08                 |
| 1941 | 1.24                              | 1.37           | 1.28           | 1.21           | 1.17           | 1.11                 |
| 1942 | 1.24                              | 1.39           | 1.27           | 1.22           | 1.18           | 1.09                 |
| 1943 | 1.24                              | 1.37           | 1.27           | 1.21           | 1.17           | 1.10                 |
| 1944 | 1.24                              | 1.39           | 1.28           | 1.22           | 1.16           | 1.09                 |
| 1945 | 1.26                              | 1.42           | 1.30           | 1.23           | 1.17           | 1.10                 |
| 1946 | 1.25                              | 1.44           | 1.29           | 1.23           | 1.16           | 1.09                 |
| 1947 | 1.28                              | 1.48           | 1.33           | 1.25           | 1.17           | 1.11                 |
| 1948 | 1.30                              | 1.51           | 1.35           | 1.26           | 1.18           | 1.11                 |
| 1949 | 1.32                              | 1.53           | 1.37           | 1.28           | 1.20           | 1.11                 |
| 1950 | 1.34                              | 1.58           | 1.40           | 1.29           | 1.21           | 1.13                 |
| 1951 | 1.35                              | 1.62           | 1.43           | 1.30           | 1.22           | 1.10                 |
| 1952 | 1.35                              | 1.63           | 1.42           | 1.30           | 1.25           | 1.06                 |
| 1953 | 1.37                              | 1.65           | 1.44           | 1.32           | 1.25           | 1.07                 |
| 1954 | 1.39                              | 1.68           | 1.48           | 1.33           | 1.27           | 1.06                 |
| 1955 | 1.39                              | 1.68           | 1.53           | 1.34           | 1.27           | 1.06                 |
| 1956 | 1.41                              | 1.71           | 1.54           | 1.35           | 1.27           | 1.07                 |
| 1957 | 1.42                              | 1.74           | 1.56           | 1.36           | 1.26           | 1.08                 |
| 1958 | 1.43                              | 1.77           | 1.56           | 1.38           | 1.26           | 1.09                 |
| 1959 | 1.44                              | 1.79           | 1.59           | 1.39           | 1.26           | 1.10                 |
| 1960 | 1.47                              | 1.83           | 1.62           | 1.42           | 1.27           | 1.11                 |
| 1961 | 1.49                              | 1.86           | 1.63           | 1.44           | 1.29           | 1.13                 |
| 1962 | 1.50                              | 1.89           | 1.65           | 1.45           | 1.29           | 1.15                 |
| 1963 | 1.53                              | 1.93           | 1.69           | 1.48           | 1.32           | 1.16                 |
| 1964 | 1.54                              | 1.92           | 1.72           | 1.50           | 1.32           | 1.14                 |
| 1965 | 1.57                              | 1.93           | 1.76           | 1.53           | 1.35           | 1.17                 |
| 1966 | 1.57                              | 1.94           | 1.77           | 1.54           | 1.36           | 1.17                 |
| 1967 | 1.59                              | 1.94           | 1.81           | 1.57           | 1.38           | 1.18                 |
| 1968 | 1.61                              | 1.96           | 1.84           | 1.58           | 1.38           | 1.18                 |
| 1969 | 1.62                              | 1.99           | 1.83           | 1.60           | 1.40           | 1.18                 |
| 1970 | 1.64                              | 2.02           | 1.82           | 1.61           | 1.41           | 1.21                 |
| 1971 | 1.66                              | 2.04           | 1.84           | 1.64           | 1.44           | 1.22                 |
| 1972 | 1.67                              | 2.03           | 1.83           | 1.66           | 1.46           | 1.21                 |
| 1973 | 1.69                              | 2.08           | 1.87           | 1.67           | 1.48           | 1.22                 |
| 1974 | 1.70                              | 2.09           | 1.87           | 1.69           | 1.48           | 1.23                 |
| 1975 | 1.72                              | 2.11           | 1.89           | 1.72           | 1.51           | 1.25                 |
| 1976 | 1.73                              | 2.10           | 1.91           | 1.73           | 1.51           | 1.26                 |
| 1977 | 1.74                              | 2.06           | 1.94           | 1.76           | 1.54           | 1.28                 |
| 1978 | 1.74                              | 2.05           | 1.94           | 1.75           | 1.55           | 1.28                 |
| 1979 | 1.73                              | 2.02           | 1.94           | 1.75           | 1.56           | 1.28                 |
| 1980 | 1.71                              | 1.97           | 1.90           | 1.76           | 1.55           | 1.27                 |

<sup>1</sup>Ratio of male death rate to female death rate.

<sup>2</sup>Age adjusted by the direct method to the population 65 years of age and over as enumerated in 1940 using 5 age groups.

SOURCE: Data derived from tables 2 and 3.



