

Diabetes Mellitus Mortality in the United States - 1950 - 67

Trends for 1950-67 and differences for selected periods by age, sex, color, marital status, and geographic area. Also, diabetes mellitus associated with other causes of death.

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DIABETES MELLITUS MORTALITY IN THE UNITED STATES 1950-67

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INTRODUCTION

Diabetes mellitus affects an estimated 4.4 million persons in the United States; of these, more than 1.6 million are not aware that they have the disease.¹ Furthermore, mortality and morbidity from diabetes mellitus are often associated with other chronic conditions in a causal or contributory manner.

In 1967, there were 35,049 deaths attributed to diabetes as the underlying cause; this was 7,869 more deaths than 10 years earlier and about 11,000 more than in 1950. The number of persons dying with diabetes mellitus as a contributory condition is not routinely available, but an estimated 51,000 additional deaths may be involved (see table 3 in reference 2).

This report presents mortality trends for diabetes mellitus for the years 1950-67 by age, color, and sex. It also presents death rates for diabetes around census years by marital status and residence. Finally, the relationship of diabetes as the underlying cause of death in 1955 and as a contributory condition to other causes is examined; this analysis is based on a study of a sample of deaths for that year.²

TRENDS, 1950-67

Color and Sex

The death rate for diabetes mellitus fluctuated around 16 deaths per 100,000 population during the

1950's (fig. 1 and table 2). Beginning in 1960, the rate gradually increased, reaching 17.7 in 1966 and 1967.

The rate for the white population^a increased from 16.4 in 1950 to 17.3 in 1967. At the same time, the rate for the remainder of the population increased rapidly, from 14.4 in 1950 to 21.1 in 1966 and to 20.8 in 1967 (fig. 1). This was an increase of 5 percent in the death rate for the white population and 44 percent for all others during the 18-year interval.

The divergence in mortality between the color groups cannot be explained by differences in other demographic characteristics such as the age or sex composition of the population. The trends for males are similar to those for females within each color group (figs. 1 and 3), but the rates for females are consistently higher. Therefore, the overall trend is about equally influenced by the rates for each sex.

The effect of age composition can be evaluated by adjusting the rates to compensate for differences in the age distributions of each of the color and sex groups. The direct method of age adjustment is used in this report with the 1940 United States population as the standard. The age-adjusted death rate for the all-other group is appreciably higher than that for the white group, and it is also higher than its own unadjusted rate (fig. 2 and tables 1 and 2). The age-adjusted rates for

^a See appendix for discussion of color.

white persons remained around 12 to 14 per 100,000 population over the entire period of 1950-67, whereas that for all others increased from 17 to 25 (fig. 4).

The age-adjusted trends by sex among white persons have converged to about 12 or 13 deaths per 100,000 population (fig. 4). No such narrowing of the differences between the sexes is noted for persons other than white. There has been an increase in age-adjusted death rates of 5 percent

during the period 1956-67, but this is slight compared to an actual rise of 13 percent. The difference between the age-adjusted and the unadjusted rate reflects the combined effect of (1) an increasing proportion of aged persons in the United States population—6.8 percent who were 65 years or older in 1940 as compared with 9.5 percent in 1967—and (2) a high level of mortality from diabetes in this older group. Thus the total impact of diabetes mortality has been magnified by the

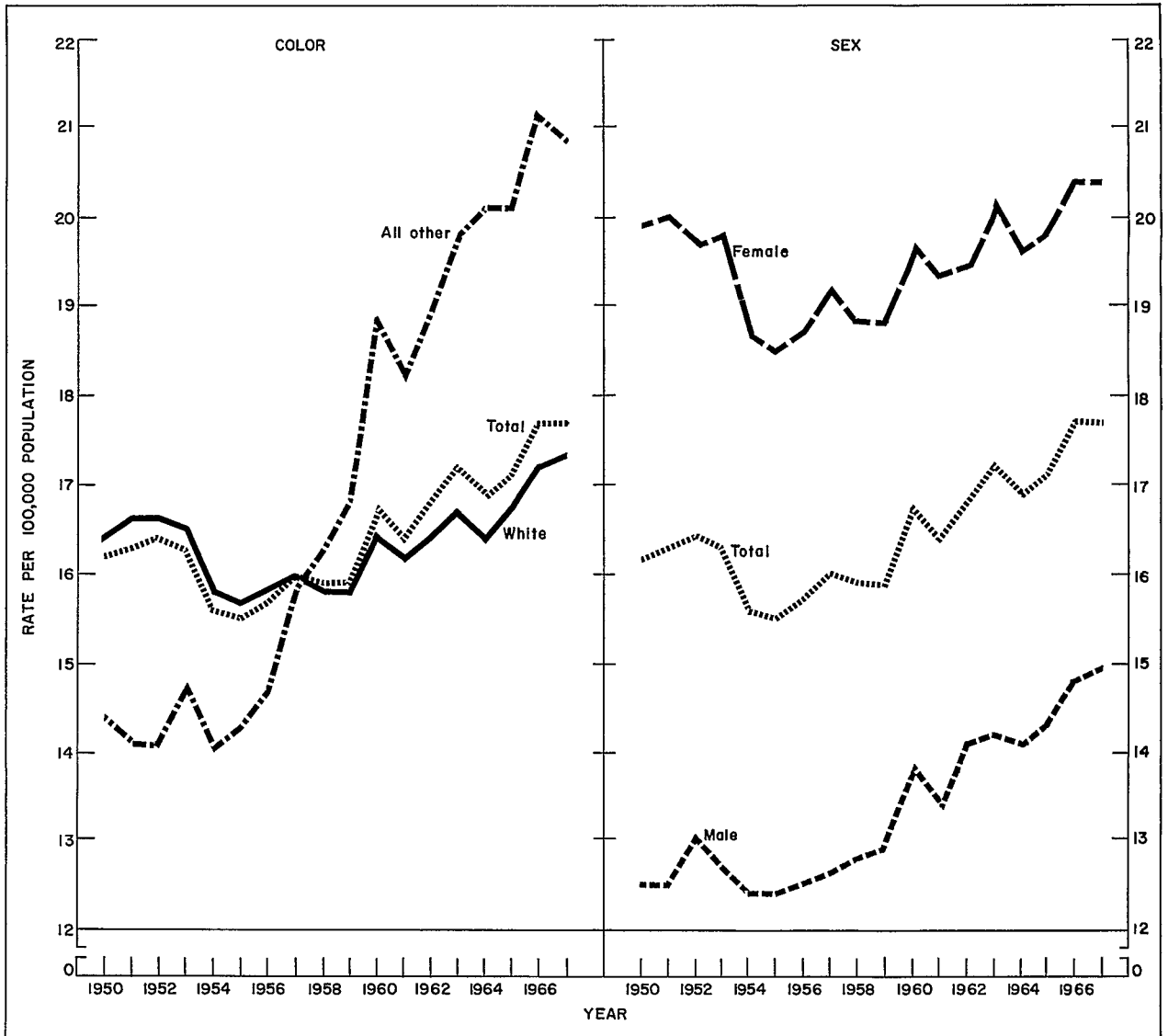


Figure 1. Death rates for diabetes mellitus, by color and by sex for 1950-67.

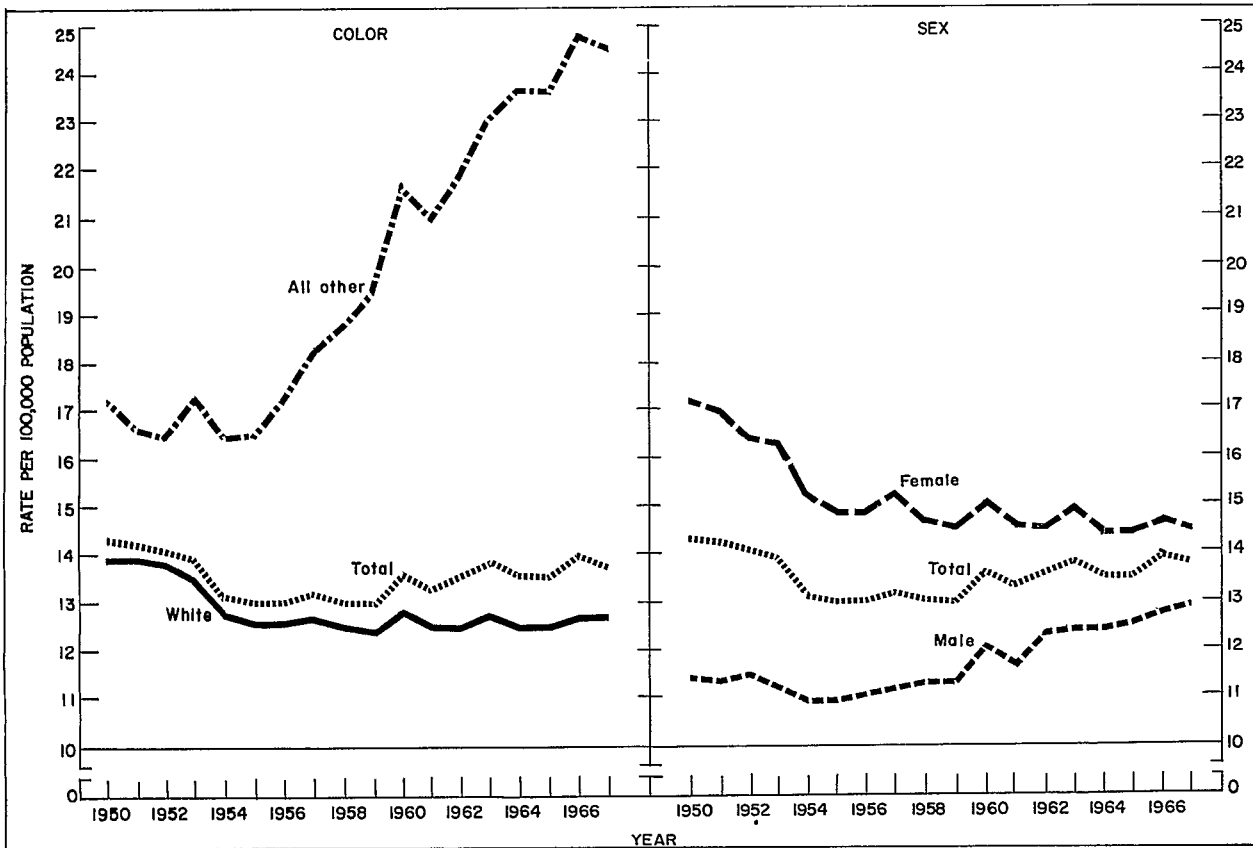


Figure 2. Age-adjusted death rates for diabetes mellitus, by color and by sex for 1950-67.

increasing proportion of aged persons who have comparatively high mortality rates.

Age-Specific Death Rates

Diabetes mortality, like that of most chronic diseases, increases with age. In 1967 the death rate for diabetes mellitus among children 1-4 years old was 0.1 per 100,000. At ages 85 and over, the rate was 234.8. Since the rates for ages under 35 are less than 3 per 100,000 persons, the discussion in this section is confined to the population aged 35 or older.

The age-specific mortality of the white group differs markedly from that of the all-other group in both the magnitude and direction of trends (fig. 5 and table 2). The rates for the all-other category are higher at all ages up to 75 years and have been increasing. Among white persons the mortality trend at nearly all ages has been downward or

stationary. Only for white persons 85 years or older has the rate increased over the entire period.

The death rates for males and females have converged since 1950 for most age groups (fig. 6). At ages under 55, the rates have been nearly identical for both sexes. At ages 55-64 and 65-74, the rates for females are higher than those for males but with a decrease in the rate for females and an increase in rate for males. At ages 75 and above, the rate for both sexes has increased during the last 10 years.

SELECTED DATA, 1949-51 AND 1959-61

In this section, diabetes mortality is presented on the basis of detailed population data available from the censuses of 1950 and 1960. The death rates are classified by geographic area of residence for the 3-year averages 1949-51

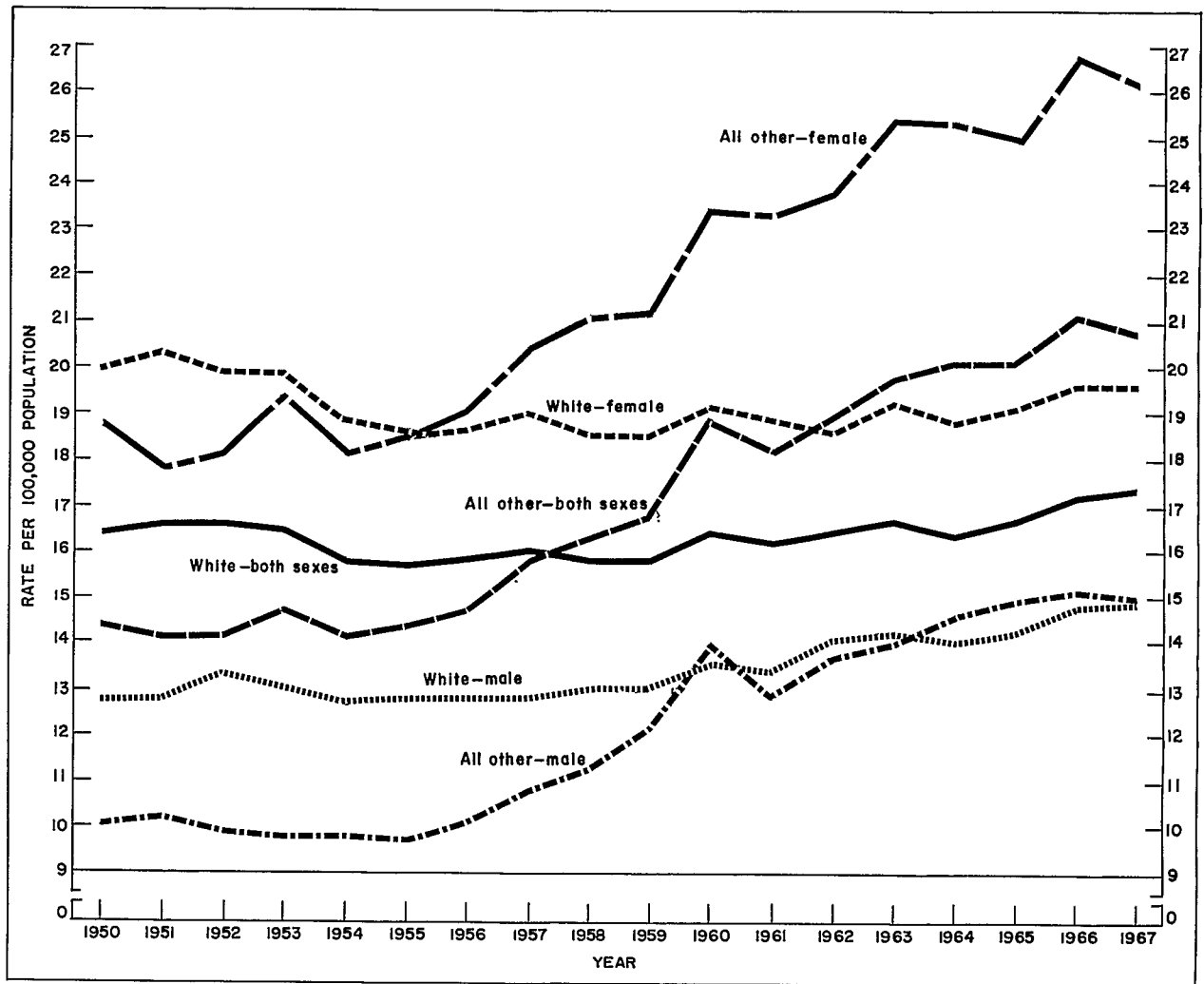


Figure 3. Death rates for diabetes mellitus, by color and sex for 1950-67.

and 1959-61 and by metropolitan and nonmetropolitan residence and marital status for 1959-61.

Mortality from diabetes mellitus in 1959-61 was highest in the New England, Middle Atlantic, and East North Central Divisions of the United States, with about 20 deaths per 100,000 population (table 4). The rates were lowest in the Mountain and Pacific Divisions, with 10 deaths per 100,000. Intermediately, the Southern Division had rates of 13 or 14 per 100,000 and West North Central Division about 17 per 100,000.

Age adjustment reduced but did not eliminate the interregional differences in the rates (table 3). After adjusting for differences in age, the highest rates in 1959-61 were still in the New

England Division (14 per 100,000) and in the Middle Atlantic and the East North Central Divisions (16 per 100,000) and the lowest in the Mountain and the Pacific Divisions, (nine or 10 per 100,000).

Although trend data are not available for geographic divisions during intercensal years, age-adjusted rates for 1959-61 can be compared to those for 1949-51 as an indication of change over the decade (fig. 7). All the divisions, with the exception of the South Central, had lower age-adjusted death rates in 1959-61 than in 1949-51; however, the rank of each division by the level of diabetes mortality remained substantially the same for the two periods.

In all the geographic divisions, the decrease in the death rates for diabetes mellitus was confined to the white group; for the remainder of the population, the age-adjusted death rates in the geographic divisions were an average of 21 percent higher in 1959-61 than they had been in 1949-51. Also, in both periods the rates for the all-other group were higher than for the white group in all areas.

The age-adjusted rate for females was higher than for males in both census years; however, the difference between the sexes was diminished mainly through a decrease in the rate for females in all divisions except the South Central. The rate for males was slightly higher in 1959-61 than in 1949-51 in all but the New England and Pacific Divisions.

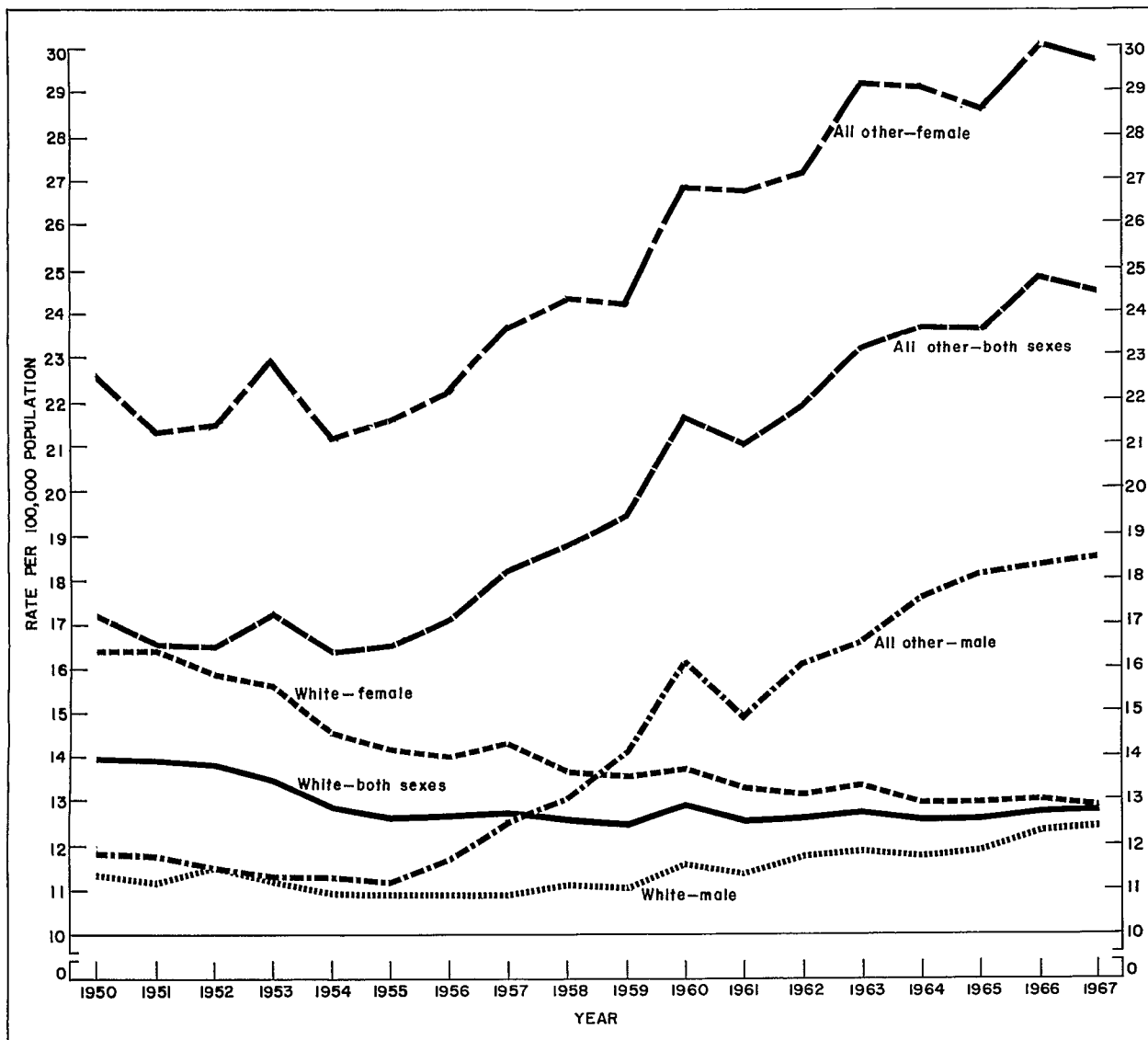


Figure 4. Age-adjusted death rates for diabetes mellitus, by color and sex for 1950-67.

