

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
Epidemiological Studies
Series 3, No. 22a**

DHHS Publication No. (PHS) 84-1406a

U.S. Department of Health and Human
Services
Public Health Service
National Center for Health Statistics,
Hyattsville, Md.
April 1984

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Suggested Citation

National Center for Health Statistics, L. Fingerhut: Changes in mortality among the elderly, United States, 1940-78, Supplement to 1980. *Vital and Health Statistics*. Series 3, No. 22a. DHHS Pub. No. (PHS) 84-1406a. Public Health Service. Washington. U.S. Government Printing Office, April 1984.

Library of Congress Catalog Card Number 82-600001

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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
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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.¹ 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 4,274,000.² 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.³ 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)⁴ and by the Social Security Administration (1983),⁵ 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.⁶

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

¹U.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.

²U.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.

³National Center for Health Statistics (unpublished data).

⁴U.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

⁵Social 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.

⁶National 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 ¹	-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 ¹	-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 ¹	-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

¹Age 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 ratios¹ among persons 65 years of age and over for selected years, by age: United States, 1940-80

Year	65 years and over ²	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

¹Ratio of male death rate to female death rate.

²Age 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>
CANCER OF BREAST			
	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
CANCER OF LUNG			
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
CANCER OF COLON			
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
CANCER OF GENITAL ORGANS			
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 years	70-74 years	75-79 years	80-84 years	85 years and over
Average annual percent change					
Male					
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 in thousands	Percent distri- bution	Number in thousands	Percent distri- bution	Number in thousands	Percent distri- bution	Number in thousands	Percent distri- 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 years	70-74 years	75-79 years	80-84 years	85 years 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 years	70-74 years	75-79 years	80-84 years	85 years 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

<i>Year</i>	<i>65-69 years</i>	<i>70-74 years</i>	<i>75-79 years</i>	<i>80-84 years</i>	<i>85 years 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 ratios¹ among persons 65 years of age and over, by age: United States, 1940-80

Year	65 years and over ²	65-69 years	70-74 years	75-79 years	80-84 years	85 years 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

¹Ratio of male death rate to female death rate.

²Age 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 ratios¹ among persons 65 years of age and over for Diseases of heart, by age: United States, 1950-80

<i>Year</i>	<i>65-74 years</i>	<i>75-84 years</i>	<i>85 years 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

¹Ratio 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 years</i>	<i>75-84 years</i>	<i>85 years 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 ratios¹ among persons 65 years of age and over for Malignant neoplasms, by age: United States, 1950-80

Year	65-74	75-84	85 years
	years	years	and over
	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

¹ 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 ratios¹ among persons 65 years of age and over for Cerebrovascular diseases, by age: United States, 1950-80

Year	65-74 years	75-84 years	85 years 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

¹ Ratio of male death rate to female death rate.

SOURCE: Data derived from table 13.

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