Table 5. Death rates among persons 65 years of age and over for Diseases of heart, by sex and age: United States, 1950-80

| Year | Male                          |             |                   | Female      |             |                   |
|------|-------------------------------|-------------|-------------------|-------------|-------------|-------------------|
|      | 65-74 years                   | 75-84 years | 85 years and over | 65-74 years | 75-84 years | 85 years and over |
|      | Deaths per 100,000 population |             |                   |             |             |                   |
| 1950 | 2,310.1                       | 4,825.0     | 9,654.4           | 1,435.0     | 3,873.0     | 8,800.0           |
| 1951 | 2,256.6                       | 4,811.1     | 9,375.4           | 1,375.4     | 3,796.1     | 8,687.8           |
| 1952 | 2,236.2                       | 4,733.5     | 8,817.9           | 1,369.1     | 3,760.9     | 8,549.9           |
| 1953 | 2,263.2                       | 4,760.6     | 9,008.7           | 1,366.2     | 3,762.2     | 8,631.3           |
| 1954 | 2,189.3                       | 4,562.6     | 8,637.2           | 1,303.5     | 3,570.8     | 8,354.8           |
| 1955 | 2,224.8                       | 4,713.5     | 9,044.7           | 1,302.2     | 3,686.4     | 8,826.9           |
| 1956 | 2,246.0                       | 4,745.7     | 9,288.4           | 1,306.4     | 3,688.6     | 8,934.7           |
| 1957 | 2,295.1                       | 4,735.6     | 9,596.4           | 1,328.3     | 3,694.3     | 9,121.9           |
| 1958 | 2,275.9                       | 4,741.3     | 9,683.4           | 1,295.0     | 3,663.6     | 9,063.2           |
| 1959 | 2,248.9                       | 4,633.1     | 9,540.6           | 1,259.6     | 3,561.5     | 8,922.5           |
| 1960 | 2,291.3                       | 4,742.4     | 9,788.9           | 1,261.3     | 3,582.7     | 9,016.8           |
| 1961 | 2,236.9                       | 4,617.7     | 9,816.4           | 1,215.6     | 3,438.0     | 8,895.1           |
| 1962 | 2,274.3                       | 4,701.3     | 10,414.7          | 1,228.8     | 3,489.6     | 9,288.0           |
| 1963 | 2,316.3                       | 4,807.5     | 10,686.2          | 1,218.6     | 3,480.4     | 9,498.1           |
| 1964 | 2,250.3                       | 4,620.4     | 10,086.8          | 1,174.9     | 3,356.7     | 9,144.6           |
| 1965 | 2,237.6                       | 4,695.5     | 10,312.1          | 1,157.2     | 3,347.2     | 9,088.2           |
| 1966 | 2,270.8                       | 4,676.8     | 10,244.5          | 1,168.8     | 3,334.1     | 9,014.6           |
| 1967 | 2,220.7                       | 4,554.9     | 9,968.3           | 1,131.0     | 3,207.3     | 8,686.6           |
| 1968 | 2,257.5                       | 4,652.6     | 10,078.0          | 1,140.9     | 3,259.2     | 8,850.1           |
| 1969 | 2,208.2                       | 4,584.0     | 9,829.2           | 1,104.0     | 3,170.4     | 8,606.4           |
| 1970 | 2,170.3                       | 4,534.8     | 9,346.0           | 1,082.7     | 3,120.8     | 8,000.9           |
| 1971 | 2,112.3                       | 4,446.0     | 9,481.0           | 1,042.4     | 3,031.2     | 8,044.6           |
| 1972 | 2,115.2                       | 4,453.6     | 9,309.6           | 1,042.9     | 3,013.6     | 8,054.5           |
| 1973 | 2,066.4                       | 4,412.1     | 9,429.7           | 991.3       | 2,942.4     | 8,035.3           |
| 1974 | 1,986.9                       | 4,172.0     | 9,086.0           | 944.2       | 2,788.6     | 7,702.8           |
| 1975 | 1,884.6                       | 3,996.7     | 8,432.3           | 887.0       | 2,611.7     | 7,057.5           |
| 1976 | 1,845.2                       | 3,948.5     | 8,588.9           | 852.5       | 2,579.1     | 7,219.1           |
| 1977 | 1,792.8                       | 3,870.7     | 8,412.9           | 827.2       | 2,492.5     | 6,943.0           |
| 1978 | 1,760.0                       | 3,826.0     | 8,431.7           | 818.3       | 2,475.2     | 7,020.4           |
| 1979 | 1,714.8                       | 3,744.4     | 8,240.5           | 805.8       | 2,439.8     | 6,897.8           |
| 1980 | 1,728.0                       | 3,834.3     | 8,752.7           | 828.6       | 2,497.0     | 7,350.5           |

NOTE: ICD codes for 1950-67 are 400-402 and 410-443; ICDA codes for 1968-78 are 390-898, 402, 404, and 410-429, and ICD codes for 1979-80 are 390-398, 402, 404-429.