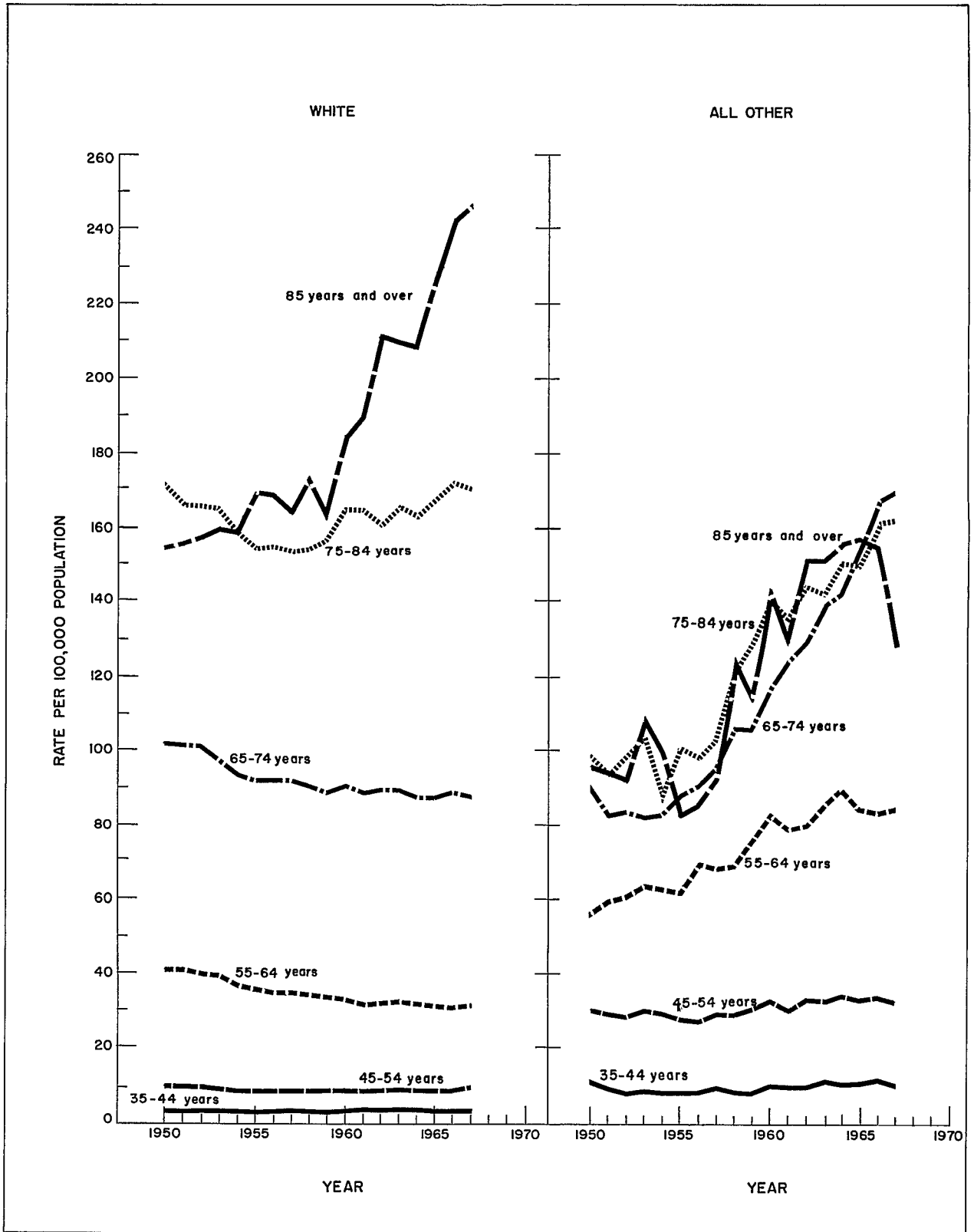


Figure 5. Death rates of persons aged 35 or older for diabetes mellitus, by color and age for 1950-67.

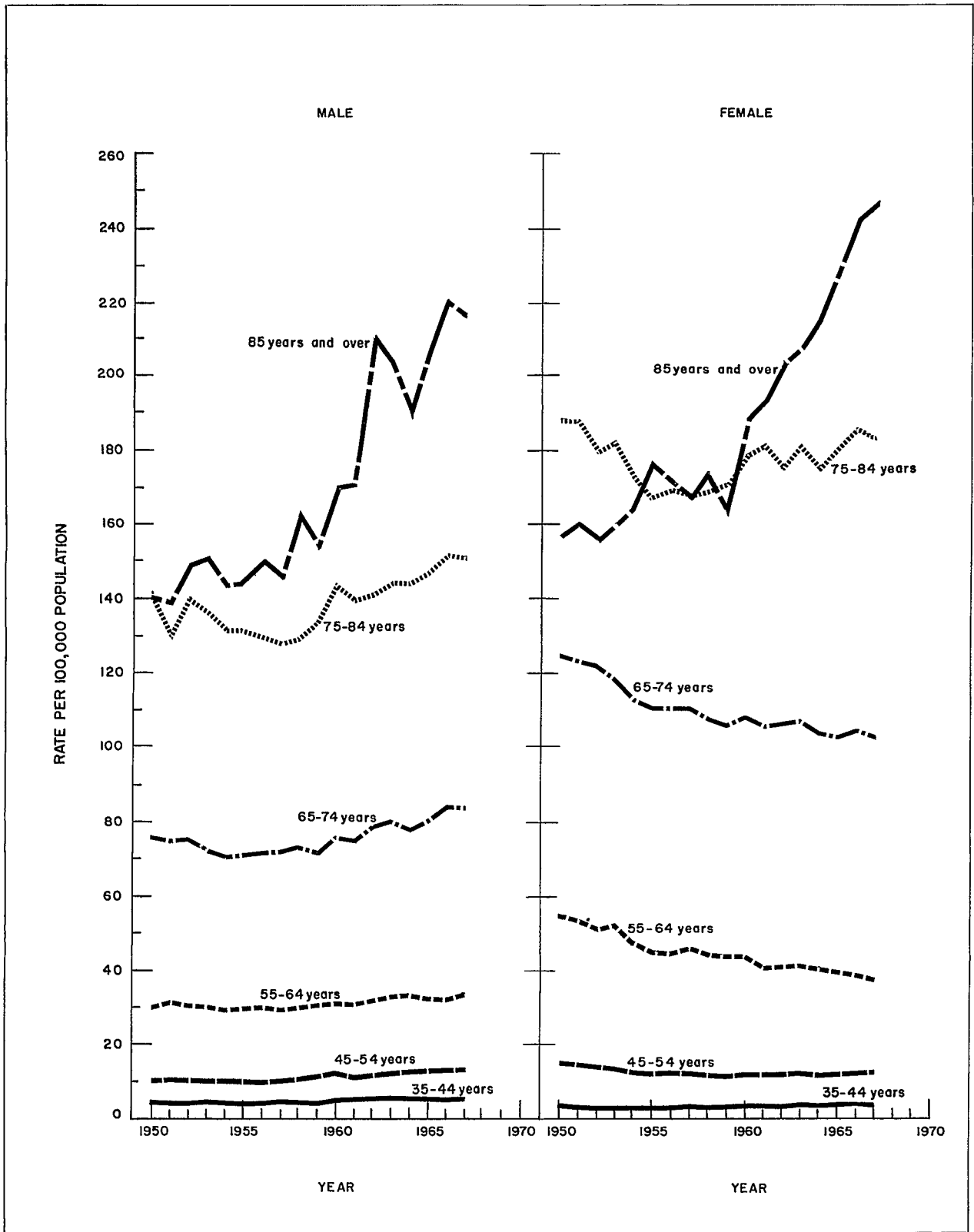


Figure 6. Death rates of persons aged 35 or older for diabetes mellitus, by sex and age for 1950-67.

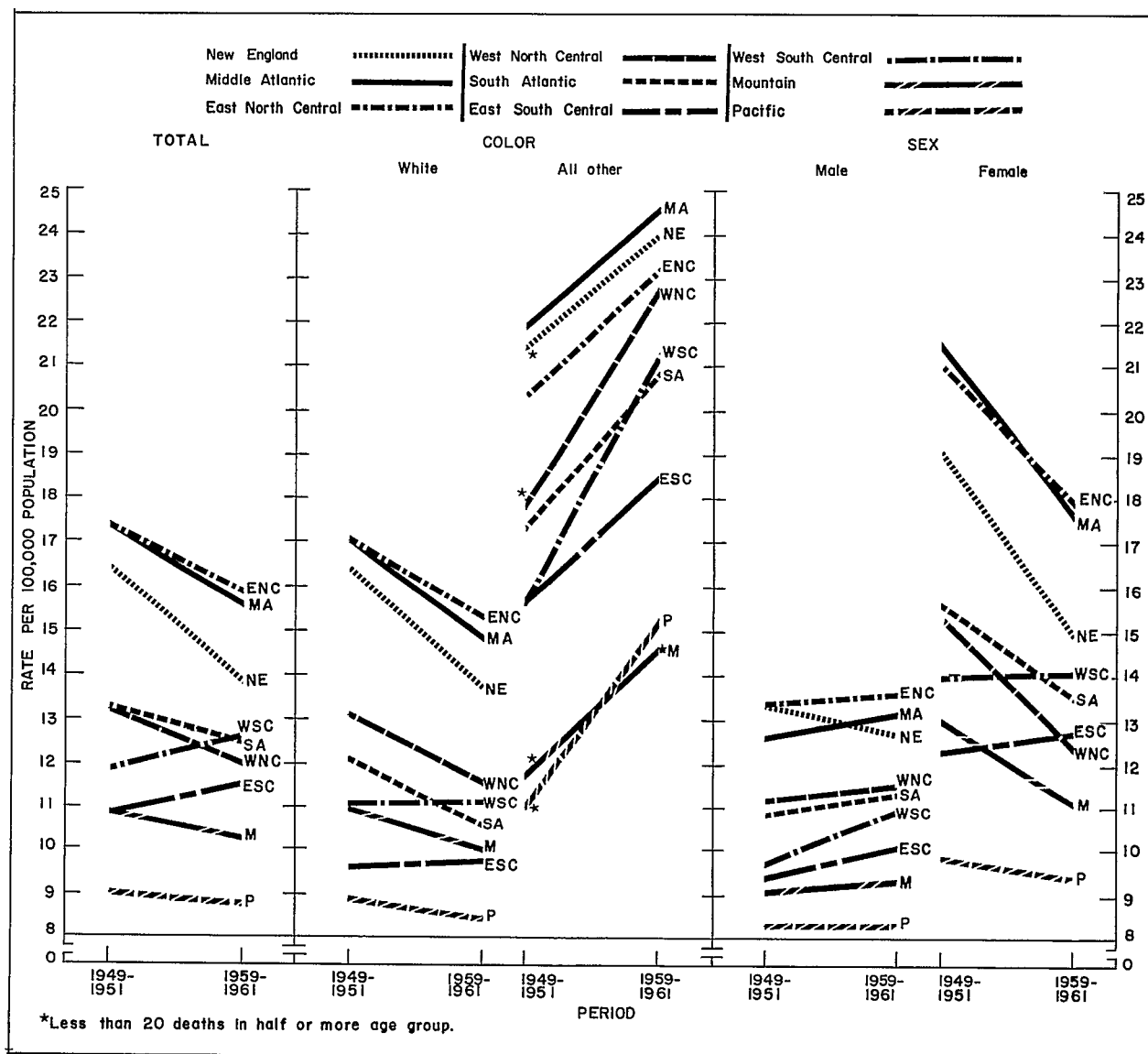


Figure 7. Age-adjusted death rates for diabetes mellitus, by color, sex, and geographic division for 1949-51 and 1959-61.

The death rate for diabetes mellitus in 1959-61 was about the same for metropolitan counties as for nonmetropolitan counties of the United States, 16.2 and 16.7 respectively (table 6). Comparisons between the two types of areas are difficult because the nonmetropolitan counties are heterogeneous, with about one-third of the counties classified as urban and two-thirds as rural. The urban proportion varies by division, from less

than 40 percent in parts of the South to more than 50 percent in the Middle Atlantic.

The white population residing in metropolitan counties had slightly lower death rates than did white persons in nonmetropolitan counties for most of the divisions of the United States. All other persons in the population had higher rates in the metropolitan areas than did those in the

nonmetropolitan areas with the exception of those in the North Central and Pacific Divisions.

The death rates for diabetes mellitus by marital status for the population aged 15 years or older, unadjusted and adjusted for age, are shown in tables A and 5. As stated earlier, the death rate for diabetes mellitus is higher for females than for males. However, within each marital group except that of single persons, the crude rate for females is seen to be lower than for males. This is partly due to the difference in the proportion of males and females who are single, married, widowed, and divorced. Widows comprised 12.4 percent of all females aged 15 or older in 1960, while widowers comprised only 3.5 percent of the men. When adjusted for differences in age distribution, widowed and married females have higher age-adjusted rates than do males in the corresponding groups, whereas single and divorced females have lower rates.

Differences in the crude death rate by marital status are quite marked, ranging from 9.2 for single persons to 109.2 for the widowed. Age-adjusted rates are more similar by marital status, ranging from 15.8 for the married to 25.8 for the widowed. Among persons other than white, it should be noted, females in all marital groups have higher age-adjusted death rates than males. For females in this color group, the level of mortality is approximately the same for each marital group except for the widowed, whose death rate is about 50 percent above that of the others.

MULTIPLE CONDITIONS, 1955

In this section, diabetes mellitus data are presented both as the underlying cause of death with other conditions mentioned on the death certificate and as a contributory condition with

Table A. Unadjusted and age-adjusted death rates for diabetes, by marital status, color, and sex: United States, 1959-61

Marital status	Total			White			All other		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Unadjusted rate per 100,000 population									
All statuses---	23.7	19.6	27.4	23.1	19.5	26.5	28.6	21.0	35.5
Single-----	9.2	9.1	9.3	9.1	9.1	9.0	10.0	9.1	11.1
Married-----	17.6	17.8	17.3	17.1	17.6	16.5	22.3	19.9	24.6
Widowed-----	109.2	111.3	108.6	109.2	114.9	107.7	109.4	89.0	115.6
Divorced-----	27.8	38.0	20.6	26.7	37.7	18.9	35.3	40.8	32.0
Age-adjusted rate per 100,000 population									
All statuses---	17.8	15.8	19.5	16.8	15.3	18.0	27.6	20.3	34.4
Single-----	17.4	20.6	14.4	16.3	20.0	12.9	28.6	24.9	33.8
Married-----	15.8	13.8	18.7	15.1	13.6	17.7	22.4	17.1	30.0
Widowed-----	25.8	23.8	26.5	22.0	21.9	22.2	42.8	30.2	46.7
Divorced-----	21.7	27.1	17.6	20.5	26.6	15.8	32.4	31.2	34.1

Sources: Detailed table 5.

1960 Census of Population, Vol. 1, Part 1, Table 177.

Table B. Percent distribution of deaths by number of additional conditions, according to whether diabetes was underlying cause or an additional condition: United States, 1955

Diabetes mellitus as:	Number of additional conditions per certificate					
	Total	0	1	2	3	4 or more
Underlying cause-----	100.0	5.1	35.2	40.1	14.7	4.9
Contributory condition-----	100.0	...	28.2	44.9	20.4	6.5

other causes of death. The data are taken from a study of multiple causes of death for 1955.²

The multiple cause data are of two kinds: the number of deaths occurring, which is the same as the number of death certificates filed, and the number of conditions listed on each death certificate. Thus, of all the certificates mentioning diabetes, 41 percent mentioned it as the underlying cause and 59 percent as a contributory condition (Ref. 2, tables 3 and 5). Certificates with diabetes mellitus entered as the underlying cause of death had an average of 2.8 conditions (including diabetes) per certificate. If these percentages were applied to 1967 mortality, 85,000 deaths would involve diabetes—35,000 as underlying cause and 50,000 with diabetes as a contributory condition.

Only 5 percent of the deaths due to diabetes had no other condition listed on the death certificate. Thirty-five percent of the certificates had one other condition listed and 40 percent had two conditions listed (table B). Conversely, for the certificates with diabetes as a contributory condition, 28 percent had diabetes listed as the only contributory condition, and 45 percent listed one other condition. Thus diabetes is associated with one or two other conditions on three-fourths of the certificates that mention diabetes.

Diabetes Mellitus as Underlying Cause

As indicated earlier, an average of 1.8 additional conditions were mentioned on certificates where diabetes is the underlying cause of

death. Seventy percent of these conditions were diseases of the cardiovascular system (table C). A third of all conditions were diseases of the heart, 21 percent being arteriosclerotic heart disease. Other than the cardiovascular-renal diseases, influenza or pneumonia were mentioned on 3.3 percent of the certificates and violence (suicide, homicide, or accidental death) on 1.1 percent. Symptoms, senility, or ill-defined conditions were reported on 8.4 percent of the certificates.

What contributory conditions are significantly associated with diabetes as a cause of death? A chi-square technique has been used to determine the contributory conditions (or underlying causes) that occur with diabetes more often than expected by chance, assuming that the underlying causes and the contributory causes are independent.² Table D shows the ratio of the actual to expected number of deaths for conditions that are significantly associated with diabetes.