Table 6. Mortality-sex ratios<sup>1</sup> among persons 65 years of age and over for Diseases of heart, by age: United States, 1950-80

| <i>Year</i> | <i>65-74<br/>years</i> | <i>75-84<br/>years</i> | <i>85 years<br/>and over</i> |
|-------------|------------------------|------------------------|------------------------------|
|             |                        | Ratio                  |                              |
| 1950        | 1.61                   | 1.25                   | 1.10                         |
| 1951        | 1.64                   | 1.27                   | 1.08                         |
| 1952        | 1.63                   | 1.26                   | 1.03                         |
| 1953        | 1.66                   | 1.27                   | 1.04                         |
| 1954        | 1.68                   | 1.28                   | 1.03                         |
| 1955        | 1.71                   | 1.28                   | 1.02                         |
| 1956        | 1.72                   | 1.29                   | 1.04                         |
| 1957        | 1.73                   | 1.28                   | 1.05                         |
| 1958        | 1.76                   | 1.29                   | 1.07                         |
| 1959        | 1.79                   | 1.30                   | 1.07                         |
| 1960        | 1.82                   | 1.32                   | 1.09                         |
| 1961        | 1.84                   | 1.34                   | 1.10                         |
| 1962        | 1.85                   | 1.35                   | 1.12                         |
| 1963        | 1.90                   | 1.38                   | 1.13                         |
| 1964        | 1.92                   | 1.38                   | 1.10                         |
| 1965        | 1.93                   | 1.40                   | 1.13                         |
| 1966        | 1.94                   | 1.40                   | 1.14                         |
| 1967        | 1.96                   | 1.42                   | 1.15                         |
| 1968        | 1.98                   | 1.43                   | 1.14                         |
| 1969        | 2.00                   | 1.45                   | 1.14                         |
| 1970        | 2.00                   | 1.45                   | 1.17                         |
| 1971        | 2.03                   | 1.47                   | 1.18                         |
| 1972        | 2.03                   | 1.48                   | 1.16                         |
| 1973        | 2.08                   | 1.50                   | 1.17                         |
| 1974        | 2.10                   | 1.50                   | 1.18                         |
| 1975        | 2.12                   | 1.53                   | 1.19                         |
| 1976        | 2.16                   | 1.53                   | 1.19                         |
| 1977        | 2.17                   | 1.55                   | 1.21                         |
| 1978        | 2.15                   | 1.55                   | 1.20                         |
| 1979        | 2.13                   | 1.53                   | 1.19                         |
| 1980        | 2.09                   | 1.54                   | 1.19                         |

<sup>1</sup>Ratio of male death rate to female death rate.

SOURCE: Data derived from table 5.

Table 7. Death rates among persons 65 years of age and over for Malignant neoplasms, by sex and age: United States, 1950-80

| Year | Male                          |             |                   | Female      |             |                   |
|------|-------------------------------|-------------|-------------------|-------------|-------------|-------------------|
|      | 65-74 years                   | 75-84 years | 85 years and over | 65-74 years | 75-84 years | 85 years and over |
|      | Deaths per 100,000 population |             |                   |             |             |                   |
| 1950 | 791.5                         | 1,332.6     | 1,668.3           | 612.3       | 1,000.7     | 1,299.7           |
| 1951 | 788.5                         | 1,307.3     | 1,689.1           | 592.1       | 987.0       | 1,284.2           |
| 1952 | 809.1                         | 1,349.2     | 1,665.6           | 594.8       | 990.2       | 1,304.7           |
| 1953 | 815.0                         | 1,358.9     | 1,677.9           | 594.6       | 986.3       | 1,296.5           |
| 1954 | 839.4                         | 1,371.6     | 1,688.8           | 589.4       | 972.5       | 1,275.3           |
| 1955 | 851.0                         | 1,373.9     | 1,691.0           | 585.7       | 962.7       | 1,303.3           |
| 1956 | 849.3                         | 1,416.6     | 1,767.9           | 578.2       | 957.3       | 1,286.0           |
| 1957 | 879.3                         | 1,384.5     | 1,753.4           | 573.2       | 945.9       | 1,309.7           |
| 1958 | 862.5                         | 1,358.6     | 1,704.9           | 571.2       | 919.4       | 1,268.6           |
| 1959 | 872.8                         | 1,356.4     | 1,762.8           | 560.5       | 903.2       | 1,241.1           |
| 1960 | 890.5                         | 1,389.4     | 1,741.2           | 560.2       | 924.1       | 1,263.9           |
| 1961 | 902.4                         | 1,394.8     | 1,840.8           | 557.9       | 891.9       | 1,273.5           |
| 1962 | 907.7                         | 1,387.2     | 1,879.7           | 555.0       | 885.4       | 1,264.3           |
| 1963 | 929.8                         | 1,405.2     | 1,923.9           | 551.0       | 881.2       | 1,280.7           |
| 1964 | 925.9                         | 1,416.6     | 1,840.3           | 542.6       | 868.2       | 1,238.9           |
| 1965 | 946.1                         | 1,451.6     | 1,911.1           | 549.4       | 874.6       | 1,234.9           |
| 1966 | 955.4                         | 1,477.9     | 1,905.4           | 551.0       | 872.5       | 1,252.9           |
| 1967 | 976.8                         | 1,505.2     | 1,919.0           | 557.3       | 867.1       | 1,215.0           |
| 1968 | 998.2                         | 1,520.1     | 1,936.1           | 553.1       | 869.4       | 1,223.6           |
| 1969 | 997.3                         | 1,541.1     | 1,952.9           | 552.6       | 871.5       | 1,202.5           |
| 1970 | 1,006.8                       | 1,588.3     | 1,908.6           | 557.9       | 891.9       | 1,155.8           |
| 1971 | 1,018.0                       | 1,598.6     | 1,968.6           | 556.3       | 865.8       | 1,182.8           |
| 1972 | 1,035.5                       | 1,623.2     | 1,939.5           | 570.2       | 858.6       | 1,186.7           |
| 1973 | 1,032.8                       | 1,626.1     | 2,044.2           | 561.8       | 859.6       | 1,159.8           |
| 1974 | 1,044.1                       | 1,662.0     | 2,026.9           | 564.0       | 866.3       | 1,158.7           |
| 1975 | 1,050.6                       | 1,662.1     | 2,051.0           | 560.7       | 866.9       | 1,162.2           |
| 1976 | 1,058.7                       | 1,701.3     | 2,119.5           | 573.5       | 871.6       | 1,201.2           |
| 1977 | 1,066.1                       | 1,715.6     | 2,196.2           | 578.2       | 879.1       | 1,193.0           |
| 1978 | 1,075.7                       | 1,741.1     | 2,255.2           | 585.3       | 890.2       | 1,198.5           |
| 1979 | 1,080.2                       | 1,750.4     | 2,268.3           | 585.6       | 885.8       | 1,191.6           |
| 1980 | 1,093.2                       | 1,790.5     | 2,369.5           | 607.1       | 903.1       | 1,255.7           |