Certain cardiovascular conditions are significantly associated with diabetes. Among white persons, arteriosclerotic heart disease so described occurs nearly 8 times more often than expected by chance and coronary heart disease 4.5 times more often. Gangrene is associated with diabetes 20.0 times more often than would be expected by chance, while hypertension (without mention of heart disease) and general arteriosclerosis occur about twice as often. The ratio is lower for contributory conditions other than cardiovascular-renal diseases; malignant

Table C. Percent of contributory conditions with diabetes as underlying cause of death: United States, 1955

Contributory condition to cause of death (Sixth Revision of International Lists, 1948)	Percent
All contributory conditions-----	100.0
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues-----140-148,150-165,170-181,190-205	0.9
Mental, psychoneurotic and personality disorders-----300-329	0.9
Major cardiovascular-renal diseases-----330-334,400-468,592-594	72.4
Diseases of cardiovascular system-----330-334,400-468	70.1
Vascular lesions affecting central nervous system-----330-334	11.9
Diseases of heart-----400-402,410-443	33.2
Rheumatic fever and chronic rheumatic heart disease----400-402,410-416	0.2
Arteriosclerotic heart disease, including coronary disease-----420	21.0
Nonrheumatic chronic endocarditis and other myocardial degeneration-----421,422	3.6
Other diseases of heart-----430-434	3.3
Hypertensive heart disease-----440-443	5.1
Other hypertensive disease-----444-447	5.4
General arteriosclerosis-----450	13.8
Other diseases of circulatory system-----451-468	5.8
Chronic and unspecified nephritis and other renal sclerosis-----592-594	2.3
Influenza and pneumonia-----480-493	3.3
Symptoms, senility, and ill-defined conditions-----780-795	8.4
Accidents, suicide, and homicide-----E800-E964,E970-E985	1.1
All other diseases-----Residual	13.1

neoplasms are mentioned only 1.3 times more often and pneumonia 1.1 times more often.

The excess tends to diminish with age. For instance, among white persons, deaths due to diabetes with heart disease involving coronary arteries occurred 4.5 times as often as expected. At ages 15-44, the ratio was 6.5, and it decreased for each consecutive age group until at ages 85 and over the ratio was 3.1.

Diabetes Mellitus as a Contributory Condition

Diabetes mellitus was mentioned 1.5 times more often as a contributory condition of death than as an underlying cause. The causes of death with which diabetes mellitus were most commonly associated are shown in table E. Significant associations, as previously defined, were again most

frequent with cardiovascular-renal diseases. Among the white population about 40 percent of the diabetes was associated with arteriosclerotic heart disease and about 16 percent with cerebrovascular conditions. Among the all-other group, when diabetes was a contributory condition, 19 percent of the deaths had cardiovascular conditions as the underlying cause and 16.7 percent had hypertension involving the heart as the underlying cause.

Diabetes mellitus comprised only 2 to 4 percent of the contributory conditions for each of the above mentioned causes of death (table E). Most of the conditions contributing to cardiovascular-renal disease as a cause of death are other cardiovascular-renal diseases. For many such causes, however, diabetes is the next largest contributory condition.

Table D. Ratio of actual to expected deaths for combinations of selected causes reported with diabetes mellitus, by age and color: United States, 1955

[Ratio shown only when 50 or more deaths were reported in the combination of cause and this figure exceeded the expected number significantly]

Color and cause of death (Sixth Revision of International Lists, 1948)	Diabetes mellitus as underlying cause					Diabetes mellitus as contributory condition				
	Total	15-44 years	45-64 years	65-84 years	85+ years	Total	15-44 years	45-64 years	65-84 years	85+ years
<u>White</u>										
Cause of death reported with diabetes mellitus:										
Tuberculosis of respiratory system---001-008	1.3	...	...	...	0	...	...	...	...	...
All other infective and parasitic diseases-----030-138	2.1	...	3.3	2.0	...	...	...	...	...	...
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues-140-205	1.3	...	1.6	1.1	...	...	...	...	...	...
Vascular lesions affecting central nervous system-----330-334	2.5	...	2.6	2.3	2.5	1.4	...	1.5	1.2	1.4
Arteriosclerotic heart disease so described-----420.0	7.8	...	12.4	6.1	5.8	1.8	...	2.2	1.4	1.1
Heart disease specified as involving coronary arteries-----420.1	4.5	6.5	4.9	3.6	3.1	1.4	2.1	1.3	1.1	...
Nonrheumatic chronic endocarditis and other myocardial degeneration-----421,422	2.2	...	1.9	2.1	2.5	...	...	1.4	...	...
Other diseases of heart-----430-434	...	...	1.1	...	...	...	...	...	...	...
Hypertension with heart disease-----440-443	2.9	9.3	3.4	2.1	3.1	1.7	...	2.0	1.3	...
Hypertension without mention of heart-----444-447	1.9	12.0	2.2	1.2	1.3	1.5	...	2.5	...	...
General arteriosclerosis-----450	1.8	7.5	2.3	1.5	1.5	...	0	2.2	...	...
Gangrene of unspecified cause-----455	20.0	0	20.1	18.2	16.0	0	0	0	0	0
Pneumonia, except pneumonia of newborn-----490-493	1.1	1.5	...	...	1.3	...	...	...	...	...
Appendicitis-----550-553	...	0	...	...	0	1.7	...	...	2.2	...
Acute nephritis and nephritis with edema, including nephrosis-----590,591	4.5	6.9	4.5	3.7	...	...	...	...	...	0
Chronic and unspecified nephritis and other renal sclerosis-----592-594	4.7	14.5	6.4	2.9	...	1.7	4.8	2.2	1.5	...
Symptoms, senility, and ill-defined conditions-----780-795	2.8	8.3	8.9	2.5	1.4	...	0	0	...	0
Accidents, poisonings, and violence--E800-E999	1.2	...	1.6	1.4	...	...	...	...	...	...
<u>All other</u>										
Cause of death reported with diabetes mellitus:										
Tuberculosis of respiratory system---001-008	...	...	...	...	0	1.6	...	...	...	0
All other infective and parasitic diseases-----030-138	4.3	...	...	...	0	...	...	...	...	0
Vascular lesions affecting central nervous system-----300-334	2.3	...	1.9	1.9	...	1.6	...	1.3	1.2	...
Arteriosclerotic heart disease so described-----420.0	9.3	...	8.9	6.1	...	1.9	...	1.4	1.4	...
Heart disease specified as involving coronary arteries-----420.1	5.7	...	4.6	3.8	...	1.4	...	...	...	...
Nonrheumatic chronic endocarditis and other myocardial degeneration-----421,422	2.4	...	...	2.3	...	...	...	...	...	...
Hypertension with heart disease-----440-443	3.7	...	3.1	2.4	...	2.0	...	...	1.3	0
Hypertension without mention of heart-----444-447	1.4	...	1.2	...	...	...	...	...	...	...
General arteriosclerosis-----450	1.7	...	1.3	1.2	...	1.7	0	...	...	...
Gangrene of unspecified cause-----455	32.0	0	23.0	25.4	...	0	0	0	0	0
Other diseases of circulatory system-----452-454,456-468	1.5	...	...	...	0	...	...	...	...	0
Pneumonia, except pneumonia of newborn-----490-493	1.6	...	1.7	1.6	...	...	...	...	...	0
Chronic and unspecified nephritis and other renal sclerosis-----592-594	4.1	...	4.4	...	0	1.7	...	...	...	...
Symptoms, senility, and ill-defined conditions-----780-795	7.1	16.2	12.3	4.1	...	0	0	0	0	0

Table E. Percent and percent distribution of diabetes mellitus as a contributory condition by specified causes of death, according to color: United States, 1955

Cause of death (Sixth Revision of International Lists, 1948)	Percent of contributory condition		Percent distribution of diabetes as contributory condition	
	White	All other	White	All other
All causes-----	...	...	100.0	100.0
Tuberculosis of respiratory system-----001-008	3.2	<u>4.2</u>	0.8	<u>3.1</u>
Malignant neoplasms of stomach-----151	2.7	1.6	0.7	0.5
Malignant neoplasm of intestines, except rectum---152,153	2.8	2.3	1.2	0.6
Malignant neoplasm of rectum-----154	2.9	9.0	0.5	1.7
Malignant neoplasm of pancreas-----157	6.5	5.6	1.0	1.0
Malignant neoplasm of breast-----170	4.7	5.2	0.9	1.0
Vascular lesions affecting central nervous system-330-334	<u>2.6</u>	<u>2.1</u>	<u>15.9</u>	<u>19.0</u>
Chronic rheumatic heart disease-----410-416	1.2	1.2	0.7	0.6
Arteriosclerotic heart disease so described-----420.0	3.6	2.5	19.1	10.0
Heart disease specified as involving coronary arteries-----420.1	4.3	2.7	23.6	11.3
Nonrheumatic chronic endocarditis and other myocardial degeneration-----421,422	2.7	1.9	4.1	3.6
Other diseases of heart-----430-434	1.9	2.2	0.8	1.5
Hypertensive heart disease-----440-443	3.4	3.1	7.4	16.7
Hypertension without mention of heart-----444-447	3.0	2.3	1.0	1.7
General arteriosclerosis-----450	2.2	2.7	2.0	2.1
Other diseases of circulatory system-----452-468	2.1	2.3	0.5	0.8
Chronic and unspecified nephritis and other renal sclerosis-----592-594	3.8	2.3	1.7	3.0
Pneumonia, except pneumonia of newborn-----490-493	2.3	2.3	2.5	4.2
Appendicitis-----550-553	3.1	-	0.2	-
Cirrhosis of liver-----581	2.4	0.7	1.1	0.8
All other-----	...	...	14.4	17.2

NOTE: Percentages for causes with which diabetes was significantly associated are underlined.

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Table 1. Age-adjusted death rates per 100,000 population for diabetes, by color and sex: United States, 1950-67

Year	Total			White			All other		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
	Rate per 100,000 population								
1967-----	13.7	12.9	14.4	12.7	12.4	12.8	24.5	18.5	29.7
1966-----	13.9	12.8	14.6	12.7	12.3	13.0	24.8	18.3	30.5
1965-----	13.5	12.5	14.4	12.5	11.9	12.9	23.6	18.1	28.6
1964-----	13.5	12.4	14.4	12.5	11.8	12.9	23.6	17.6	29.0
1963-----	13.8	12.4	14.9	12.7	11.9	13.3	23.1	16.6	29.1
1962-----	13.5	12.3	14.5	12.5	11.8	13.1	21.8	16.1	27.1
1961-----	13.3	11.7	14.6	12.5	11.4	13.3	21.0	14.9	26.7
1960-----	13.6	12.0	15.0	12.8	11.6	13.7	21.6	16.1	26.8
1959-----	13.0	11.3	14.5	12.4	11.0	13.5	19.4	14.1	24.2
1958-----	13.0	11.3	14.6	12.5	11.1	13.6	18.8	13.0	24.3
1957-----	13.2	11.1	15.2	12.7	10.9	14.3	18.2	12.5	23.6
1956-----	13.0	11.0	14.8	12.6	10.9	14.0	17.1	11.7	22.2
1955-----	13.0	10.9	14.8	12.6	10.9	14.1	16.5	11.2	21.6
1954-----	13.1	10.9	15.2	12.8	10.9	14.5	16.4	11.3	21.2
1953-----	13.9	11.2	16.3	13.5	11.2	15.6	17.2	11.3	22.9
1952-----	14.1	11.5	16.4	13.8	11.5	15.8	16.5	11.5	21.5
1951-----	14.2	11.3	16.9	13.9	11.2	16.4	16.6	11.8	21.3
1950-----	14.3	11.4	17.1	13.9	11.3	16.4	17.2	11.8	22.6

Table 2. Death rates per 100,000 population for diabetes, by color, sex, and age: United States, 1950-67

Year	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
Rate per 100,000 population												
<u>Total, both sexes</u>												
1967-----	17.7	0.4	0.1	0.2	0.7	2.5	4.8	12.3	36.2	94.2	169.4	234.8
1966-----	17.7	0.5	0.2	0.3	0.7	2.6	5.0	12.1	35.7	95.7	171.5	234.4
1965-----	17.1	0.5	0.2	0.3	0.7	2.6	4.7	11.9	36.1	92.6	166.4	220.0
1964-----	16.9	0.6	0.2	0.3	0.8	2.6	4.8	12.0	37.2	91.4	161.7	204.5
1963-----	17.2	0.4	0.2	0.3	0.9	2.6	5.0	12.1	37.5	95.1	165.9	206.6
1962-----	16.8	0.6	0.2	0.3	0.8	2.5	4.6	11.7	36.9	94.0	160.3	207.1
1961-----	16.4	0.3	0.2	0.3	0.7	2.7	4.7	11.3	35.8	91.4	162.9	184.5
1960-----	16.7	0.4	0.3	0.4	0.9	2.3	4.5	12.1	37.9	93.4	163.7	181.7
1959-----	15.9	0.3	0.2	0.4	0.9	2.6	3.8	11.4	37.5	89.9	154.5	158.8
1958-----	15.9	0.3	0.3	0.3	0.9	2.5	4.1	11.2	37.0	91.6	151.7	169.9
1957-----	16.0	0.3	0.3	0.4	1.2	2.6	4.5	11.2	38.0	92.5	149.8	158.1
1956-----	15.7	0.5	0.2	0.3	1.0	2.4	3.8	11.0	37.5	92.1	151.7	162.6
1955-----	15.5	0.6	0.3	0.4	1.0	2.4	3.9	10.9	37.3	91.7	150.6	163.1
1954-----	15.6	0.5	0.3	0.4	1.0	2.2	3.9	11.3	38.3	92.3	153.9	155.3
1953-----	16.3	0.5	0.3	0.4	1.2	2.4	4.1	11.7	41.7	96.2	161.7	156.4
1952-----	16.4	0.8	0.5	0.6	1.3	2.3	4.0	12.3	40.8	99.7	161.5	152.8
1951-----	16.3	0.4	0.4	0.5	1.2	2.2	3.9	12.4	42.7	99.8	161.2	151.1
1950-----	16.2	0.7	0.3	0.6	1.1	2.2	4.2	12.4	42.1	101.2	166.7	150.3
<u>Total, male</u>												
1967-----	14.9	0.3	0.1	0.2	0.6	2.9	5.7	12.5	34.6	83.9	150.7	215.9
1966-----	14.8	0.5	0.2	0.3	0.6	3.0	5.6	12.4	32.5	84.5	151.9	220.9
1965-----	14.3	0.5	0.2	0.2	0.6	3.0	5.4	12.4	32.6	80.7	146.3	207.5
1964-----	14.1	0.6	0.2	0.2	0.7	3.1	5.6	12.2	33.8	77.2	144.1	188.4
1963-----	14.2	0.3	0.1	0.2	0.7	3.0	5.5	11.8	33.3	80.4	144.9	204.9
1962-----	14.1	0.6	0.2	0.3	0.7	2.8	5.8	11.5	32.8	79.0	141.3	211.3
1961-----	13.4	0.1	0.2	0.2	0.7	3.0	5.5	11.2	31.1	74.8	138.9	170.5
1960-----	13.8	0.5	0.3	0.3	0.8	2.7	5.1	12.1	31.9	76.1	144.6	170.6
1959-----	12.9	0.2	0.2	0.3	0.8	3.0	4.2	11.4	31.0	71.7	133.5	153.5
1958-----	12.8	0.3	0.4	0.3	0.9	2.9	4.8	10.6	30.1	73.1	129.0	163.4
1957-----	12.6	0.1	0.3	0.4	1.0	3.0	5.0	10.4	29.3	71.9	127.8	145.1
1956-----	12.5	0.4	0.2	0.2	0.8	2.7	4.2	9.9	30.6	71.5	129.8	150.5
1955-----	12.4	0.8	0.3	0.4	0.9	2.6	4.4	9.9	29.8	70.7	131.2	143.4
1954-----	12.4	0.5	0.3	0.4	1.0	2.5	4.5	10.3	29.4	70.0	131.0	143.1
1953-----	12.7	0.4	0.3	0.3	1.1	2.8	4.5	9.9	30.6	71.9	136.1	151.6
1952-----	13.0	0.9	0.5	0.4	1.1	2.3	4.3	10.7	30.7	75.8	140.9	149.5
1951-----	12.5	0.5	0.4	0.3	1.0	2.2	4.0	10.8	32.1	74.6	129.4	138.3
1950-----	12.5	1.0	0.2	0.5	0.9	2.1	4.3	10.2	30.3	76.3	141.9	140.6
<u>Total, female</u>												
1967-----	20.4	0.5	0.2	0.3	0.8	2.2	3.9	12.2	37.7	102.5	182.5	246.6
1966-----	20.4	0.4	0.2	0.3	0.8	2.2	4.4	11.8	38.6	104.7	185.5	242.8
1965-----	19.8	0.5	0.2	0.4	0.7	2.3	4.1	11.5	39.4	102.3	181.0	227.8
1964-----	19.6	0.5	0.2	0.4	0.8	2.1	4.1	11.8	40.4	103.1	174.1	214.5
1963-----	20.1	0.4	0.2	0.4	1.1	2.2	4.4	12.3	41.4	107.3	181.8	207.6
1962-----	19.4	0.5	0.2	0.3	0.9	2.2	3.4	11.9	40.7	106.7	174.7	204.5
1961-----	19.3	0.5	0.2	0.4	0.8	2.5	4.0	11.4	40.2	105.6	181.4	193.2
1960-----	19.6	0.3	0.3	0.5	1.0	2.0	4.0	12.1	43.7	108.4	178.5	188.7
1959-----	18.8	0.4	0.3	0.5	1.0	2.2	3.5	11.5	43.6	105.8	170.9	162.2
1958-----	18.8	0.4	0.3	0.4	0.9	2.1	3.6	11.9	43.5	107.8	169.6	174.2
1957-----	19.2	0.5	0.3	0.6	1.3	2.3	4.1	12.0	46.2	110.8	167.2	167.0
1956-----	18.7	0.6	0.2	0.4	1.2	2.0	3.5	12.1	44.0	110.5	169.3	171.1
1955-----	18.5	0.7	0.2	0.4	1.1	2.2	3.3	11.9	44.5	110.5	166.3	177.1
1954-----	18.7	0.4	0.3	0.5	1.1	1.9	3.4	12.3	46.9	112.5	172.5	164.0
1953-----	19.8	0.5	0.3	0.5	1.2	2.0	3.7	13.4	52.5	118.3	182.6	160.0
1952-----	19.7	0.7	0.4	0.7	1.4	2.2	3.7	13.8	50.7	121.7	178.6	155.1
1951-----	20.0	0.3	0.5	0.7	1.4	2.2	3.9	14.1	53.3	122.9	187.9	160.3
1950-----	19.9	0.5	0.4	0.7	1.4	2.2	4.1	14.5	54.1	124.4	187.9	157.0

Table 2. Death rates per 100,000 population for diabetes, by color, sex, and age: United States, 1950-67--Con.

Year	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
<u>White, both sexes</u>												
Rate per 100,000 population												
1967-----	17.3	0.5	0.1	0.3	0.6	2.3	4.0	10.1	31.4	87.9	170.0	246.6
1966-----	17.2	0.4	0.2	0.3	0.6	2.4	3.9	9.6	30.9	89.6	172.2	242.7
1965-----	16.7	0.5	0.2	0.3	0.6	2.5	4.1	9.6	31.3	87.4	167.8	226.3
1964-----	16.4	0.4	0.3	0.3	0.7	2.5	4.1	9.6	31.9	87.2	162.6	208.9
1963-----	16.7	0.3	0.2	0.3	0.8	2.4	4.1	9.9	32.3	90.0	166.0	209.1
1962-----	16.4	0.5	0.2	0.3	0.7	2.4	3.9	9.3	32.2	89.9	160.6	211.4
1961-----	16.2	0.3	0.2	0.3	0.7	2.5	4.0	9.3	31.6	88.6	165.1	189.0
1960-----	16.4	0.4	0.3	0.4	0.8	2.2	3.8	9.8	33.5	91.3	165.4	184.8
1959-----	15.8	0.3	0.2	0.4	0.8	2.4	3.3	9.4	33.9	88.6	156.3	162.5
1958-----	15.8	0.4	0.3	0.3	0.8	2.3	3.6	9.4	34.1	90.4	153.9	173.6
1957-----	16.0	0.2	0.3	0.4	1.0	2.5	3.9	9.2	35.3	92.3	153.1	163.4
1956-----	15.8	0.5	0.2	0.3	0.9	2.2	3.4	9.4	34.7	92.2	155.5	169.0
1955-----	15.7	0.4	0.3	0.4	1.0	2.3	3.3	9.2	35.2	91.9	154.1	169.7
1954-----	15.8	0.4	0.3	0.4	0.9	2.1	3.4	9.4	36.2	93.1	158.6	159.6
1953-----	16.5	0.5	0.3	0.4	1.1	2.2	3.4	9.7	39.8	97.3	165.6	160.3
1952-----	16.6	0.8	0.5	0.5	1.2	2.1	3.4	10.6	39.2	101.0	165.8	157.7
1951-----	16.6	0.5	0.4	0.5	1.1	2.1	3.2	10.6	41.4	101.2	165.8	155.9
1950-----	16.4	0.8	0.3	0.5	1.0	2.0	3.3	10.5	41.0	102.0	171.3	154.9
<u>White, male</u>												
1967-----	14.9	0.4	0.1	0.2	0.5	2.6	5.1	11.1	32.6	79.8	153.3	231.1
1966-----	14.7	0.5	0.2	0.3	0.6	2.8	4.9	11.1	30.1	81.5	154.0	229.6
1965-----	14.2	0.5	0.3	0.2	0.5	2.9	4.8	11.0	30.1	77.6	148.6	216.2
1964-----	14.0	0.3	0.3	0.2	0.6	3.0	5.0	10.9	31.2	75.0	145.6	196.9
1963-----	14.2	0.3	0.1	0.2	0.6	2.8	5.0	10.9	30.9	77.5	147.0	206.2
1962-----	14.1	0.6	0.2	0.3	0.6	2.6	5.4	10.5	30.4	77.0	143.2	220.7
1961-----	13.5	0.1	0.2	0.2	0.7	2.9	5.0	10.4	29.6	72.8	143.0	175.4
1960-----	13.7	0.4	0.3	0.2	0.7	2.6	4.7	10.9	29.5	75.1	146.9	174.7
1959-----	13.0	0.2	0.2	0.3	0.8	2.8	4.1	10.2	29.2	70.9	135.8	161.7
1958-----	13.0	0.3	0.4	0.2	0.8	2.8	4.4	9.8	29.3	72.9	132.1	165.2
1957-----	12.8	0.1	0.3	0.3	0.9	2.8	4.7	9.6	28.4	71.7	132.0	148.6
1956-----	12.8	0.4	0.2	0.2	0.7	2.6	4.0	9.4	29.3	72.0	133.9	157.9
1955-----	12.8	0.6	0.3	0.3	0.9	2.5	4.1	9.4	29.1	71.7	134.5	150.3
1954-----	12.7	0.5	0.3	0.3	0.9	2.5	4.3	9.6	28.6	70.9	135.4	147.2
1953-----	13.0	0.4	0.4	0.3	1.1	2.6	4.2	9.3	30.0	73.5	139.4	155.2
1952-----	13.3	1.0	0.6	0.4	1.0	2.2	4.1	10.2	30.2	76.8	144.7	154.5
1951-----	12.8	0.5	0.4	0.3	0.9	2.2	3.7	10.1	31.4	75.5	133.6	141.8
1950-----	12.8	1.0	0.2	0.5	0.8	2.0	3.9	9.4	30.0	77.0	145.7	147.6
<u>White, female</u>												
1967-----	19.6	0.6	0.2	0.3	0.7	1.9	2.9	9.2	30.3	94.3	181.6	256.0
1966-----	19.6	0.3	0.2	0.3	0.7	2.0	3.2	8.3	31.6	96.2	185.2	250.3
1965-----	19.1	0.5	0.1	0.4	0.6	2.1	3.1	8.3	32.4	95.3	181.6	232.4
1964-----	18.8	0.5	0.3	0.4	0.7	1.9	3.2	8.4	32.6	97.1	174.9	216.2
1963-----	19.2	0.2	0.2	0.4	0.9	2.0	3.2	9.0	33.6	100.4	180.4	212.1
1962-----	18.6	0.4	0.3	0.4	0.8	2.1	2.5	8.1	34.0	100.8	173.7	205.6
1961-----	18.8	0.5	0.2	0.4	0.6	2.1	3.1	8.2	33.6	102.1	181.9	197.3
1960-----	19.1	0.3	0.3	0.5	0.9	1.8	2.9	8.7	37.2	105.4	179.6	191.2
1959-----	18.5	0.5	0.3	0.4	0.9	2.0	2.5	8.7	38.2	104.1	172.3	163.1
1958-----	18.5	0.5	0.3	0.3	0.8	1.8	2.8	9.0	38.6	105.7	170.9	179.1
1957-----	19.0	0.4	0.2	0.5	1.2	2.1	3.1	8.9	41.8	110.5	169.6	173.5
1956-----	18.6	0.7	0.2	0.3	1.0	1.8	2.8	9.3	39.7	110.3	172.6	176.7
1955-----	18.5	0.3	0.3	0.4	1.1	2.1	2.5	9.0	41.1	110.1	169.8	183.4
1954-----	18.8	0.3	0.3	0.5	1.0	1.8	2.6	9.2	43.6	113.2	177.2	168.4
1953-----	19.9	0.5	0.3	0.6	1.2	1.8	2.7	10.0	49.5	119.1	186.8	163.9
1952-----	19.9	0.7	0.4	0.6	1.3	2.1	2.8	11.0	48.0	123.2	183.0	159.9
1951-----	20.3	0.4	0.5	0.7	1.3	2.0	2.8	11.2	51.3	124.9	192.6	237.5
1950-----	20.0	0.5	0.3	0.6	1.2	1.9	2.8	11.5	52.0	125.2	192.7	159.9

Table 2. Death rates per 100,000 population for diabetes, by color, sex, and age: United States, 1950-67—Con.

Year	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
Rate per 100,000 population												
<u>All other, both sexes</u>												
1967-----	20.8	-	0.0	0.2	1.2	4.5	10.9	32.9	84.5	169.6	162.2	128.4
1966-----	21.1	0.8	0.2	0.2	1.4	4.0	12.5	34.3	83.6	167.6	162.0	154.7
1965-----	20.1	0.5	0.1	0.4	1.4	3.8	11.0	32.9	84.5	154.5	149.0	157.9
1964-----	20.1	1.4	0.1	0.3	1.3	3.6	10.9	34.1	90.2	141.3	150.9	156.3
1963-----	19.8	0.9	0.3	0.3	1.6	4.3	12.2	32.6	86.2	139.0	141.3	151.3
1962-----	18.9	0.8	0.1	0.3	1.4	3.1	10.4	33.8	79.9	129.1	144.3	151.4
1961-----	18.2	0.5	0.2	0.2	1.3	4.2	10.7	30.0	78.4	124.4	134.7	129.2
1960-----	18.8	0.7	0.3	0.4	1.7	3.4	11.1	33.0	83.4	117.0	140.2	143.8
1959-----	16.8	0.3	0.3	0.4	1.1	3.7	8.6	30.3	75.2	105.4	129.5	113.2
1958-----	16.3	0.2	0.4	0.6	1.6	3.9	8.9	29.0	68.0	106.5	121.2	125.8
1957-----	15.8	0.7	0.3	0.6	2.0	4.0	10.5	29.8	67.5	95.3	102.9	92.2
1956-----	14.7	0.2	0.1	0.3	1.9	3.6	7.8	27.0	69.1	90.8	97.8	85.2
1955-----	14.3	1.7	0.2	0.5	1.5	3.1	8.9	27.2	61.4	88.3	101.2	82.8
1954-----	14.1	1.0	0.4	0.6	1.6	3.0	8.4	29.5	62.6	82.5	86.5	100.0
1953-----	14.7	0.4	0.1	0.5	1.7	3.8	9.5	30.8	63.8	82.0	104.7	109.6
1952-----	14.1	0.2	0.2	0.9	2.1	3.2	8.6	28.3	60.9	84.2	98.7	91.8
1951-----	14.1	-	0.4	0.7	2.2	3.2	9.9	29.6	59.8	82.6	93.5	93.6
1950-----	14.4	0.5	0.4	0.7	2.2	3.6	11.5	30.5	56.4	90.3	98.4	96.0
<u>All other, male</u>												
1967-----	15.0	-	-	0.1	1.1	4.8	10.6	26.0	54.0	130.2	121.6	96.0
1966-----	15.1	0.3	0.3	0.3	1.1	4.5	11.5	24.1	56.5	118.7	127.7	143.5
1965-----	14.9	0.3	-	0.3	1.5	3.8	10.7	25.6	57.4	115.6	120.6	134.1
1964-----	14.6	2.1	0.2	0.3	1.7	3.7	10.7	24.5	59.2	102.4	126.8	105.4
1963-----	13.9	0.6	0.2	0.3	1.1	4.7	10.1	21.4	53.4	104.0	108.0	163.6
1962-----	13.7	0.6	0.2	0.3	1.3	3.8	10.0	20.6	54.0	95.3	119.0	135.5
1961-----	12.8	0.3	0.3	0.3	1.0	3.3	10.8	19.2	47.0	97.6	89.6	116.1
1960-----	13.9	1.0	0.3	0.5	2.0	3.5	9.1	23.2	55.8	86.8	116.1	127.5
1959-----	12.1	0.3	0.3	0.2	0.7	4.1	5.7	22.4	48.6	81.6	104.9	62.1
1958-----	11.2	0.3	0.3	0.4	1.5	3.8	7.8	18.4	38.4	76.0	89.2	148.1
1957-----	10.8	0.3	0.2	0.4	2.0	4.5	7.5	17.4	38.6	74.1	72.6	103.8
1956-----	10.1	0.4	-	0.2	1.4	3.4	6.1	15.0	44.5	66.0	76.2	60.0
1955-----	9.7	1.9	0.3	0.5	1.4	3.4	7.3	14.2	37.8	59.1	88.0	58.3
1954-----	9.8	0.8	0.6	0.8	1.6	2.9	6.4	17.0	38.4	59.9	72.3	90.9
1953-----	9.8	0.4	0.2	0.5	1.4	4.1	6.9	16.0	37.6	52.9	91.2	104.8
1952-----	9.9	-	0.3	0.4	2.0	3.4	5.4	15.9	37.1	64.2	88.2	85.0
1951-----	10.2	-	0.3	0.6	2.3	2.6	6.5	17.6	40.4	64.8	72.6	94.7
1950-----	10.0	1.0	0.1	0.3	1.7	3.0	8.3	18.1	33.3	67.1	88.2	58.9
<u>All other, female</u>												
1967-----	26.2	-	0.1	0.2	1.2	4.2	11.1	38.9	112.6	203.1	194.4	153.0
1966-----	26.8	1.3	0.2	0.2	1.7	3.6	13.4	43.5	108.7	209.1	190.0	163.3
1965-----	25.0	0.6	0.2	0.5	1.4	3.7	11.3	39.6	110.1	187.9	172.7	175.9
1964-----	25.3	0.6	0.1	0.3	0.9	3.5	11.0	42.8	120.0	174.6	170.7	194.0
1963-----	25.4	1.3	0.3	0.3	2.1	3.9	14.1	42.8	117.7	169.5	170.4	142.2
1962-----	23.8	0.9	-	0.3	1.5	2.5	10.8	45.9	104.8	159.3	165.8	166.7
1961-----	23.3	0.6	0.2	0.2	1.7	5.0	10.7	40.2	108.8	148.5	173.9	139.0
1960-----	23.4	0.3	0.3	0.4	1.5	3.3	12.9	42.4	110.1	144.7	161.7	156.4
1959-----	21.2	0.3	0.4	0.5	1.5	3.4	11.3	37.7	100.7	127.0	151.6	151.3
1958-----	21.1	-	0.5	0.8	1.7	3.9	9.8	39.1	96.8	134.1	150.3	113.2
1957-----	20.4	1.0	0.4	0.7	2.0	3.5	13.3	41.7	95.6	114.7	131.0	86.5
1956-----	19.1	-	0.2	0.4	2.2	3.8	9.4	38.5	93.2	113.1	118.1	102.8
1955-----	18.5	1.5	0.1	0.5	1.5	2.9	10.4	39.7	84.9	115.3	112.9	100.0
1954-----	18.1	1.2	0.2	0.4	1.5	3.0	10.3	41.8	86.9	103.4	99.2	109.4
1953-----	19.4	0.4	-	0.5	1.9	3.5	12.0	45.4	90.2	108.9	110.5	112.9
1952-----	18.1	0.4	0.1	1.3	2.2	3.1	11.5	40.4	85.5	103.1	108.6	96.6
1951-----	17.9	-	0.4	0.7	2.2	3.7	13.1	41.5	79.9	99.4	113.5	92.9
1950-----	18.7	-	0.8	1.1	2.6	4.2	14.5	43.0	80.2	113.5	108.4	122.5

Table 3. Average annual age-adjusted death rates per 100,000 population for diabetes, by geographic division, State, color, and sex: United States, 1949-51 and 1959-61

Geographic division and State	Years	Total			White			All other		
		Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Rate per 100,000 population										
United States-----	1949-51	14.5	11.5	17.3	14.1	11.4	16.7	17.1	11.9	22.4
	1959-61	13.3	11.7	14.7	12.6	11.4	13.6	20.7	15.1	26.0
New England-----	1949-51	16.4	13.3	19.1	16.4	13.2	19.1	*21.5	*18.8	*24.3
	1959-61	13.9	12.7	14.8	13.8	12.6	14.6	24.0	*19.7	*27.9
Maine-----	1949-51	*13.5	*11.7	*15.3	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	12.1	*11.0	13.0	12.1	*11.0	13.0	*28.7	*17.4	*41.5
New Hampshire-----	1949-51	*14.5	*13.6	*15.4	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	15.0	*14.8	*15.0	15.0	*14.7	*15.0	*38.3	*61.9	-
Vermont-----	1949-51	*12.3	*10.6	*13.7	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	11.3	*9.3	12.7	11.3	*9.3	12.7	-	-	-
Massachusetts-----	1949-51	16.4	13.6	*18.6	16.3	13.5	*18.6	*22.2	*20.5	*24.0
	1959-61	13.2	12.6	13.4	13.0	12.5	13.2	*23.4	*19.3	*27.2
Rhode Island-----	1949-51	*26.7	*20.0	*32.3	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	20.1	*16.7	22.8	19.7	*16.1	22.6	*46.2	*53.6	*40.1
Connecticut-----	1949-51	15.5	*11.3	*19.2	15.4	*11.3	*19.1	*19.3	*11.9	*26.1
	1959-61	14.4	12.2	16.2	14.3	12.2	15.9	*19.9	*12.4	*26.6
Middle Atlantic-----	1949-51	17.3	12.6	21.5	17.0	12.5	21.0	21.9	*15.0	*28.6
	1959-61	15.6	13.1	17.6	14.9	12.7	16.8	24.5	19.1	29.3
New York-----	1949-51	15.8	12.3	19.0	15.5	12.1	18.5	*20.2	*14.4	*25.5
	1959-61	13.7	12.3	14.8	12.9	11.8	13.9	24.5	20.1	28.1
New Jersey-----	1949-51	17.6	*12.7	21.9	17.2	*12.5	21.2	*24.9	*14.7	*35.1
	1959-61	16.5	13.4	19.1	15.9	13.1	18.2	26.0	*18.8	*32.5
Pennsylvania-----	1949-51	19.3	13.1	25.0	19.0	12.9	24.7	*22.5	*15.7	*29.5
	1959-61	17.9	14.1	21.1	17.4	13.9	20.5	*23.9	*17.8	29.7
East North Central-----	1949-51	17.3	13.4	21.0	17.0	13.4	20.6	20.3	*12.4	*28.4
	1959-61	15.9	13.6	17.9	15.3	13.4	17.0	23.1	16.2	29.9
Ohio-----	1949-51	19.1	14.8	23.1	18.7	14.6	22.5	*25.4	*16.1	*34.9
	1959-61	18.2	15.5	20.5	17.5	15.3	19.4	26.9	*18.5	35.2
Indiana-----	1949-51	14.5	*11.7	*17.2	14.3	*11.5	*16.8	*18.1	*12.2	*24.3
	1959-61	15.2	13.3	16.9	14.9	13.2	16.3	*21.7	*14.3	*28.8
Illinois-----	1949-51	15.5	11.8	19.0	15.5	12.0	18.8	*14.8	*8.9	*20.7
	1959-61	12.0	10.2	13.5	11.4	9.9	12.6	18.5	*13.6	23.2
Michigan-----	1949-51	20.6	15.8	25.5	20.3	15.8	24.9	*24.2	*13.4	*35.9
	1959-61	20.0	17.0	22.9	19.4	16.8	21.8	26.8	17.8	*36.1
Wisconsin-----	1949-51	15.4	12.5	18.3	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	14.3	12.5	15.9	14.2	12.4	15.8	*19.1	*17.2	*21.3
West North Central-----	1949-51	13.2	11.2	15.3	13.1	11.1	15.0	*17.8	*12.3	*23.3
	1959-61	12.0	11.5	12.4	11.6	11.4	11.8	22.8	15.5	*29.7
Minnesota-----	1949-51	13.4	11.3	*15.5	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	11.9	11.5	12.3	11.9	11.5	12.2	*14.3	*9.5	*19.7
Iowa-----	1949-51	12.5	*10.5	*14.4	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	11.3	11.2	11.4	11.3	11.1	11.4	*17.1	*13.8	*20.4
Missouri-----	1949-51	13.3	10.8	15.7	12.8	10.5	*15.0	*19.5	*13.5	*25.4
	1959-61	12.3	11.5	12.9	11.4	11.2	11.6	*22.5	*15.1	*29.2
North Dakota-----	1949-51	*16.6	*13.4	*20.5	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*11.6	*10.8	*12.5	*11.4	*10.8	*12.2	*31.0	*15.8	*46.9
South Dakota-----	1949-51	*13.7	*12.7	*14.9	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*11.4	*11.5	*11.2	*10.8	*11.3	*10.3	*32.1	*17.9	*48.6
Nebraska-----	1949-51	*14.2	*11.7	*16.5	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	12.8	12.5	12.9	12.5	12.3	12.5	*26.0	*21.1	*30.6
Kansas-----	1949-51	*12.4	*11.3	*13.5	*12.3	*11.4	*13.2	*12.9	*8.0	*17.8
	1959-61	12.1	11.4	12.7	11.6	11.1	12.0	*24.8	*17.6	*31.6
South Atlantic-----	1949-51	13.3	10.8	15.6	12.1	10.4	13.7	17.3	*12.2	22.2
	1959-61	12.5	11.3	13.5	10.6	10.4	10.7	20.8	15.0	25.9
Delaware-----	1949-51	*21.1	*12.8	*28.7	*20.3	*13.3	*26.6	*26.5	*4.9	*45.1
	1959-61	*20.6	*17.2	*23.4	*19.4	16.1	*22.1	*28.1	*24.1	*32.7
Maryland-----	1949-51	17.6	*13.2	*21.3	*17.3	*13.5	*20.4	*18.9	*11.7	*26.6
	1959-61	16.8	13.8	19.3	15.6	13.4	17.5	*23.3	*15.8	*30.8
District of Columbia--	1949-51	*12.9	*12.6	*13.2	*11.1	*11.9	*10.4	*17.4	*13.7	*20.3
	1959-61	10.6	11.3	*10.0	*8.3	*11.1	*6.3	*14.4	*11.5	*16.6
Virginia-----	1949-51	11.6	*8.6	*14.3	*10.2	*8.1	*12.0	*16.7	*10.4	*23.1
	1959-61	11.4	10.2	12.5	9.5	9.0	9.8	19.5	14.8	24.0

See footnote at end of table.