NOTE: ICD codes for 1950-67 are 140-205; ICDA codes for 1968-78 are 140-209, and ICD codes for 1979-80 are 140-208.

Table 8. Death rates among persons 65 years of age and over for cancer of colon, by sex and age: United States, 1950-80

| Year | Male                          |             |                   | Female      |             |                   |
|------|-------------------------------|-------------|-------------------|-------------|-------------|-------------------|
|      | 65-74 years                   | 75-84 years | 85 years and over | 65-74 years | 75-84 years | 85 years and over |
|      | Deaths per 100,000 population |             |                   |             |             |                   |
| 1950 | 84.9                          | 155.0       | 181.0             | 86.1        | 171.6       | 240.0             |
| 1951 | 85.6                          | 151.1       | 194.9             | 83.3        | 168.8       | 230.8             |
| 1952 | 87.1                          | 159.1       | 178.8             | 82.0        | 165.9       | 231.0             |
| 1953 | 85.0                          | 158.1       | 191.3             | 81.8        | 163.7       | 241.0             |
| 1954 | 84.2                          | 158.4       | 179.9             | 83.7        | 164.2       | 240.9             |
| 1955 | 85.9                          | 158.4       | 202.8             | 83.9        | 162.5       | 245.9             |
| 1956 | 87.5                          | 169.1       | 200.6             | 81.9        | 161.4       | 227.4             |
| 1957 | 89.4                          | 162.7       | 209.2             | 81.6        | 159.6       | 243.5             |
| 1958 | 87.4                          | 160.2       | 205.4             | 81.2        | 155.2       | 250.2             |
| 1959 | 87.5                          | 160.9       | 214.6             | 79.8        | 159.4       | 231.1             |
| 1960 | 86.7                          | 164.0       | 205.6             | 79.6        | 159.6       | 232.6             |
| 1961 | 89.6                          | 165.3       | 215.8             | 79.6        | 157.9       | 235.8             |
| 1962 | 88.3                          | 159.0       | 242.8             | 81.8        | 153.4       | 233.9             |
| 1963 | 90.5                          | 162.3       | 224.1             | 80.1        | 155.8       | 242.6             |
| 1964 | 88.7                          | 170.6       | 215.0             | 80.5        | 152.2       | 230.0             |
| 1965 | 93.2                          | 172.5       | 242.5             | 80.1        | 150.0       | 227.0             |
| 1966 | 93.8                          | 175.4       | 227.6             | 81.2        | 151.2       | 244.0             |
| 1967 | 94.0                          | 172.2       | 237.1             | 79.5        | 152.5       | 223.3             |
| 1968 | 95.2                          | 177.7       | 229.5             | 79.4        | 149.7       | 235.3             |
| 1969 | 95.6                          | 181.8       | 245.8             | 77.4        | 153.3       | 229.8             |
| 1970 | 95.7                          | 184.8       | 244.4             | 81.0        | 157.4       | 224.8             |
| 1971 | 96.9                          | 181.9       | 238.4             | 77.9        | 149.5       | 225.9             |
| 1972 | 95.8                          | 190.8       | 237.9             | 80.5        | 146.9       | 232.2             |
| 1973 | 96.0                          | 184.1       | 255.6             | 78.2        | 154.4       | 217.4             |
| 1974 | 100.7                         | 191.3       | 273.3             | 79.5        | 150.7       | 229.8             |
| 1975 | 99.0                          | 192.4       | 249.7             | 76.6        | 151.3       | 218.0             |
| 1976 | 102.5                         | 198.1       | 270.6             | 79.4        | 150.2       | 238.0             |
| 1977 | 104.3                         | 192.3       | 286.1             | 77.2        | 152.2       | 231.4             |
| 1978 | 104.8                         | 201.7       | 297.7             | 79.9        | 155.1       | 240.3             |
| 1979 | 103.4                         | 194.7       | 279.0             | 75.1        | 146.2       | 223.3             |
| 1980 | 104.6                         | 201.4       | 305.2             | 75.1        | 147.2       | 227.6             |

NOTE: ICD codes for 1950-57 are 152 and 153, and for 1958-67, 153. ICDA code for 1968-78 is 153, and ICD code for 1979-80 is 153.