Table 3. Average annual age-adjusted death rates per 100,000 population for diabetes, by geographic division, State, color, and sex: United States, 1949-51 and 1959-61--Con.

Geographic division and State	Years	Total			White			All other		
		Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Rate per 100,000 population										
South--Con.										
West Virginia-----	1949-51	*11.7	*7.4	*16.2	*11.6	*7.6	*15.8	*12.5	*4.1	*22.4
	1959-61	12.1	*10.4	13.8	11.4	*10.0	12.8	*24.5	*16.0	*33.2
North Carolina-----	1949-51	11.9	*10.8	12.9	10.8	*10.2	*11.4	*15.4	*12.8	*17.9
	1959-61	13.0	12.7	13.2	10.4	11.2	9.7	*22.3	18.5	*25.7
South Carolina-----	1949-51	16.3	*15.1	*17.5	*15.3	*15.3	*15.4	*18.9	*15.8	*21.6
	1959-61	14.3	*11.3	16.8	11.1	*11.1	*11.0	22.0	*12.2	29.9
Georgia-----	1949-51	13.8	*12.4	*15.1	12.0	*12.4	*11.8	*18.5	*12.8	*23.5
	1959-61	12.1	11.4	12.6	9.8	10.7	8.9	19.0	*13.9	23.0
Florida-----	1949-51	11.3	*9.1	13.3	*9.7	*8.5	*10.8	*17.6	*11.2	*24.2
	1959-61	10.5	9.9	11.0	8.6	9.0	8.3	22.6	*15.3	29.6
East South Central-----										
Kentucky-----	1949-51	10.9	9.4	12.3	9.6	9.0	10.1	15.6	*10.9	*20.0
	1959-61	11.5	10.0	12.8	9.7	9.1	10.2	18.4	13.5	22.7
Tennessee-----	1949-51	11.3	*10.2	*12.4	*10.5	*9.7	*11.2	*21.6	*15.9	*27.2
	1959-61	11.7	9.7	13.5	11.0	9.5	12.4	20.5	*12.5	*27.8
Alabama-----	1949-51	9.5	*8.1	*10.7	*8.3	*7.8	*8.8	*15.2	*9.5	*20.6
	1959-61	10.0	9.4	10.5	8.6	8.7	8.5	17.9	*13.7	21.5
Mississippi-----	1949-51	11.0	*9.8	*12.1	*9.4	*9.6	*9.4	*14.8	*12.0	*18.7
	1959-61	12.5	11.0	13.8	10.1	10.1	10.1	18.9	*13.7	*23.4
West South Central-----										
Arkansas-----	1949-51	*12.3	*9.7	*14.8	*10.6	*9.3	*11.8	*14.7	*10.2	*19.1
	1959-61	11.9	*9.9	*13.7	8.6	*7.9	*9.1	*17.5	*13.5	*21.2
Louisiana-----	1949-51	11.9	9.7	14.0	11.1	9.5	12.7	15.7	*10.6	*20.6
	1959-61	12.6	10.9	14.1	11.1	10.4	11.7	21.1	14.2	27.3
Oklahoma-----	1949-51	*9.2	*7.2	*11.3	*8.2	*6.8	*9.8	*12.7	*8.7	*16.7
	1959-61	9.9	9.0	10.8	8.7	*9.0	8.4	*15.1	*9.2	*20.6
Texas-----	1949-51	14.6	*10.2	18.6	*13.3	*9.5	*16.6	*18.0	*12.0	*23.7
	1959-61	18.0	13.9	21.5	14.8	*12.7	16.5	25.8	17.3	*33.3
Mountain-----										
Montana-----	1949-51	11.4	*10.2	*12.5	10.9	*10.0	*11.8	*16.8	*12.9	*20.6
	1959-61	11.4	10.5	12.1	10.5	10.1	10.7	*22.1	*15.6	*27.9
Idaho-----	1949-51	11.8	10.1	13.5	11.4	10.2	12.7	*14.7	*9.8	*19.7
	1959-61	12.0	10.7	13.0	10.9	10.4	11.4	19.3	*13.5	24.7
Wyoming-----	1949-51	10.9	9.1	13.0	10.9	9.1	12.8	*11.7	*7.0	*17.4
	1959-61	10.2	9.3	11.1	10.0	9.2	10.8	*14.6	*10.4	*19.6
Colorado-----	1949-51	*10.7	*7.3	*14.9	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*12.2	*11.4	*13.1	*11.8	*11.1	*12.5	*31.2	*23.0	*41.1
New Mexico-----	1949-51	*13.9	*13.0	*15.0	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*11.4	*9.8	*13.1	*11.4	*9.8	*13.1	*13.9	*9.8	*18.3
Arizona-----	1949-51	*14.9	*9.6	*21.4	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*11.6	*10.8	*12.5	*11.3	*10.8	*11.9	*32.0	*12.5	*58.1
Utah-----	1949-51	*9.4	*8.4	*10.3	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	8.4	*7.7	9.0	8.4	*7.8	8.9	*8.8	*6.1	*11.5
Nevada-----	1949-51	*9.0	*7.6	*10.5	*8.9	*8.0	*9.9	*11.1	*3.0	*21.4
	1959-61	*10.6	*9.5	*11.7	*10.5	*9.2	*11.7	*12.1	*12.3	*11.6
Hawaii-----	1949-51	*9.5	*7.1	*11.9	*9.3	*6.7	*12.0	*10.4	*9.9	*11.1
	1959-61	9.2	*7.4	*11.0	8.9	*7.5	*10.3	*13.8	*7.2	*22.3
Pacific-----										
Washington-----	1949-51	*13.3	*11.0	*15.7	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*11.3	*10.3	*12.1	*11.2	*10.3	*12.0	*16.1	*17.6	*14.8
Oregon-----	1949-51	*12.2	*12.5	*11.9	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*12.8	*14.0	*11.6	*12.5	*13.9	*11.0	*17.0	*15.1	*20.8
California-----	1949-51	9.0	8.3	9.8	8.9	8.2	9.7	*11.0	*10.9	*11.1
	1959-61	8.8	8.3	9.4	8.5	8.0	8.9	15.1	12.6	*18.3
Alaska-----	1949-51	*12.4	*10.8	*14.1	*12.3	*10.8	*14.0	*17.3	*13.8	*22.4
	1959-61	11.3	10.3	*12.2	11.2	10.2	12.1	*16.3	*15.3	*18.1
Hawaii-----	1949-51	*9.5	*7.9	*11.2	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*9.2	*8.2	10.2	9.2	*8.1	10.1	*11.4	*10.0	*13.4
Alaska-----	1949-51	8.2	7.6	8.6	8.1	7.5	8.6	*10.2	*11.0	*9.2
	1959-61	8.1	7.7	8.5	7.8	7.4	8.0	14.3	11.4	17.6
Hawaii-----	1949-51	---	---	---	---	---	---	---	---	---
	1959-61	*7.9	*9.9	*4.4	*8.3	*10.4	*4.3	*8.1	*9.1	*7.1
Hawaii-----	1949-51	---	---	---	---	---	---	---	---	---
	1959-61	*18.5	*15.5	*22.3	*21.2	*16.7	*25.3	17.8	*15.4	*21.2

¹Rate not computed where the 1950 population for all other races formed less than 10-percent of the total population and numbered less than 50,000.

Table 4. Average annual death rates per 100,000 population for diabetes, by color, sex, geographic division, State, and age: United States, 1949-51 and 1959-61

Characteristics	Years	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
Total, both sexes		Rate per 100,000 population											
United States--	1949-51	16.4	0.6	0.4	0.5	1.2	2.2	4.1	12.5	43.1	101.9	167.7	155.2
	1959-61	16.4	0.4	0.2	0.4	0.8	2.5	4.4	11.6	37.2	91.6	162.0	175.6
New England-----	1949-51	21.9	*0.6	*0.3	*0.2	0.6	2.4	3.7	12.6	50.7	121.3	198.5	179.7
	1959-61	19.6	*0.7	*0.1	0.4	0.5	2.5	4.5	10.4	36.4	100.8	184.0	185.4
Maine-----	1949-51	18.1	-	*0.6	*0.3	*0.7	*3.9	*2.1	*9.4	38.7	105.1	150.2	*160.3
	1959-61	17.4	-	-	-	*0.7	*2.9	*2.5	9.8	30.4	90.2	148.1	189.4
New Hampshire-----	1949-51	21.0	-	*1.1	*0.6	*0.7	*2.6	*4.9	*9.4	42.7	95.0	191.6	*229.6
	1959-61	21.9	*2.5	-	*0.3	*0.4	*1.4	*4.7	12.5	44.2	100.8	207.3	174.1
Vermont-----	1949-51	16.1	-	*1.5	-	-	*1.8	*4.8	*5.2	*13.3	33.6	65.8	144.3
	1959-61	16.7	-	-	-	-	*0.6	*2.3	*4.3	*7.7	28.3	81.6	139.8
Massachusetts-----	1949-51	22.4	*1.2	*0.3	*0.1	*0.4	2.2	3.6	13.1	51.8	118.9	198.1	181.1
	1959-61	19.1	*1.2	*0.2	*0.5	*0.6	2.9	4.2	9.9	33.6	91.0	179.6	181.0
Rhode Island-----	1949-51	33.3	-	-	-	-	*1.2	*2.3	*4.0	20.5	75.4	219.7	337.6
	1959-61	28.0	-	-	*0.2	-	*2.5	6.1	13.7	51.2	163.7	267.0	*207.5
Connecticut-----	1949-51	19.3	-	-	*0.4	*0.8	*2.1	4.0	10.1	48.3	116.0	188.2	165.2
	1959-61	18.6	-	-	*0.1	*0.5	2.0	5.1	10.4	39.0	107.8	183.4	186.9
Middle Atlantic-----	1949-51	20.8	*0.7	0.4	0.4	0.9	2.0	3.9	13.4	55.7	128.1	200.3	147.5
	1959-61	20.7	*0.7	0.3	0.3	0.7	2.5	4.5	12.5	43.4	112.4	196.5	189.2
New York-----	1949-51	19.4	*0.6	*0.7	*0.4	0.9	1.9	3.4	11.8	50.9	117.6	186.0	128.7
	1959-61	18.6	*0.5	*0.3	0.3	0.7	2.4	4.4	11.1	36.9	97.9	173.9	172.0
New Jersey-----	1949-51	20.9	*0.6	*0.1	*0.2	*0.6	1.8	4.0	13.5	56.8	130.3	213.5	161.2
	1959-61	20.9	*1.0	*0.3	*0.3	*0.8	2.1	3.9	12.8	65.9	124.3	210.9	203.7
Pennsylvania-----	1949-51	22.8	*1.0	*0.2	*0.6	1.0	2.1	4.7	16.0	42.4	142.3	213.9	167.8
	1959-61	23.8	*0.9	*0.5	*0.3	0.8	2.7	4.8	14.6	52.6	128.7	221.8	206.3
East North Central---	1949-51	20.6	*0.7	*0.4	0.7	1.3	2.3	4.2	14.8	52.0	127.6	193.6	170.1
	1959-61	19.7	*0.2	*0.2	0.4	0.8	2.5	4.7	12.8	43.9	114.3	197.9	211.4
Ohio-----	1949-51	23.4	*1.2	*0.3	*0.5	1.2	2.5	4.9	16.7	57.0	144.1	210.8	179.3
	1959-61	22.5	-	*0.2	0.4	0.7	2.5	5.1	14.4	51.7	134.3	223.8	240.2
Indiana-----	1949-51	17.9	*0.6	*0.3	*0.7	*1.5	1.6	3.4	12.3	44.3	107.5	154.3	158.8
	1959-61	19.4	*0.3	-	*0.1	*0.8	*1.9	3.0	13.3	43.5	108.6	202.2	186.9
Illinois-----	1949-51	19.0	*0.3	*0.4	*0.7	1.2	1.9	4.0	12.4	47.8	111.0	182.2	154.3
	1959-61	15.3	*0.3	*0.3	0.5	0.8	2.3	4.3	10.9	32.0	84.0	137.6	156.2
Michigan-----	1949-51	21.8	*0.4	*0.5	*0.7	1.3	2.3	4.2	17.4	62.1	158.1	225.7	221.3
	1959-61	22.5	*0.3	*0.2	*0.3	0.9	2.6	5.5	14.2	55.3	148.0	264.2	274.1
Wisconsin-----	1949-51	19.0	*1.3	*0.2	*0.5	*1.2	3.4	4.2	15.0	42.8	107.2	182.7	128.5
	1959-61	18.8	-	*0.2	*0.5	*1.2	3.7	4.8	11.1	38.1	96.3	176.7	210.4
West North Central---	1949-51	17.5	*1.2	*0.3	0.6	0.9	2.4	4.1	9.5	35.4	94.3	173.0	162.0
	1959-61	17.2	*0.2	*0.3	0.5	0.9	3.3	4.2	8.6	29.8	79.5	156.3	179.0
Minnesota-----	1949-51	16.8	*0.7	*0.2	*0.6	*1.3	3.2	4.4	9.2	32.0	99.5	168.6	218.0
	1959-61	15.9	*0.8	*0.2	*0.5	*1.0	3.3	5.3	9.9	27.9	79.1	147.6	204.4
Iowa-----	1949-51	17.4	*1.8	*0.2	*0.2	*0.8	*2.0	4.8	8.0	32.6	91.2	160.7	182.4
	1959-61	17.2	-	*0.4	*0.5	*0.9	2.8	3.6	10.6	25.7	72.6	155.6	196.1
Missouri-----	1949-51	18.1	*1.3	*0.8	*0.7	*1.1	1.9	3.8	11.1	41.6	92.6	154.0	109.7
	1959-61	17.9	-	*0.3	*0.5	*1.1	3.5	4.4	10.1	34.7	82.8	138.3	145.8
North Dakota-----	1949-51	18.1	-	-	*0.4	*1.5	*3.5	*3.8	*9.6	33.4	129.7	277.8	*110.5
	1959-61	14.8	-	*0.5	*0.2	-	*4.1	*4.1	*6.8	23.9	72.2	199.1	240.0
South Dakota-----	1949-51	16.2	*3.2	-	*0.9	*0.5	*2.1	*3.1	*11.3	27.3	105.1	202.7	*170.9
	1959-61	15.2	-	-	*0.5	*1.8	*3.0	*5.0	9.4	22.2	70.0	178.5	*140.0
Nebraska-----	1949-51	19.1	-	-	*1.0	*0.3	*2.4	*4.9	9.8	37.4	92.2	219.2	165.9
	1959-61	19.0	-	*0.3	*0.2	*1.1	*3.7	4.1	10.3	28.4	89.4	177.2	162.5
Kansas-----	1949-51	17.0	*1.3	-	*0.5	*0.7	*2.5	*3.2	9.5	33.2	83.9	173.6	162.5
	1959-61	17.7	-	*0.2	*0.6	*0.6	3.2	2.8	7.6	32.0	80.6	176.0	196.0
South Atlantic-----	1949-51	12.4	*0.4	*0.4	0.6	1.5	2.3	5.5	15.1	40.2	80.8	138.0	160.0
	1959-61	13.5	*0.2	0.3	0.4	0.9	2.5	5.2	13.6	39.0	75.9	133.2	151.6
Delaware-----	1949-51	24.5	-	-	-	*2.3	*1.9	*3.2	*14.7	67.9	158.1	262.1	*183.0
	1959-61	22.6	*0.3	-	-	*1.1	*1.2	*0.5	*4.7	17.8	64.9	150.3	246.5
Maryland-----	1949-51	17.8	-	*1.0	*0.1	*1.2	*1.2	4.2	14.7	58.0	125.6	203.3	197.5
	1959-61	17.4	-	*0.3	*0.3	*0.6	2.5	4.2	13.3	50.0	122.0	203.4	215.7
D.C-----	1949-51	14.0	-	-	-	*0.4	*0.9	*6.3	18.2	42.7	57.6	173.1	*174.4
	1959-61	13.0	-	-	-	*0.9	*4.0	7.5	12.3	27.2	56.1	110.9	161.8
Virginia-----	1949-51	10.7	-	*0.3	*0.5	*1.6	2.0	4.2	12.8	30.8	82.4	112.6	135.6
	1959-61	11.6	-	*0.4	*0.3	*0.4	1.9	4.8	11.9	32.5	75.8	127.0	143.8
West Virginia-----	1949-51	11.4	-	*0.3	*0.6	*1.4	*2.7	3.9	9.5	34.2	82.2	120.2	*158.8
	1959-61	14.7	-	*0.2	*0.5	*0.9	*2.9	4.6	11.5	35.5	76.9	142.0	128.3
North Carolina-----	1949-51	9.7	*0.5	*0.2	*0.2	1.6	2.6	4.3	11.4	34.7	76.5	127.5	162.7
	1959-61	12.5	*0.3	*0.2	*0.4	1.4	2.9	5.3	14.1	38.5	80.0	138.0	162.3
South Carolina-----	1949-51	12.8	*0.9	*0.4	*0.9	*1.3	3.4	8.8	26.4	53.6	81.4	129.6	*178.9
	1959-61	12.6	*0.6	*0.1	*0.4	*0.9	*1.5	6.8	17.3	53.5	81.5	131.7	120.9
Georgia-----	1949-51	12.3	*0.6	*0.1	*1.1	*1.7	3.4	7.3	19.2	41.7	68.8	132.0	162.0
	1959-61	12.0	-	*0.4	*0.3	1.2	3.5	6.1	16.2	39.0	62.3	112.4	141.5
Florida-----	1949-51	12.8	*0.9	*0.9	*0.9	*1.5	*1.5	6.3	13.7	32.4	61.1	120.8	135.9
	1959-61	13.9	-	*0.3	*0.5	*1.0	2.2	4.4	12.0	34.2	58.7	106.9	137.0
East South Central---	1949-51	10.6	*0.4	*0.4	0.7	1.2	2.3	4.4	11.9	30.4	70.6	115.3	101.4
	1959-61	13.1	*0.5	*0.2	0.4	1.0	2.5	4.2	13.1	32.0	74.1	123.0	134.1
Kentucky-----	1949-51	12.2	-	*0.2	*0.6	*1.5	2.5	3.3	11.1	27.0	86.1	127.0	91.8
	1959-61	14.6	-	-	*0.4	*0.5	2.6	3.5	12.0	29.2	86.9	130.8	155.0
Tennessee-----	1949-51	9.3	-	*0.3	*0.6	*0.9	*1.7	3.9	10.4	27.6	54.7	110.7	131.9
	1959-61	11.5	*0.8	-	*0.3	*1.9	1.9	3.7	12.5	29.3	60.7	108.1	113.1
Alabama-----	1949-51	9.9	*0.7	*0.5	*0.7	*1.5	2.9	5.1	12.1	33.0	69.6	97.5	*83.7
	1959-61	13.3	*0.4	*0.4	*0.5	*1.3	3.3	5.5	13.4	36.8	73.5	136.2	140.8
Mississippi-----	1949-51	11.5	*0.9	*0.9	*0.9	*0.8	*2.2	5.7	15.3	37.0	73.1	125.3	*94.7
	1959-61	13.3	*0.6	*0.3	*0.5	*1.3	*2.3	4.0	15.3	33.7	77.4	116.8	126.6

Table 4. Average annual death rates per 100,000 population for diabetes, by color, sex, geographic division, State, and age: United States, 1949-51 and 1959-61--Con.

Characteristics	Years	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
<u>Total, both sexes--Con.</u>		Rate per 100,000 population											
West South Central	1949-51	11.8	*0.3	*0.5	0.5	1.5	2.1	3.7	12.8	32.0	77.9	134.8	153.4
	1959-61	14.3	*0.5	*0.2	0.3	0.9	2.3	4.1	12.2	36.9	84.3	144.4	163.1
Arkansas	1949-51	9.6	*1.2	*0.8	*0.4	*2.7	*2.3	*3.8	8.8	24.9	59.1	88.6	*82.9
	1959-61	13.1	-	-	*0.1	*1.3	*2.1	5.0	10.8	28.2	65.3	90.2	126.5
Louisiana	1949-51	13.6	-	*0.2	*0.3	*0.7	*1.9	4.9	18.3	40.8	96.7	159.6	196.1
	1959-61	18.5	-	*0.1	*0.2	*1.1	2.4	4.1	16.4	54.0	129.0	210.3	234.2
Oklahoma	1949-51	13.2	-	*0.5	*0.6	*1.4	*2.8	4.6	9.0	30.0	75.8	131.5	163.5
	1959-61	15.8	*2.0	*0.2	*0.5	*0.7	2.4	4.5	11.4	31.2	69.5	136.3	192.8
Texas	1949-51	11.4	*0.3	*0.6	*0.6	1.4	1.9	3.1	13.1	31.6	77.5	143.6	153.7
	1959-61	12.8	*0.4	*0.3	0.4	0.9	2.3	3.9	11.3	34.8	79.3	140.8	138.0
Mountain	1949-51	11.0	-	*0.2	*0.3	1.4	2.8	3.4	9.3	28.0	70.5	140.7	176.0
	1959-61	10.7	*0.2	*0.2	*0.3	0.9	2.5	4.3	7.9	26.3	67.9	124.4	177.7
Montana	1949-51	12.4	-	*0.9	*0.5	*1.2	*2.8	*5.0	*9.9	30.0	46.0	173.3	*153.2
	1959-61	15.5	-	-	*0.5	*1.1	*2.9	*4.3	*6.8	30.2	83.0	176.4	209.9
Idaho	1949-51	14.5	-	*0.4	*1.7	*2.8	*4.4	*4.3	*6.3	36.2	95.5	218.1	*232.1
	1959-61	13.4	-	-	*0.4	*1.8	*2.2	*6.0	*7.4	23.3	84.8	129.1	278.0
Wyoming	1949-51	13.9	-	-	-	*3.2	*4.3	*1.2	*6.6	*38.3	*112.6	*154.9	*521.5
	1959-61	12.6	-	-	-	*1.5	*3.1	*4.6	*8.3	26.2	68.3	161.7	*353.8
Colorado	1949-51	11.1	-	-	-	*1.0	*2.1	*2.5	8.5	23.5	58.4	122.8	*124.8
	1959-61	9.8	-	*0.2	*0.2	*1.0	2.9	4.2	7.4	20.2	56.6	86.8	130.6
New Mexico	1949-51	6.8	-	-	*0.4	*1.3	*0.9	*4.0	*11.6	27.9	50.6	*80.5	*182.6
	1959-61	8.5	-	*0.6	*0.7	*0.5	*2.5	*2.5	10.3	26.2	74.4	135.9	*129.5
Arizona	1949-51	8.4	-	-	*0.3	*1.8	*2.2	*3.8	*12.4	26.1	62.0	*78.7	*100.4
	1959-61	8.9	-	*0.3	*0.1	*0.5	*1.2	4.2	8.1	28.7	59.7	106.7	*122.2
Utah	1949-51	11.9	-	*0.7	*0.7	*0.4	*2.4	*2.3	*9.4	31.6	103.7	176.6	*228.0
	1959-61	10.7	-	*0.3	*0.3	*1.0	*3.8	*2.9	*7.2	27.1	76.2	152.1	235.8
Nevada	1949-51	12.5	-	-	-	*4.9	*1.8	*5.7	*12.6	*7.3	*101.2	*151.4	*228.8
	1959-61	12.6	*4.8	-	-	*0.9	*0.8	*10.8	*9.3	48.4	52.8	169.0	*166.3
Pacific	1949-51	10.7	*0.3	*0.2	0.5	1.0	1.7	2.8	6.3	23.4	63.0	117.1	133.7
	1959-61	10.5	*0.2	*0.2	0.3	0.7	2.3	3.2	7.6	23.6	57.1	109.5	137.5
Washington	1949-51	15.2	*1.0	*0.5	*0.8	*1.4	*2.0	*2.8	7.4	29.0	93.0	165.0	258.6
	1959-61	14.8	*0.5	*0.4	*0.4	*0.6	3.3	2.4	8.9	28.6	72.6	159.2	222.0
Oregon	1949-51	11.6	-	-	*0.4	*1.2	*1.5	1.8	6.7	24.0	62.3	151.5	*130.9
	1959-61	12.5	-	*0.4	*0.3	*0.4	*2.1	4.0	8.1	22.2	60.6	116.9	159.0
California	1949-51	9.6	*0.2	*0.2	*0.5	0.8	1.7	3.0	6.0	22.1	55.9	100.6	104.6
	1959-61	9.5	*0.2	*0.1	0.3	0.8	2.3	3.3	7.1	21.9	51.8	95.7	113.9
Alaska	1949-51	---	---	---	---	---	---	---	---	---	---	---	---
	1959-61	3.7	---	---	*0.7	*0.8	---	*4.2	*1.8	*21.9	*53.4	*123.1	*116.1
Hawaii	1949-51	---	---	---	---	---	---	---	---	---	---	---	---
	1959-61	13.4	---	*0.5	---	*0.6	*0.4	*3.3	15.7	57.3	142.5	214.2	*295.4
<u>Total, male</u>													
United States	1949-51	12.6	0.7	0.3	0.4	0.9	2.2	4.2	10.6	31.6	76.4	138.0	144.4
	1959-61	13.4	*0.3	0.2	0.3	0.8	2.9	5.0	11.6	31.4	74.1	140.4	166.1
New England	1949-51	16.4	*0.6	*0.3	*0.1	*0.6	2.7	4.3	11.3	37.7	90.4	169.0	155.3
	1959-61	15.7	*0.9	*0.1	*0.1	*0.8	2.9	5.4	12.2	33.3	83.6	155.1	154.9
Maine	1949-51	15.2	-	-	-	*0.7	*4.0	*1.7	*7.0	34.2	82.3	155.7	*140.0
	1959-61	14.4	-	-	*0.3	*1.5	*2.9	*3.4	*10.2	24.5	77.8	133.1	*180.4
New Hampshire	1949-51	18.5	-	-	-	*1.3	*4.0	*7.1	*11.2	*33.2	69.0	210.8	*258.5
	1959-61	19.1	*4.9	-	-	*0.8	*1.9	*6.9	*18.8	36.7	91.5	191.2	*157.7
Vermont	1949-51	13.0	-	*2.9	-	-	*5.8	*4.1	*9.7	*38.6	*50.6	*111.6	*105.9
	1959-61	11.6	-	-	-	*1.2	*3.1	*8.7	*6.2	*19.6	59.8	*106.6	*118.5
Massachusetts	1949-51	16.9	*1.2	*0.3	-	*0.3	*2.5	4.6	13.8	38.3	91.0	169.1	142.1
	1959-61	15.8	*1.2	*0.1	*0.2	*0.7	3.4	5.6	12.7	33.6	77.6	155.0	147.5
Rhode Island	1949-51	22.7	-	-	-	*0.8	*3.9	*4.6	*16.5	47.3	151.6	273.5	*284.6
	1959-61	20.5	-	-	-	-	*3.2	*4.6	*12.3	41.1	136.3	213.9	*162.6
Connecticut	1949-51	13.4	-	-	*0.3	*1.1	*1.2	*4.0	*5.9	34.9	85.0	135.7	*122.3
	1959-61	14.3	-	-	*0.9	*1.9	5.2	11.4	34.6	82.3	144.3	161.8	
Middle Atlantic	1949-51	14.6	*1.1	*0.4	*0.3	0.7	1.9	4.3	11.8	37.5	88.2	142.4	126.0
	1959-61	16.2	*0.4	*0.3	0.2	0.6	2.8	4.8	12.8	35.8	86.0	162.0	165.0
New York	1949-51	14.4	*0.8	*0.7	*0.2	*0.6	2.1	3.6	10.9	37.4	89.3	132.8	116.4
	1959-61	15.5	-	*0.2	*0.3	*0.6	2.9	4.3	12.0	33.2	82.6	148.0	164.3
New Jersey	1949-51	14.3	*1.1	*0.3	*0.1	*0.6	*2.0	3.9	12.0	40.6	85.5	146.1	*104.8
	1959-61	15.6	*1.0	*0.3	*0.2	*0.6	2.7	4.7	13.4	33.9	92.7	170.8	154.5
Pennsylvania	1949-51	14.9	*1.5	*0.1	*0.4	*0.8	1.6	5.6	13.3	36.1	88.0	153.4	148.8
	1959-61	17.4	*0.6	*0.4	*0.1	*0.7	2.8	5.6	13.9	41.0	87.8	177.5	170.3
East North Central	1949-51	15.6	*0.9	*0.4	0.5	1.2	2.4	4.4	12.2	37.5	90.5	160.7	150.0
	1959-61	15.8	*0.2	*0.1	0.3	0.8	2.6	5.3	12.8	36.6	90.5	164.5	199.2
Ohio	1949-51	17.5	*2.3	*0.4	*0.7	*1.5	2.6	5.2	14.3	41.1	101.1	171.5	120.6
	1959-61	17.8	-	*0.1	*0.2	*0.7	2.8	5.8	14.6	42.3	107.5	179.5	234.2
Illinois	1949-51	14.0	-	*0.4	*0.4	*1.1	2.3	4.1	8.7	33.6	80.0	149.1	134.6
	1959-61	12.1	*0.6	*0.1	*0.6	*0.8	2.3	4.9	11.1	27.0	63.5	110.0	143.2
Indiana	1949-51	13.9	-	*0.3	*0.5	*1.1	*2.0	*3.6	11.1	34.5	78.0	125.7	179.0
	1959-61	15.8	*0.6	-	*0.1	*0.9	*1.6	2.9	12.6	36.7	89.5	185.0	176.0
Michigan	1949-51	16.5	*0.7	*0.5	*0.5	*1.0	2.3	4.4	14.5	41.7	112.4	194.2	215.9
	1959-61	18.3	-	*0.1	*0.1	*0.7	2.9	6.4	13.3	45.2	118.7	221.8	251.2
Wisconsin	1949-51	15.2	*1.3	*0.3	*0.5	*1.5	*2.4	4.5	13.6	36.0	73.1	158.1	*120.3
	1959-61	15.4	-	-	*0.3	*1.4	4.1	5.7	12.0	33.2	72.5	147.5	196.6

Table 4. Average annual death rates per 100,000 population for diabetes, by color, sex, geographic division, State, and age: United States, 1949-51 and 1959-61--Con.

Characteristics	Years	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
<u>Total, male--Con.</u>		Rate per 100,000 population											
<u>Pacific--Con.</u>													
Alaska-----	1949-51	---	---	---	---	---	---	---	---	---	---	---	---
	1959-61	*4.7	-	-	-	-	-	*3.7	*3.0	*29.3	*71.9	*157.4	*185.2
Hawaii-----	1949-51	---	---	---	---	---	---	---	---	---	---	---	---
	1959-61	11.7	-	-	-	*0.5	-	*4.3	*12.2	49.2	116.9	155.8	*377.1
<u>Total, female</u>													
United States--	1949-51	20.2	*0.4	0.4	0.7	1.4	2.2	4.0	14.4	54.8	125.5	192.9	162.8
	1959-61	19.3	0.4	0.3	0.5	0.9	2.2	3.8	11.7	42.6	106.8	178.8	181.7
New England-----	1949-51	27.2	*0.6	*0.4	*0.3	*0.7	2.2	3.1	13.7	62.9	147.1	220.4	193.9
	1959-61	23.3	*0.6	*0.2	*0.6	*0.3	2.2	3.6	8.7	39.2	114.6	203.9	201.8
Maine-----	1949-51	20.9	-	*1.3	*0.7	*0.7	*3.8	*2.5	*11.7	43.1	126.5	145.5	*174.2
	1959-61	20.3	-	-	*1.1	-	*2.8	*1.7	*9.3	35.8	100.9	159.8	194.9
New Hampshire-----	1949-51	23.4	-	*2.3	*1.3	-	*1.3	*2.7	*7.7	51.8	118.3	176.1	*211.2
	1959-61	24.5	-	-	*0.6	-	*0.9	*2.5	*6.5	50.9	108.7	219.0	*183.0
Vermont-----	1949-51	19.2	-	-	-	*3.5	*3.8	*6.2	*16.9	*28.7	79.4	170.3	*180.2
	1959-61	21.5	-	-	-	-	*1.5	-	*9.2	36.5	99.8	163.4	*290.1
Massachusetts-----	1949-51	27.6	*1.2	*0.3	*0.2	*0.4	*1.9	*2.6	12.6	64.2	141.0	218.6	202.2
	1959-61	27.6	*1.2	*0.3	*0.7	*0.5	2.4	2.8	7.3	33.6	101.3	195.6	197.9
Rhode Island-----	1949-51	43.6	-	-	-	*1.8	*0.8	*3.4	24.2	101.5	275.1	383.7	*163.2
	1959-61	35.2	-	-	*0.4	-	*1.9	*7.5	15.0	59.9	185.7	302.2	203.4
Connecticut-----	1949-51	25.1	-	-	*0.4	*0.4	*2.8	*3.9	14.1	61.5	143.5	228.0	190.6
	1959-61	22.7	-	-	*0.3	*0.2	*2.2	5.0	9.4	43.1	129.4	211.7	210.4
Middle Atlantic-----	1949-51	26.8	*0.4	*0.4	0.6	1.1	2.1	3.6	15.0	73.8	163.8	245.4	160.7
	1959-61	25.0	*1.1	*0.4	0.4	0.8	2.1	4.1	12.2	50.4	134.9	222.2	203.2
New York-----	1949-51	24.1	*0.4	*0.7	*0.6	1.2	1.8	3.2	12.7	64.4	142.5	226.6	136.3
	1959-61	21.4	*1.0	*0.4	*0.3	0.7	2.0	4.5	10.2	40.4	110.8	193.1	176.3
New Jersey-----	1949-51	27.4	-	-	*0.3	*0.6	*1.6	4.1	15.2	72.8	169.9	263.9	194.5
	1959-61	26.0	*1.1	*0.3	*0.4	*1.0	*1.5	3.2	12.3	57.1	150.7	239.6	230.8
Pennsylvania-----	1949-51	30.5	*0.5	*0.2	*0.8	1.3	2.6	3.9	18.5	88.7	192.5	263.4	179.7
	1959-61	29.8	*1.2	*0.6	*0.4	0.9	2.6	4.1	15.2	63.3	164.0	255.5	228.1
East North Central----	1949-51	25.6	*0.5	*0.3	0.8	1.3	2.2	4.0	17.4	66.9	163.0	221.8	184.4
	1959-61	23.5	*0.2	*0.3	0.5	0.8	2.4	4.0	12.9	51.0	135.5	224.0	219.2
Ohio-----	1949-51	29.2	-	*0.2	*0.4	*0.9	2.3	4.7	19.1	73.2	184.2	243.7	218.7
	1959-61	27.1	-	*0.3	*0.5	*0.7	2.2	4.4	14.3	60.6	157.6	257.7	243.9
Indiana-----	1949-51	21.8	*1.2	*0.3	*1.0	*1.9	*1.3	*3.2	13.5	54.1	135.1	179.9	144.1
	1959-61	22.9	-	-	*0.1	*0.8	2.2	3.0	13.9	49.9	125.2	215.6	194.2
Illinois-----	1949-51	23.9	*0.6	*0.5	*1.1	*1.3	1.5	3.8	16.0	62.2	140.3	209.5	167.6
	1959-61	18.5	-	*0.4	*0.5	*0.7	2.3	3.6	10.8	36.7	101.6	158.7	164.2
Michigan-----	1949-51	27.2	-	*0.5	*1.0	*1.6	2.3	3.9	20.5	85.0	203.8	253.4	225.4
	1959-61	26.7	*0.7	*0.3	*0.6	*1.1	2.3	4.5	15.1	65.6	175.8	298.1	298.1
Wisconsin-----	1949-51	22.8	*1.4	-	*0.6	*1.0	4.3	*3.8	16.5	49.9	141.3	205.6	135.1
	1959-61	22.2	-	*0.4	*0.7	*1.0	3.4	3.9	10.2	42.8	118.5	200.9	220.0
West North Central----	1949-51	20.6	*0.7	*0.4	*0.7	1.1	2.2	3.6	11.1	44.1	111.8	195.0	154.2
	1959-61	19.1	-	*0.3	0.6	0.8	2.2	3.1	8.5	31.7	92.2	163.8	173.7
Minnesota-----	1949-51	19.8	-	-	*0.6	*1.4	*1.8	2.8	9.0	40.4	118.3	227.3	196.4
	1959-61	17.5	-	*0.2	*0.6	*0.6	*2.3	3.5	6.5	30.4	96.2	160.6	200.6
Iowa-----	1949-51	20.7	*1.8	*0.5	-	*0.8	*1.9	*5.4	9.7	41.0	105.9	181.3	174.0
	1959-61	18.8	-	*0.6	*1.0	*0.9	*2.1	*2.0	9.6	27.0	80.6	158.2	182.1
Missouri-----	1949-51	21.7	*1.4	*1.3	*1.2	*1.2	*2.0	3.8	13.4	51.3	113.4	167.0	104.5
	1959-61	20.4	-	*0.2	*0.6	*0.8	*2.3	3.7	9.3	37.2	96.9	146.9	149.5
North Dakota-----	1949-51	21.2	-	-	-	*2.1	*4.8	*2.6	*11.9	44.7	150.8	359.4	*185.0
	1959-61	16.2	-	*1.1	-	-	*3.7	*2.8	*4.1	28.3	90.6	207.4	*272.6
South Dakota-----	1949-51	17.3	-	-	*0.9	-	*1.1	-	*13.3	37.2	129.0	191.0	*159.8
	1959-61	15.8	-	-	*0.5	*1.5	*2.6	*1.7	*8.6	*19.3	82.8	186.9	*135.9
Nebraska-----	1949-51	22.6	-	-	*1.0	*0.5	*2.6	*4.6	13.0	41.3	114.5	242.1	*216.8
	1959-61	20.7	-	*0.5	-	*1.1	*2.8	*3.1	9.3	28.4	96.8	193.2	151.6
Kansas-----	1949-51	18.6	-	-	*0.7	*1.1	*3.2	*2.8	9.2	42.5	92.3	170.7	*116.6
	1959-61	19.9	-	*0.3	*1.0	*0.7	*1.0	*2.9	8.9	34.5	92.0	176.7	182.0
South Atlantic-----	1949-51	15.0	*0.4	*0.5	0.8	1.8	2.4	6.0	18.1	48.2	96.4	157.2	158.9
	1959-61	15.6	*0.2	*0.2	0.4	1.0	1.9	4.9	14.2	44.9	84.6	143.9	152.6
Delaware-----	1949-51	34.2	-	-	-	*4.4	*3.6	*6.4	*18.8	92.8	238.2	279.5	*124.7
	1959-61	27.5	*6.0	-	*0.8	*2.3	*1.1	*6.2	*13.8	69.7	189.2	280.8	*183.6
Maryland-----	1949-51	23.0	-	*1.0	-	*1.7	*0.7	*3.8	16.8	74.6	149.5	262.3	209.0
	1959-61	21.7	-	*0.2	*0.2	*0.8	*2.3	4.2	14.9	61.2	164.6	224.9	185.0
D.C.-----	1949-51	15.4	-	-	-	*0.8	*1.2	*8.3	*15.4	38.9	61.6	98.7	*113.6
	1959-61	13.7	-	-	-	*1.1	*4.3	*5.8	*8.5	27.1	59.9	98.8	*188.4
Virginia-----	1949-51	13.9	-	*0.3	*0.3	*1.9	*1.8	*4.2	14.9	39.3	107.6	142.0	*158.1
	1959-61	13.7	-	*0.4	*0.4	*0.6	*1.4	4.2	12.5	38.0	85.9	137.6	144.4
West Virginia-----	1949-51	15.5	-	-	*0.8	*1.2	*3.9	*4.3	12.3	49.7	122.5	162.3	*169.7
	1959-61	17.2	-	-	*0.5	*1.2	*0.9	*4.0	10.6	44.9	99.7	159.2	140.9
North Carolina-----	1949-51	10.9	-	*0.5	*0.3	*2.1	3.1	3.7	13.5	34.7	88.0	136.6	*141.9
	1959-61	13.6	*0.6	*0.2	*0.5	*1.2	2.7	4.1	12.6	41.7	86.2	141.7	152.7
South Carolina-----	1949-51	14.2	-	*0.4	*1.3	*1.9	*3.0	9.8	34.0	56.9	75.7	129.9	*188.0
	1959-61	16.0	-	-	*0.2	*1.2	*1.3	8.0	20.0	67.7	91.8	146.9	148.8
Georgia-----	1949-51	14.0	*1.2	*0.3	*1.8	*1.4	*3.1	8.6	23.5	50.5	73.1	121.2	*127.0
	1959-61	13.6	-	*0.4	*0.4	*1.1	*2.4	6.3	17.3	44.7	61.3	118.8	149.4
Florida-----	1949-51	15.1	*1.8	*1.3	*1.6	*2.0	*1.5	7.8	16.8	40.7	70.0	122.5	*164.0
	1959-61	15.0	-	*0.3	*0.6	*1.1	*1.4	4.3	14.2	37.1	59.8	114.0	137.4

Table 4. Average annual death rates per 100,000 population for diabetes, by color, sex, geographic division, State, and age: United States, 1949-51 and 1959-61--Con.