Table 9. Death rates among persons 65 years of age and over for cancer of trachea, bronchus, and lung, by sex and age: United States, 1950-80

| Year | Male                          |             |                   | Female      |             |                   |
|------|-------------------------------|-------------|-------------------|-------------|-------------|-------------------|
|      | 65-74 years                   | 75-84 years | 85 years and over | 65-74 years | 75-84 years | 85 years and over |
|      | Deaths per 100,000 population |             |                   |             |             |                   |
| 1950 | 98.7                          | 82.6        | 62.4              | 23.3        | 32.9        | 28.2              |
| 1951 | 108.4                         | 85.3        | 60.5              | 22.1        | 33.6        | 30.6              |
| 1952 | 117.7                         | 95.6        | 71.1              | 24.5        | 33.8        | 28.9              |
| 1953 | 127.1                         | 106.2       | 69.2              | 23.4        | 32.8        | 29.4              |
| 1954 | 139.6                         | 110.5       | 75.0              | 22.9        | 34.5        | 31.8              |
| 1955 | 148.9                         | 126.9       | 73.9              | 23.9        | 34.1        | 30.3              |
| 1956 | 163.7                         | 133.3       | 85.0              | 24.1        | 33.9        | 31.1              |
| 1957 | 173.5                         | 138.8       | 89.6              | 24.2        | 34.3        | 34.6              |
| 1958 | 181.1                         | 143.2       | 91.5              | 24.6        | 36.0        | 36.4              |
| 1959 | 192.1                         | 152.2       | 111.5             | 24.2        | 34.4        | 30.9              |
| 1960 | 204.2                         | 167.1       | 107.7             | 24.4        | 32.8        | 38.8              |
| 1961 | 217.1                         | 176.2       | 128.7             | 25.6        | 35.8        | 39.4              |
| 1962 | 228.1                         | 191.4       | 126.2             | 25.6        | 35.6        | 40.1              |
| 1963 | 240.2                         | 205.9       | 142.7             | 27.3        | 35.0        | 43.2              |
| 1964 | 247.0                         | 218.6       | 135.6             | 27.7        | 38.2        | 38.7              |
| 1965 | 261.8                         | 231.7       | 155.0             | 30.4        | 36.6        | 43.7              |
| 1966 | 272.6                         | 254.2       | 156.0             | 31.7        | 40.9        | 50.7              |
| 1967 | 284.7                         | 278.1       | 173.7             | 34.2        | 41.9        | 43.8              |
| 1968 | 305.5                         | 292.9       | 193.6             | 39.1        | 49.7        | 55.3              |
| 1969 | 312.8                         | 303.3       | 205.2             | 42.1        | 47.5        | 51.3              |
| 1970 | 320.8                         | 330.8       | 215.1             | 43.1        | 52.4        | 52.7              |
| 1971 | 334.4                         | 353.6       | 238.4             | 48.6        | 54.3        | 59.2              |
| 1972 | 345.2                         | 366.9       | 231.0             | 52.9        | 55.1        | 58.0              |
| 1973 | 350.0                         | 372.4       | 255.8             | 54.8        | 58.6        | 59.3              |
| 1974 | 354.1                         | 394.6       | 267.6             | 59.9        | 61.7        | 64.6              |
| 1975 | 365.0                         | 401.9       | 275.9             | 64.2        | 63.6        | 67.7              |
| 1976 | 371.3                         | 423.0       | 300.7             | 71.4        | 70.7        | 71.9              |
| 1977 | 381.8                         | 443.5       | 319.0             | 76.3        | 73.6        | 73.1              |
| 1978 | 388.6                         | 450.5       | 335.0             | 84.5        | 80.9        | 73.6              |
| 1979 | 390.8                         | 465.7       | 350.3             | 90.9        | 86.3        | 75.4              |
| 1980 | 403.9                         | 488.8       | 368.1             | 102.7       | 94.1        | 91.9              |

NOTE: ICD codes for 1950-67 are 162 and 163, ICDA code for 1968-80 is 162, and ICD code for 1979-80 is 162.

Table 10. Death rates among persons 65 years of age and over for cancer of genital organs, by sex and age: United States, 1950-80