Characteristics	Years	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
Total, female--Con.		Rate per 100,000 population											
East South Central---	1949-51	12.1	-	*0.5	*0.8	1.3	2.5	5.1	14.4	36.6	77.9	120.7	106.5
	1959-61	15.3	*0.7	*0.1	0.5	1.1	2.3	4.0	14.5	37.9	85.3	131.7	129.9
Kentucky-----	1949-51	13.7	-	*0.4	*0.9	*0.8	*2.6	*3.5	12.5	29.9	97.8	135.7	*88.5
	1959-61	17.8	-	-	*0.5	*0.9	*1.8	*2.8	13.1	36.7	108.7	143.1	137.2
Tennessee-----	1949-51	10.8	-	*0.7	*0.8	*1.8	*1.9	*4.1	11.6	32.0	60.3	121.1	*142.9
	1959-61	12.6	*0.9	-	*0.6	*0.5	*2.4	4.0	12.4	31.4	66.1	108.5	107.3
Alabama-----	1949-51	11.0	-	*0.3	*0.7	1.5	3.0	6.6	14.8	42.1	75.2	99.2	*92.6
	1959-61	15.4	*0.9	-	*0.7	*1.6	*2.9	5.1	16.3	45.3	68.1	146.5	132.1
Mississippi-----	1949-51	13.8	-	*0.9	*0.9	*0.8	*2.6	*6.6	20.9	47.2	92.8	122.2	*100.2
	1959-61	16.0	*1.2	*0.3	*0.3	*1.4	*2.1	*4.2	*17.2	40.1	92.3	132.1	152.2
West South Central---	1949-51	14.2	*0.3	*0.7	*0.7	2.2	2.1	4.0	15.2	39.4	91.6	154.1	161.8
	1959-61	16.9	*0.3	*0.2	0.4	1.1	2.3	3.6	13.3	44.1	96.0	155.7	176.4
Arkansas-----	1949-51	11.5	-	*0.5	*0.8	*4.0	*2.3	*3.1	11.4	35.5	70.0	103.2	*76.1
	1959-61	14.7	-	-	*0.2	*1.6	*2.0	*2.7	12.9	32.3	74.9	96.9	132.6
Louisiana-----	1949-51	17.8	-	*0.4	*0.6	*1.4	*1.9	6.4	24.0	55.1	117.8	200.9	229.3
	1959-61	23.5	-	*0.2	*0.2	*1.7	*2.5	4.4	21.4	69.1	148.2	234.4	297.2
Oklahoma-----	1949-51	14.7	-	*1.0	*0.8	*1.7	*2.8	*4.5	*6.4	33.2	91.3	151.0	*159.6
	1959-61	17.8	-	*0.3	*0.7	*0.6	*2.6	*4.1	9.6	36.2	76.6	147.1	206.4
Texas-----	1949-51	13.3	*0.6	*0.7	*0.6	2.2	1.9	3.2	15.8	37.3	88.2	153.3	160.6
	1959-61	14.8	*0.6	*0.2	*0.4	1.0	2.2	3.3	11.6	40.7	89.8	147.9	136.8
Mountain-----	1949-51	12.9	-	*0.2	*0.3	*2.1	2.7	3.7	9.6	39.2	83.6	155.7	196.3
	1959-61	12.0	-	*0.2	*0.4	*1.0	2.5	3.2	7.8	29.5	80.1	135.1	177.0
Montana-----	1949-51	16.5	-	*1.9	*1.0	*2.5	*2.3	*3.9	*12.4	49.4	74.3	208.8	*225.0
	1959-61	16.7	-	-	*0.5	*1.5	*1.7	*3.9	*6.7	30.8	96.3	199.3	*203.9
Idaho-----	1949-51	15.1	-	-	*0.9	-	*1.1	*4.0	*5.5	45.7	87.2	278.6	*276.5
	1959-61	15.1	-	-	*0.5	*2.8	*1.7	*5.5	*8.7	31.8	107.4	120.3	*228.8
Wyoming-----	1949-51	19.2	-	-	-	-	*7.2	*2.2	*2.6	*7.2	*54.7	*290.7	*641.0
	1959-61	13.7	-	-	-	-	-	*4.7	*4.7	*5.8	*27.9	*180.7	*333.8
Colorado-----	1949-51	12.5	-	-	-	*1.0	*3.8	*2.8	*7.1	30.8	70.0	115.2	*149.8
	1959-61	11.1	-	-	*0.2	*0.8	*3.1	*4.3	7.6	21.2	64.2	93.7	124.6
New Mexico-----	1949-51	7.8	*	-	-	*0.6	*0.9	*5.9	*12.0	*39.2	*47.1	*96.3	*183.4
	1959-61	9.5	-	*0.6	*0.9	*0.5	*2.5	*1.1	*10.0	33.6	74.7	165.3	*192.7
Arizona-----	1949-51	10.3	-	-	-	*2.6	*4.2	*3.8	17.5	*33.7	73.4	95.3	*98.7
	1959-61	10.8	-	-	*0.2	*0.7	*1.6	*2.7	*8.8	36.6	75.5	130.8	131.1
Utah-----	1949-51	14.4	-	-	*0.7	*0.9	*1.9	*3.5	*8.0	47.2	130.7	168.3	*223.0
	1959-61	12.3	-	*0.7	*0.7	*1.4	*3.6	*1.3	*6.5	26.9	92.6	162.1	*244.8
Nevada-----	1949-51	*11.3	-	-	-	*10.1	*3.6	*4.0	-	*18.2	*107.9	*129.1	-
	1959-61	10.6	-	-	-	-	*1.7	*3.1	*4.0	*44.4	*71.0	*157.6	*239.2
Pacific-----	1949-51	12.1	*0.3	*0.2	*0.6	1.1	1.9	2.4	6.3	26.4	71.4	121.3	134.5
	1959-61	12.0	*0.4	*0.1	0.4	1.0	2.1	2.5	7.9	25.1	64.1	115.2	135.9
Washington-----	1949-51	17.4	-	*1.0	*0.6	*1.9	*2.9	*2.4	*5.9	36.2	111.5	170.9	290.3
	1959-61	16.9	*1.1	*0.3	*0.2	*0.9	*2.7	*1.5	7.3	31.6	85.3	183.9	219.0
Oregon-----	1949-51	13.7	-	-	0.4	*1.0	*2.1	*1.4	*7.6	30.9	76.2	182.2	*85.9
	1959-61	14.4	-	-	*0.6	*0.3	*1.3	*3.1	7.9	27.2	75.8	121.4	174.8
California-----	1949-51	10.8	*0.5	*0.1	*0.6	*0.9	1.6	2.5	*6.2	23.7	62.2	102.8	109.1
	1959-61	10.8	*0.4	*0.1	*0.4	1.1	2.2	2.6	7.7	22.7	56.8	98.3	115.0
Alaska-----	1949-51	---	---	---	---	---	---	---	---	---	---	---	---
	1959-61	*2.4	---	---	*1.5	*2.4	---	*4.8	---	*9.6	*23.4	*65.7	---
Hawaii-----	1949-51	---	---	---	---	---	---	---	---	---	---	---	---
	1959-61	15.4	-	*1.1	-	*0.8	*0.7	*2.3	*20.7	68.3	172.2	282.7	*191.6
White, both sexes													
United States--	1949-51	16.6	0.6	0.4	0.5	1.0	2.0	3.3	10.6	41.7	103.4	172.2	160.7
	1959-61	16.2	0.3	0.2	0.4	0.8	2.4	3.7	9.5	33.1	89.5	163.8	179.6
New England-----	1949-51	22.0	*0.6	*0.3	*0.2	*0.7	2.5	3.5	12.4	50.3	121.1	198.1	181.5
	1959-61	19.6	*0.8	*0.1	0.4	0.6	2.5	4.3	10.0	36.0	100.1	182.5	184.3
Maine-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	17.4	-	-	*0.7	*0.8	*2.9	*2.5	9.8	30.1	89.9	147.4	189.7
New Hampshire-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	21.8	*2.5	-	*0.3	*0.4	*1.4	*4.7	12.5	43.7	100.9	207.5	167.5
Vermont-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	16.7	-	-	-	*0.6	*2.3	*4.3	*7.7	28.4	81.8	140.1	230.1
Massachusetts-----	1949-51	22.4	*1.2	*0.3	*0.1	*0.4	2.2	3.4	13.0	51.3	119.0	197.4	183.1
	1959-61	19.0	*1.2	*0.2	*0.5	*0.6	2.8	4.1	9.6	33.1	90.4	176.7	179.7
Rhode Island-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	27.8	-	-	*0.2	-	*2.3	6.0	12.3	50.3	161.5	268.3	184.9
Connecticut-----	1949-51	19.5	-	-	*0.4	*0.8	*2.1	3.7	10.1	47.8	115.4	188.5	167.3
	1959-61	18.8	-	-	*0.1	*0.6	2.2	4.9	9.9	38.7	106.8	182.9	188.4
Middle Atlantic-----	1949-51	21.0	*0.8	*0.4	0.4	0.9	1.8	3.5	12.0	54.8	127.9	201.5	149.2
	1959-61	20.7	*0.6	0.3	0.3	0.7	2.3	3.7	10.7	40.6	110.8	196.4	190.2
New York-----	1949-51	19.7	*0.6	*0.8	*0.4	0.8	1.8	2.8	10.7	50.3	117.3	187.1	130.4
	1959-61	18.4	*0.5	*0.3	0.3	0.7	2.2	3.5	9.1	34.1	95.1	173.4	171.7
New Jersey-----	1949-51	20.9	*0.6	*0.1	*0.2	*0.5	1.6	3.3	12.1	55.6	129.6	213.8	156.7
	1959-61	20.9	*0.6	*0.3	*0.3	*0.8	2.0	3.4	10.9	43.1	122.5	209.5	207.8
Pennsylvania-----	1949-51	23.0	*1.1	*0.1	*0.5	1.1	2.0	4.5	14.1	61.5	142.7	216.0	172.5
	1959-61	23.9	*0.8	*0.5	*0.2	0.8	2.6	4.2	13.0	49.8	129.1	222.9	207.9

See footnote at end of table.

Table 4. Average annual death rates per 100,000 population for diabetes, by color, sex, geographic division, State, and age: United States, 1949-51 and 1959-61--Con.

Characteristics	Years	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
<u>White, both sexes--Con.</u>		Rate per 100,000 population											
East North Central---	1949-51	20.9	*0.8	*0.4	0.7	1.2	2.2	3.8	14.0	50.9	127.8	195.0	171.6
	1959-61	19.8	*0.1	*0.2	0.4	0.8	2.3	4.2	11.5	41.1	112.6	198.9	214.1
Ohio-----	1949-51	23.5	*1.3	*0.2	*0.6	1.0	2.4	4.2	15.5	55.3	143.9	211.0	181.5
	1959-61	22.5	-	*0.2	0.4	0.7	2.3	4.7	12.8	47.6	132.3	224.9	234.3
Indiana-----	1949-51	17.9	*0.6	*0.3	*0.7	*1.2	*1.6	3.0	11.3	43.8	107.9	155.9	160.7
	1959-61	19.4	-	-	*0.1	*0.9	1.9	2.7	11.8	42.0	107.7	203.5	189.3
Illinois-----	1949-51	19.6	*0.3	*0.5	*0.8	1.2	1.9	3.8	11.9	47.3	111.4	185.9	153.1
	1959-61	15.4	*0.2	*0.3	0.6	0.7	2.0	3.8	9.6	29.2	81.7	138.2	157.0
Michigan-----	1949-51	22.2	*0.4	*0.6	*0.7	1.2	2.3	3.6	16.4	60.5	159.4	225.8	226.3
	1959-61	22.8	*0.4	*0.2	*0.3	0.8	2.4	4.7	12.8	51.5	146.6	265.9	279.6
Wisconsin-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	19.0	-	*0.2	*0.5	*1.2	3.7	4.7	11.1	37.8	96.0	176.1	211.8
West North Central---	1949-51	17.5	*1.2	*0.3	0.6	0.9	2.4	3.8	8.8	34.6	94.7	173.5	162.9
	1959-61	16.9	*0.2	*0.3	0.5	0.9	3.3	4.0	8.6	27.8	78.3	156.0	178.8
Minnesota-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	15.9	*0.8	*0.2	*0.5	*1.0	3.3	5.3	9.7	27.7	79.3	147.9	205.8
Iowa-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	17.2	-	*0.4	*0.5	*0.9	2.9	3.6	10.3	25.7	72.3	154.9	197.5
Missouri-----	1949-51	17.9	*1.5	*0.9	*0.6	*0.9	*1.8	3.3	9.3	39.5	93.9	152.8	105.6
	1959-61	17.4	-	*0.3	*0.6	*1.0	3.4	3.9	7.6	31.0	79.6	138.6	143.9
North Dakota-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	14.7	-	*0.5	*0.2	-	*3.7	*4.2	*6.9	24.1	69.3	196.8	234.0
South Dakota-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	14.9	-	-	*0.5	*1.9	*3.1	*4.7	*8.2	18.8	69.3	177.0	*127.2
Nebraska-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	18.9	-	-	*0.2	*1.1	*3.7	*3.6	9.4	26.9	90.1	177.4	161.6
Kansas-----	1949-51	17.0	*1.3	-	*0.3	*0.8	*2.6	*2.9	8.4	33.4	84.5	176.9	163.6
	1959-61	17.2	-	*0.2	*0.7	*0.6	3.2	2.7	6.7	28.5	79.1	173.4	194.6
South Atlantic-----	1949-51	12.1	*0.6	*0.4	0.4	1.2	1.7	3.2	9.5	34.1	84.8	150.7	183.1
	1959-61	12.4	*0.1	*0.3	0.3	0.7	2.2	3.4	8.8	28.5	69.9	137.8	164.2
Delaware-----	1949-51	24.5	-	-	-	*1.3	*1.1	*2.5	*17.2	56.3	161.5	272.3	*162.2
	1959-61	22.1	*3.6	-	-	*1.4	*0.6	*4.7	*14.2	57.6	144.8	262.3	*176.6
Maryland-----	1949-51	18.4	-	*1.2	*0.2	*1.2	*3.3	*3.7	13.7	52.0	127.8	217.5	208.9
	1959-61	17.1	-	*0.3	*0.3	*0.5	2.4	3.3	8.8	43.8	120.4	207.4	226.3
D.C.-----	1949-51	14.0	-	-	-	*0.7	*1.5	*3.0	*9.6	36.6	55.4	181.6	*150.0
	1959-61	14.7	-	-	-	*0.6	*3.8	*6.8	*6.9	19.8	40.0	107.6	*169.0
Virginia-----	1949-51	9.7	-	*0.4	*0.3	*1.3	*1.3	*2.5	8.1	24.2	80.1	122.9	155.4
	1959-61	10.1	-	*0.5	*0.4	*0.3	1.9	3.6	8.1	22.5	63.7	129.1	155.2
West Virginia-----	1949-51	11.3	-	*0.3	*0.5	*1.5	*2.6	*3.7	8.4	34.2	82.1	123.4	*158.0
	1959-61	14.0	-	*0.2	*0.5	*0.9	*2.7	4.1	10.4	31.6	74.6	140.0	126.9
North Carolina-----	1949-51	9.3	*0.8	*0.2	*0.3	*1.5	*1.8	2.5	7.8	29.5	76.6	132.7	193.3
	1959-61	10.8	-	*0.2	*0.2	*0.8	2.3	3.0	8.6	26.6	70.1	139.8	173.8
South Carolina-----	1949-51	12.7	*1.7	*0.8	*0.4	*0.5	*2.3	*4.2	14.8	44.3	104.9	170.7	*285.7
	1959-61	10.6	-	-	*0.2	*0.4	*0.8	3.9	9.2	31.5	75.2	151.9	157.1
Georgia-----	1949-51	11.2	*0.9	-	*0.7	*1.2	*1.6	4.3	9.6	33.7	74.6	157.6	225.1
	1959-61	10.4	-	*0.5	*0.2	*0.9	3.0	3.7	8.9	26.5	58.0	120.7	165.9
Florida-----	1949-51	12.2	*1.2	*0.9	*0.8	*1.0	*1.5	*3.0	6.6	26.0	65.5	124.9	149.9
	1959-61	13.0	-	*0.3	*0.4	*0.8	1.8	2.4	8.3	23.3	54.4	109.7	147.5
East South Central---	1949-51	9.7	*0.5	*0.3	0.6	0.8	2.0	2.6	7.1	24.5	68.5	125.5	109.6
	1959-61	11.7	*0.5	*0.2	0.4	0.6	2.1	2.8	8.5	23.5	69.0	125.4	133.3
Kentucky-----	1949-51	11.3	-	*0.2	*0.6	*1.4	*2.3	3.0	8.0	23.3	83.1	128.4	*91.0
	1959-61	13.9	-	-	*0.4	*0.4	2.1	3.0	10.4	26.0	85.2	131.0	155.8
Tennessee-----	1949-51	8.4	-	*0.4	*0.6	*0.4	*1.4	*2.5	5.6	22.9	51.7	122.9	146.2
	1959-61	10.2	*1.1	-	*0.4	*0.8	1.9	2.2	8.9	22.3	55.4	108.3	118.1
Alabama-----	1949-51	8.8	*1.1	*0.5	*0.6	*1.0	*2.6	*1.7	7.1	25.3	67.9	115.9	*101.5
	1959-61	11.4	*0.7	*0.7	*0.4	*0.8	3.1	3.7	7.1	23.7	66.0	144.1	141.7
Mississippi-----	1949-51	10.7	*2.0	-	*0.9	*0.3	*1.7	*3.7	9.0	29.4	72.4	138.0	*90.1
	1959-61	10.8	-	-	*0.3	*0.4	*0.9	*2.3	6.1	20.3	67.4	121.5	100.5
West South Central---	1949-51	11.3	*0.2	*0.5	0.5	1.3	1.8	2.4	9.2	28.7	79.2	141.2	168.0
	1959-61	13.1	*0.5	*0.2	0.3	0.8	1.9	3.4	8.7	28.0	77.9	148.2	174.2
Arkansas-----	1949-51	8.8	-	*0.7	*0.5	*2.4	*1.7	*2.3	*5.2	22.1	58.0	96.5	*79.5
	1959-61	12.4	-	-	-	*1.2	*1.5	4.0	7.1	20.0	65.8	94.7	146.7
Louisiana-----	1949-51	12.4	-	-	*0.2	*0.4	1.2	1.4	11.3	33.9	102.3	175.9	265.4
	1959-61	15.9	-	-	*0.3	*0.8	*1.2	2.8	9.4	35.9	112.5	219.9	283.1
Oklahoma-----	1949-51	12.9	-	*0.6	*0.7	*1.4	*3.0	4.0	7.6	26.6	75.1	132.0	174.1
	1959-61	15.0	*2.3	*0.2	*0.6	*0.8	*2.5	4.0	8.5	26.1	65.2	138.9	194.9
Texas-----	1949-51	11.1	*0.3	*0.6	*0.6	1.3	1.7	2.3	10.0	29.6	80.3	148.0	162.0
	1959-61	12.0	*0.3	*0.2	*0.3	0.7	2.0	3.4	8.9	28.1	76.2	147.0	145.9
Mountain-----	1949-51	11.1	-	*0.2	*0.3	1.4	2.8	3.0	8.5	27.8	71.2	144.6	183.2
	1959-61	10.8	*0.2	*0.2	*0.3	1.0	2.4	4.2	7.4	24.9	67.3	127.2	177.1
Montana-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	15.3	(1)	(1)	*0.5	*1.2	*2.6	*4.0	*5.1	29.5	80.5	178.1	205.8
Idaho-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	13.4	(1)	(1)	*0.5	*1.8	*2.2	*6.1	*7.4	22.3	84.0	130.6	272.4
Wyoming-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	12.4	-	-	-	*1.5	*3.1	*3.9	*7.5	*25.3	67.3	163.9	*333.6
Colorado-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	9.9	-	*0.2	*0.2	*1.0	3.0	4.0	7.6	20.2	55.7	88.5	126.5

See footnote at end of table.