| Year | Male                          |             |                   | Female      |             |                   |
|------|-------------------------------|-------------|-------------------|-------------|-------------|-------------------|
|      | 65-74 years                   | 75-84 years | 85 years and over | 65-74 years | 75-84 years | 85 years and over |
|      | Deaths per 100,000 population |             |                   |             |             |                   |
| 1950 | 103.9                         | 291.4       | 436.2             | 110.1       | 136.9       | 141.4             |
| 1951 | 100.6                         | 286.5       | 421.9             | 105.7       | 132.3       | 132.8             |
| 1952 | 103.5                         | 290.2       | 464.5             | 106.0       | 132.6       | 138.3             |
| 1953 | 105.7                         | 296.9       | 451.9             | 105.8       | 131.0       | 134.8             |
| 1954 | 106.1                         | 305.5       | 464.1             | 102.5       | 132.0       | 128.9             |
| 1955 | 106.4                         | 296.2       | 465.7             | 103.0       | 126.5       | 136.3             |
| 1956 | 105.3                         | 309.1       | 488.4             | 99.3        | 124.1       | 137.4             |
| 1957 | 103.4                         | 299.8       | 479.2             | 99.8        | 118.9       | 135.2             |
| 1958 | 104.3                         | 286.9       | 470.1             | 100.3       | 123.0       | 138.6             |
| 1959 | 102.0                         | 278.5       | 467.9             | 98.4        | 119.2       | 133.7             |
| 1960 | 102.1                         | 285.9       | 468.2             | 97.9        | 119.1       | 131.4             |
| 1961 | 101.3                         | 286.1       | 508.4             | 98.4        | 112.9       | 123.0             |
| 1962 | 102.3                         | 284.8       | 505.6             | 95.0        | 114.1       | 129.1             |
| 1963 | 104.6                         | 282.4       | 514.9             | 93.4        | 115.0       | 128.4             |
| 1964 | 103.0                         | 282.4       | 497.4             | 91.6        | 112.9       | 123.3             |
| 1965 | 100.4                         | 286.6       | 513.3             | 92.7        | 108.9       | 124.3             |
| 1966 | 101.3                         | 283.6       | 507.1             | 91.7        | 110.4       | 128.1             |
| 1967 | 102.4                         | 286.4       | 513.6             | 90.2        | 104.5       | 118.6             |
| 1968 | 105.8                         | 285.1       | 512.3             | 86.0        | 107.7       | 120.4             |
| 1969 | 102.9                         | 288.5       | 493.2             | 84.5        | 105.7       | 121.1             |
| 1970 | 103.7                         | 299.4       | 481.6             | 85.6        | 104.9       | 113.1             |
| 1971 | 103.2                         | 294.9       | 497.6             | 83.2        | 103.7       | 117.7             |
| 1972 | 106.1                         | 295.8       | 494.6             | 83.3        | 102.6       | 115.5             |
| 1973 | 105.4                         | 301.9       | 521.0             | 79.1        | 100.1       | 110.0             |
| 1974 | 106.8                         | 300.9       | 504.4             | 77.4        | 98.2        | 112.9             |
| 1975 | 105.3                         | 300.5       | 510.8             | 77.1        | 97.7        | 112.0             |
| 1976 | 106.3                         | 306.8       | 534.2             | 77.2        | 102.6       | 110.3             |
| 1977 | 105.3                         | 305.4       | 550.6             | 74.9        | 96.2        | 108.9             |
| 1978 | 107.0                         | 312.2       | 579.0             | 74.2        | 93.6        | 109.0             |
| 1979 | 107.2                         | 313.8       | 583.3             | 73.8        | 94.4        | 104.8             |
| 1980 | 107.6                         | 315.4       | 612.3             | 73.6        | 95.7        | 115.9             |

NOTE: ICD codes for 1950-67 are 171-179; ICDA codes for 1968-78 are 180-187; and ICD codes for 1979-80 are 179-187.

Table 11. Death rates among females 65 years of age and over for cancer of breast, by age: United States, 1950-80

| <i>Year</i> | <i>65-74<br/>years</i>     | <i>75-84<br/>years</i> | <i>85 years<br/>and over</i> |
|-------------|----------------------------|------------------------|------------------------------|
|             | Deaths per 100,000 females |                        |                              |
| 1950        | 95.0                       | 139.8                  | 195.5                        |
| 1951        | 91.1                       | 143.6                  | 196.7                        |
| 1952        | 91.2                       | 133.9                  | 184.8                        |
| 1953        | 93.6                       | 140.5                  | 198.8                        |
| 1954        | 93.2                       | 136.4                  | 193.9                        |
| 1955        | 92.8                       | 141.3                  | 198.2                        |
| 1956        | 93.6                       | 136.3                  | 199.1                        |
| 1957        | 93.0                       | 136.0                  | 199.8                        |
| 1958        | 90.4                       | 129.5                  | 182.8                        |
| 1959        | 89.2                       | 125.9                  | 191.3                        |
| 1960        | 90.0                       | 129.9                  | 191.9                        |
| 1961        | 90.3                       | 130.6                  | 194.9                        |
| 1962        | 90.5                       | 125.5                  | 188.2                        |
| 1963        | 90.1                       | 119.2                  | 183.3                        |
| 1964        | 89.3                       | 120.3                  | 188.4                        |
| 1965        | 90.2                       | 126.8                  | 181.4                        |
| 1966        | 90.2                       | 122.7                  | 177.3                        |
| 1967        | 90.9                       | 122.6                  | 181.7                        |
| 1968        | 94.3                       | 124.1                  | 179.4                        |
| 1969        | 93.0                       | 120.1                  | 170.2                        |
| 1970        | 93.8                       | 127.4                  | 165.6                        |
| 1971        | 92.7                       | 123.6                  | 171.8                        |
| 1972        | 97.9                       | 122.6                  | 171.8                        |
| 1973        | 100.8                      | 124.1                  | 171.9                        |
| 1974        | 97.0                       | 125.2                  | 172.6                        |
| 1975        | 96.6                       | 124.5                  | 164.8                        |
| 1976        | 98.5                       | 123.2                  | 169.8                        |
| 1977        | 101.6                      | 126.7                  | 176.7                        |
| 1978        | 98.4                       | 123.6                  | 165.3                        |
| 1979        | 99.1                       | 122.0                  | 163.8                        |
| 1980        | 101.1                      | 126.4                  | 169.3                        |

NOTE: ICD code for 1950-67 is 170; ICDA code for 1968-78 is 174, and ICD codes for 1979-80 are 174-175.

Table 12. Mortality-sex ratios<sup>1</sup> among persons 65 years of age and over for Malignant neoplasms, by age: United States, 1950-80

| <i>Year</i> | <i>65-74<br/>years</i> | <i>75-84<br/>years</i> | <i>85 years<br/>and over</i> |
|-------------|------------------------|------------------------|------------------------------|
|             |                        | Ratio                  |                              |
| 1950        | 1.29                   | 1.33                   | 1.28                         |
| 1951        | 1.33                   | 1.32                   | 1.32                         |
| 1952        | 1.36                   | 1.36                   | 1.28                         |
| 1953        | 1.37                   | 1.38                   | 1.29                         |
| 1954        | 1.42                   | 1.41                   | 1.32                         |
| 1955        | 1.45                   | 1.43                   | 1.30                         |
| 1956        | 1.47                   | 1.48                   | 1.37                         |
| 1957        | 1.53                   | 1.46                   | 1.34                         |
| 1958        | 1.51                   | 1.48                   | 1.34                         |
| 1959        | 1.56                   | 1.50                   | 1.42                         |
| 1960        | 1.59                   | 1.50                   | 1.38                         |
| 1961        | 1.62                   | 1.56                   | 1.45                         |
| 1962        | 1.64                   | 1.57                   | 1.49                         |
| 1963        | 1.69                   | 1.59                   | 1.50                         |
| 1964        | 1.71                   | 1.63                   | 1.49                         |
| 1965        | 1.72                   | 1.66                   | 1.55                         |
| 1966        | 1.73                   | 1.69                   | 1.52                         |
| 1967        | 1.75                   | 1.74                   | 1.58                         |
| 1968        | 1.80                   | 1.75                   | 1.58                         |
| 1969        | 1.80                   | 1.77                   | 1.62                         |
| 1970        | 1.80                   | 1.78                   | 1.65                         |
| 1971        | 1.83                   | 1.85                   | 1.66                         |
| 1972        | 1.82                   | 1.89                   | 1.63                         |
| 1973        | 1.84                   | 1.89                   | 1.76                         |
| 1974        | 1.85                   | 1.92                   | 1.75                         |
| 1975        | 1.87                   | 1.92                   | 1.76                         |
| 1976        | 1.85                   | 1.95                   | 1.76                         |
| 1977        | 1.84                   | 1.95                   | 1.84                         |
| 1978        | 1.84                   | 1.96                   | 1.88                         |
| 1979        | 1.84                   | 1.98                   | 1.90                         |
| 1980        | 1.80                   | 1.98                   | 1.89                         |

<sup>1</sup> Ratio of male death rate to female death rate.

SOURCE: Data derived from table 7.



Table 13. Death rates among persons 65 years of age and over for Cerebrovascular diseases, by sex and age: United States, 1950-80

| Year | Male                          |             |                   | Female      |             |                   |
|------|-------------------------------|-------------|-------------------|-------------|-------------|-------------------|
|      | 65-74 years                   | 75-84 years | 85 years and over | 65-74 years | 75-84 years | 85 years and over |
|      | Deaths per 100,000 population |             |                   |             |             |                   |
| 1950 | 589.6                         | 1,543.6     | 3,048.6           | 522.1       | 1,462.2     | 2,949.4           |
| 1951 | 593.7                         | 1,546.0     | 2,925.8           | 511.1       | 1,490.8     | 3,047.8           |
| 1952 | 572.8                         | 1,559.1     | 2,965.9           | 499.9       | 1,451.7     | 3,127.6           |
| 1953 | 573.2                         | 1,552.7     | 2,918.3           | 493.1       | 1,461.6     | 3,147.3           |
| 1954 | 550.9                         | 1,514.9     | 2,887.2           | 461.2       | 1,414.6     | 3,179.1           |
| 1955 | 554.7                         | 1,553.1     | 3,185.5           | 462.1       | 1,452.8     | 3,365.0           |
| 1956 | 548.1                         | 1,547.5     | 3,257.8           | 452.4       | 1,443.6     | 3,480.9           |
| 1957 | 561.8                         | 1,594.1     | 3,474.5           | 460.5       | 1,470.9     | 3,655.3           |
| 1958 | 552.4                         | 1,601.0     | 3,529.1           | 444.4       | 1,490.7     | 3,775.4           |
| 1959 | 534.1                         | 1,566.7     | 3,558.0           | 429.7       | 1,462.9     | 3,695.0           |
| 1960 | 530.7                         | 1,555.9     | 3,643.1           | 415.7       | 1,441.1     | 3,704.4           |
| 1961 | 503.6                         | 1,495.9     | 3,659.2           | 400.0       | 1,375.9     | 3,746.8           |
| 1962 | 502.4                         | 1,493.2     | 3,771.4           | 393.3       | 1,359.6     | 3,844.2           |
| 1963 | 500.4                         | 1,497.1     | 3,803.2           | 389.3       | 1,365.2     | 3,824.4           |
| 1964 | 481.4                         | 1,448.8     | 3,638.5           | 372.5       | 1,295.5     | 3,673.8           |
| 1965 | 480.9                         | 1,439.0     | 3,693.7           | 362.6       | 1,284.3     | 3,731.4           |
| 1966 | 482.2                         | 1,445.1     | 3,663.8           | 364.3       | 1,281.7     | 3,740.4           |
| 1967 | 468.1                         | 1,398.4     | 3,548.6           | 343.7       | 1,219.0     | 3,560.4           |
| 1968 | 483.1                         | 1,418.2     | 3,591.6           | 351.6       | 1,248.8     | 3,618.3           |
| 1969 | 465.7                         | 1,373.9     | 3,396.1           | 339.8       | 1,190.1     | 3,450.0           |
| 1970 | 449.5                         | 1,361.6     | 3,211.2           | 333.3       | 1,183.1     | 3,247.0           |
| 1971 | 438.8                         | 1,345.4     | 3,192.4           | 313.1       | 1,136.3     | 3,230.2           |
| 1972 | 439.0                         | 1,332.8     | 3,225.3           | 311.3       | 1,136.4     | 3,247.1           |
| 1973 | 424.7                         | 1,306.7     | 3,174.5           | 300.3       | 1,131.5     | 3,278.5           |
| 1974 | 400.0                         | 1,237.7     | 3,032.6           | 282.5       | 1,069.9     | 3,079.0           |
| 1975 | 362.7                         | 1,131.5     | 2,735.7           | 255.8       | 966.2       | 2,736.8           |
| 1976 | 334.2                         | 1,049.1     | 2,672.1           | 237.1       | 908.6       | 2,687.1           |
| 1977 | 309.9                         | 1,005.1     | 2,509.7           | 219.8       | 858.0       | 2,540.9           |
| 1978 | 289.8                         | 926.8       | 2,368.1           | 206.7       | 803.7       | 2,417.9           |
| 1979 | 267.6                         | 873.0       | 2,188.3           | 195.8       | 747.0       | 2,298.9           |
| 1980 | 259.2                         | 868.3       | 2,199.2           | 189.0       | 741.6       | 2,328.2           |

NOTE: ICD codes for 1950-67 are 330-334, ICDA codes for 1968-78 are 430-438, and ICD codes for 1979-80 are 430-438.

Table 14. Mortality-sex ratios<sup>1</sup> among persons 65 years of age and over for Cerebrovascular diseases, by age: United States, 1950-80

| Year | 65-74<br>years | 75-84<br>years | 85 years<br>and over |
|------|----------------|----------------|----------------------|
|      |                | Ratio          |                      |
| 1950 | 1.13           | 1.06           | 1.03                 |
| 1951 | 1.16           | 1.04           | 0.96                 |
| 1952 | 1.15           | 1.07           | 0.95                 |
| 1953 | 1.16           | 1.06           | 0.93                 |
| 1954 | 1.19           | 1.07           | 0.91                 |
| 1955 | 1.20           | 1.07           | 0.95                 |
| 1956 | 1.21           | 1.07           | 0.94                 |
| 1957 | 1.22           | 1.08           | 0.95                 |
| 1958 | 1.24           | 1.07           | 0.93                 |
| 1959 | 1.24           | 1.07           | 0.96                 |
| 1960 | 1.28           | 1.08           | 0.98                 |
| 1961 | 1.26           | 1.09           | 0.98                 |
| 1962 | 1.28           | 1.10           | 0.98                 |
| 1963 | 1.29           | 1.10           | 0.99                 |
| 1964 | 1.29           | 1.12           | 0.99                 |
| 1965 | 1.33           | 1.12           | 0.99                 |
| 1966 | 1.32           | 1.13           | 0.98                 |
| 1967 | 1.36           | 1.15           | 1.00                 |
| 1968 | 1.37           | 1.14           | 0.99                 |
| 1969 | 1.37           | 1.15           | 0.98                 |
| 1970 | 1.35           | 1.15           | 0.99                 |
| 1971 | 1.40           | 1.18           | 0.99                 |
| 1972 | 1.41           | 1.17           | 0.99                 |
| 1973 | 1.41           | 1.15           | 0.97                 |
| 1974 | 1.42           | 1.16           | 0.98                 |
| 1975 | 1.42           | 1.17           | 1.00                 |
| 1976 | 1.41           | 1.15           | 0.99                 |
| 1977 | 1.41           | 1.17           | 0.99                 |
| 1978 | 1.40           | 1.15           | 0.98                 |
| 1979 | 1.37           | 1.17           | 0.95                 |
| 1980 | 1.37           | 1.17           | 0.94                 |

<sup>1</sup> Ratio of male death rate to female death rate.

SOURCE: Data derived from table 13.

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