Table 4. Average annual death rates per 100,000 population for diabetes, by color, sex, geographic division, State, and age: United States, 1949-51 and 1959-61--Con.

Characteristics	Years	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
<u>White, both sexes--Con.</u>		Rate per 100,000 population											
Mountain--Con.													
New Mexico-----	1949-51	6.8	-	-	*0.4	*1.4	*1.0	*3.7	10.5	28.2	49.3	*80.6	*211.3
	1959-61	8.6	-	*0.3	*0.8	*0.5	*2.2	*2.4	10.1	24.7	76.4	135.7	*128.7
Arizona-----	1949-51	8.4	-	-	*0.4	*1.0	*1.9	*2.1	*11.6	26.5	65.0	*89.3	*92.3
	1959-61	8.9	-	*0.3	*0.1	*0.6	*1.1	4.2	6.8	25.6	57.7	114.5	*130.1
Utah-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	10.8	-	*0.3	*0.3	*1.0	*3.9	*2.9	*6.9	25.2	77.3	154.4	239.1
Nevada-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	12.7	*5.5	-	-	*1.0	-	*9.8	*8.8	44.8	55.3	175.4	*179.7
Pacific-----	1949-51	10.9	*0.2	*0.2	0.6	0.9	1.8	2.8	6.0	23.1	62.3	117.1	134.2
	1959-61	10.5	*0.2	*0.2	0.3	0.7	2.4	3.1	6.8	21.9	55.1	106.3	137.8
Washington-----	1949-51	15.3	-	*0.5	*0.8	*1.4	*2.0	*2.7	7.0	28.8	92.1	165.3	263.8
	1959-61	14.9	*0.6	*0.3	*0.4	*0.6	3.3	2.5	8.9	27.6	72.4	157.8	219.6
Oregon-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	12.5	-	*0.5	*0.3	*0.5	*2.2	3.9	7.9	21.9	60.4	117.4	160.7
California-----	1949-51	9.8	*0.2	*0.2	*0.5	0.8	1.8	3.0	5.7	21.7	55.3	100.4	103.4
	1959-61	9.4	*0.2	*0.2	0.3	0.8	2.4	3.1	6.3	20.4	50.2	92.7	115.6
Alaska-----	1949-51	-	-	-	-	-	-	-	-	-	-	-	-
	1959-61	*3.4	-	-	*1.0	-	-	*2.5	-	*22.7	*61.5	*143.5	*179.2
Hawaii-----	1949-51	-	-	-	-	-	-	-	-	-	-	-	-
	1959-61	12.0	-	-	-	-	*1.0	*2.3	*10.0	82.2	150.5	*248.6	*480.3
<u>White, male</u>													
United States--	1949-51	12.9	0.8	0.3	0.4	0.8	2.1	3.8	9.8	31.0	77.5	142.0	150.8
	1959-61	13.5	*0.3	0.2	0.3	0.7	2.8	4.6	10.5	29.5	72.8	143.1	172.4
New England-----													
	1949-51	16.4	*0.6	*0.3	*0.1	*0.6	2.7	4.2	11.2	37.2	90.1	168.3	157.0
	1959-61	15.7	*0.9	*0.1	*0.1	*0.8	2.9	5.4	11.8	33.0	82.8	154.9	154.7
Maine-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	14.4	-	-	*0.3	*1.5	*2.9	*3.4	*10.3	24.6	77.0	133.4	*180.8
New Hampshire-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	19.0	*4.9	-	-	*0.8	*1.9	*6.9	*18.8	35.6	91.6	191.3	*138.6
Vermont-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	11.7	-	-	-	*1.2	*3.1	*8.7	*6.2	*19.6	59.9	*106.8	*118.7
Massachusetts-----	1949-51	16.9	*1.2	*0.3	-	*0.3	*2.6	4.5	13.6	37.6	91.3	167.2	143.9
	1959-61	15.8	*1.2	*0.2	*0.2	*0.7	3.5	5.7	12.4	33.3	76.6	153.4	150.2
Rhode Island-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	20.0	-	-	-	-	*2.7	*4.1	*9.7	40.0	134.7	217.7	*147.3
Connecticut-----	1949-51	13.5	-	-	*0.4	*1.2	*1.3	*3.8	*6.0	34.5	84.6	137.5	*123.8
	1959-61	14.6	-	-	-	*0.9	*2.0	5.3	11.0	34.6	81.6	145.7	166.3
Middle Atlantic-----	1949-51	14.7	*1.2	*0.5	*0.3	0.6	1.8	4.0	11.2	37.1	88.1	143.1	126.4
	1959-61	16.2	*0.3	*0.2	*0.2	0.7	2.7	4.3	11.8	34.0	84.4	162.1	168.4
New York-----	1949-51	14.7	*0.8	*0.8	*0.2	*0.6	2.0	3.1	10.5	37.1	89.1	133.4	116.7
	1959-61	15.4	-	*0.1	*0.3	*0.6	2.7	3.7	10.7	31.0	80.1	148.1	168.2
New Jersey-----	1949-51	14.5	*1.3	*0.3	*0.2	*0.3	*1.8	3.8	11.5	40.5	86.5	145.7	*93.9
	1959-61	15.6	*0.6	*0.3	*0.2	*0.5	2.5	4.4	12.2	32.6	92.1	168.5	163.5
Pennsylvania-----	1949-51	15.0	*1.6	*0.1	*0.4	*0.8	1.7	5.4	12.2	35.5	87.4	154.8	154.2
	1959-61	17.5	*0.6	*0.4	*0.1	*0.7	2.8	5.2	13.2	39.6	87.1	178.9	170.6
East North Central---	1949-51	15.9	*1.0	*0.4	0.5	1.1	2.4	4.3	12.1	37.1	91.4	162.7	151.8
	1959-61	16.0	*0.1	*0.3	0.3	0.8	2.6	5.1	12.1	35.8	89.2	166.5	201.9
Ohio-----	1949-51	17.7	*2.5	*0.3	*0.7	*1.2	2.6	4.9	14.2	39.5	101.9	174.3	121.6
	1959-61	18.0	-	*0.1	*0.3	*0.7	2.8	5.8	13.8	40.7	105.7	181.9	238.3
Indiana-----	1949-51	14.0	-	*0.3	*0.5	*0.7	*2.1	*3.3	10.7	34.1	78.8	127.7	177.5
	1959-61	16.0	-	-	*0.1	*0.9	*1.7	2.7	12.0	36.8	88.2	188.1	182.1
Illinois-----	1949-51	14.6	-	*0.5	*0.4	*1.1	2.4	4.4	8.7	33.8	80.8	151.5	136.1
	1959-61	12.2	*0.3	*0.2	*0.6	*0.8	2.1	4.7	10.5	26.3	61.1	110.8	141.6
Michigan-----	1949-51	17.0	*0.8	*0.6	*0.4	*0.7	2.4	4.0	14.5	41.4	114.7	194.8	223.0
	1959-61	18.7	-	*0.1	*0.1	*0.5	2.6	5.7	12.5	44.3	119.4	226.4	255.4
Wisconsin-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	15.5	-	-	*0.3	*1.4	3.9	5.7	12.0	33.1	72.6	145.4	198.4
West North Central---	1949-51	14.5	*1.7	*0.2	*0.5	*0.8	2.6	4.7	7.6	26.5	76.3	149.7	176.6
	1959-61	15.2	*0.4	*0.2	*0.4	1.1	4.5	5.4	10.3	26.6	65.2	147.6	189.4
Minnesota-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	14.3	*1.6	*0.2	*0.5	*1.4	4.4	7.2	13.3	25.3	61.4	131.8	211.3
Iowa-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	15.6	-	*0.3	-	*1.0	*3.7	5.3	11.4	24.3	63.5	151.9	219.3
Missouri-----	1949-51	14.2	*1.4	*0.3	*0.2	*1.0	*1.8	4.0	7.5	30.3	69.9	138.1	123.2
	1959-61	15.3	-	*0.4	*0.5	*1.3	4.7	5.0	9.5	30.7	64.6	130.7	144.4
North Dakota-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	13.6	-	-	*0.5	-	*4.6	*5.4	*9.5	*20.0	55.3	185.1	*207.8
South Dakota-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	14.7	-	-	*0.5	*2.3	*3.5	*7.6	*10.5	22.3	58.8	170.0	*131.2
Nebraska-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	17.2	-	-	*0.5	*1.1	*4.9	*4.8	10.6	26.3	82.5	158.4	180.3
Kansas-----	1949-51	15.5	*2.6	-	-	*0.4	*1.8	*3.7	9.7	24.2	75.4	180.4	228.2
	1959-61	15.2	-	-	*0.3	*0.5	5.5	*2.8	*5.6	27.3	67.4	173.0	219.8
South Atlantic-----	1949-51	9.8	*0.6	*0.4	*0.2	0.8	1.7	3.5	9.2	29.2	67.5	127.4	192.7
	1959-61	11.2	-	*0.4	*0.3	0.5	2.9	4.2	10.4	27.7	63.2	126.4	169.7
Delaware-----	1949-51	15.6	-	-	-	-	-	-	*12.6	*40.7	*76.0	*234.1	*303.6
	1959-61	16.7	-	-	-	-	-	-	*3.6	*17.4	98.5	219.0	*183.9
Maryland-----	1949-51	13.2	-	*1.1	*0.3	*0.7	*1.5	*4.8	12.9	39.1	100.4	129.2	*206.4
	1959-61	13.0	-	*0.6	*0.4	*0.2	*2.3	3.5	8.5	35.6	96.0	176.1	291.5

See footnote at end of table.

Table 4. Average annual death rates per 100,000 population for diabetes, by color, sex, geographic division, State, and age: United States, 1949-51 and 1959-61--Con.

Characteristics	Years	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
Rate per 100,000 population													
White, male--Con.													
South Atlantic--Con.													
D.C.-----	1949-51	13.2	-	-	-	-	*1.1	*2.6	*16.5	41.4	*56.9	*140.8	*321.0
	1959-61	16.2	-	-	-	-	*5.6	*10.1	*13.3	*28.7	*36.2	157.4	*157.6
Virginia-----	1949-51	7.3	-	*0.4	*0.5	*1.1	*1.6	*3.5	8.5	19.6	54.4	89.9	*118.1
	1959-61	8.6	-	*0.5	*0.2	*0.3	*2.9	4.5	8.9	21.0	56.0	111.1	160.5
West Virginia----	1949-51	7.5	-	*0.5	*0.5	*1.7	*1.4	*3.7	*6.4	20.6	44.3	82.9	*153.1
	1959-61	11.7	-	*0.4	*0.5	*0.5	*5.1	*5.2	12.1	23.9	50.7	125.0	*110.7
North Carolina-----	1949-51	8.3	*1.5	-	*0.2	*0.8	*1.9	*2.5	7.8	33.5	63.0	118.2	*246.2
	1959-61	10.5	-	*0.5	*0.1	*1.0	2.9	4.5	12.3	29.3	65.5	133.2	216.7
South Carolina-----	1949-51	11.7	*3.3	*0.8	-	-	*2.3	*4.5	*11.7	41.8	114.6	176.9	*294.8
	1959-61	9.3	-	-	*0.2	*0.5	*0.9	*3.8	11.4	34.1	72.4	140.6	*99.4
Georgia-----	1949-51	10.7	-	-	-	*1.0	*2.1	*4.8	9.4	30.5	74.0	185.3	*309.8
	1959-61	10.2	-	*0.5	*0.1	*0.6	4.2	4.8	11.3	27.5	64.0	123.5	162.3
Florida-----	1949-51	10.6	-	*0.6	*0.3	*0.7	*1.8	*2.3	*6.3	21.3	55.9	126.8	*107.6
	1959-61	13.0	-	*0.2	*0.4	*0.7	*2.6	3.4	8.7	24.0	56.0	104.0	143.4
East South Central---	1949-51	8.9	*1.0	*0.2	*0.5	*0.8	2.0	2.9	7.2	22.3	63.1	118.7	103.5
	1959-61	10.3	*0.3	*0.3	*0.2	*0.6	2.4	3.5	9.5	21.0	57.0	121.0	151.6
Kentucky-----	1949-51	10.1	-	-	*0.4	*2.0	*2.5	*2.9	8.0	20.4	73.2	120.4	*94.3
	1959-61	11.3	-	-	*0.2	*0.2	*2.8	4.1	10.7	18.9	62.4	120.6	186.1
Tennessee-----	1949-51	7.6	-	-	*0.4	-	*1.2	*3.5	*5.9	21.8	46.6	115.2	*133.5
	1959-61	9.6	*1.1	-	*0.1	*1.4	*1.6	*2.8	10.8	23.0	48.7	109.2	126.7
Alabama-----	1949-51	8.7	*2.1	*1.0	*0.7	*0.6	*2.9	*1.4	*6.4	23.6	76.7	117.1	*71.5
	1959-61	10.6	-	*1.3	*0.4	*0.4	*4.1	4.5	7.2	22.0	63.0	141.8	*167.9
Mississippi-----	1949-51	9.1	*3.9	-	*0.9	-	*1.2	*4.3	*9.8	26.0	54.2	124.4	*107.3
	1959-61	9.2	-	-	*0.3	*0.3	*0.4	*2.2	*8.3	19.8	53.3	115.9	*98.1
West South Central---	1949-51	9.4	-	*0.4	*0.4	*0.7	1.9	3.0	8.9	24.0	63.2	120.7	156.9
	1959-61	11.3	*0.6	*0.2	*0.2	0.7	2.0	4.5	9.9	25.1	68.5	135.6	154.9
Arkansas-----	1949-51	7.3	-	*0.7	-	-	*1.3	*2.0	*4.0	*5.2	*14.6	43.9	85.3
	1959-61	12.1	-	-	-	-	*1.4	*2.2	*7.1	*7.2	21.2	59.3	*137.5
Louisiana-----	1949-51	8.4	-	-	-	-	*1.8	*0.8	10.2	24.0	67.0	125.0	*186.6
	1959-61	12.4	-	-	*0.3	*0.2	*1.1	*3.4	9.2	27.2	101.2	189.1	*183.0
Oklahoma-----	1949-51	11.5	-	-	*0.5	*1.0	*3.1	*4.8	10.8	24.2	59.1	114.2	*184.2
	1959-61	13.3	*4.6	-	*0.3	*0.9	*2.4	*4.9	11.3	23.5	59.5	125.7	168.1
Texas-----	1949-51	9.5	-	*0.5	*0.6	*0.6	*1.7	2.9	8.9	26.2	69.2	132.6	157.4
	1959-61	10.5	-	*0.2	*0.2	*0.7	2.0	4.2	10.2	25.9	65.8	138.5	146.9
Mountain-----	1949-51	9.3	-	*0.2	*0.3	*0.7	3.0	*2.8	9.2	17.9	58.9	130.8	157.0
	1959-61	9.6	*0.4	*0.2	*0.2	*0.9	2.4	5.3	7.7	22.7	55.6	114.6	179.5
Montana-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	14.3	-	-	*0.5	*0.8	*3.4	*4.7	*5.3	30.3	68.8	154.9	*223.6
Idaho-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	11.7	-	-	*0.4	*0.7	*2.7	*6.5	*6.2	*15.5	61.8	139.8	*320.3
Wyoming-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	11.7	-	-	*3.1	*1.5	*4.6	*10.8	*25.0	*50.8	*145.0	*384.4	(¹)
Colorado-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	8.6	-	*0.4	*0.2	*1.1	*2.7	*4.2	7.4	19.2	47.6	79.9	*134.5
New Mexico-----	1949-51	6.2	-	-	*0.8	-	*1.0	*2.4	*11.9	*19.2	*53.1	*71.8	214.3
	1959-61	7.4	-	-	*0.6	*0.5	*2.2	*3.5	*11.2	*17.7	76.7	*96.6	*28.7
Arizona-----	1949-51	6.2	-	-	*0.8	-	-	*1.0	*8.5	*19.4	*50.9	*72.2	*64.4
	1959-61	7.3	-	*0.6	-	*0.4	*0.9	*5.9	*5.8	20.5	45.7	87.6	*131.1
Utah-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	9.2	-	(¹)	(¹)	*0.5	*4.2	*4.5	*8.0	24.3	59.4	142.7	*227.6
Nevada-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	14.7	*11.0	-	-	*1.9	-	*16.2	*12.9	*51.5	*39.8	*187.4	*93.4
Pacific-----	1949-51	9.4	-	*0.2	*0.5	*0.9	1.6	3.4	6.1	20.0	52.6	111.5	135.0
	1959-61	9.0	-	*0.3	*0.2	*0.5	2.6	3.8	6.9	20.7	47.5	98.5	139.5
Washington-----	1949-51	13.2	-	-	*1.1	*0.9	*1.1	*3.3	8.3	22.3	74.3	161.6	228.0
	1959-61	12.7	-	*0.5	*0.6	*0.4	*3.8	*3.4	10.6	24.9	57.9	129.2	225.8
Oregon-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	10.6	-	*0.9	-	*0.6	*3.1	*5.0	7.8	16.8	44.6	113.2	*138.5
California-----	1949-51	8.4	-	*0.2	*0.3	*0.8	1.8	3.6	5.7	19.8	47.4	96.0	98.3
	1959-61	8.2	-	*0.2	*0.2	*0.5	2.5	3.8	6.1	20.0	45.1	88.3	114.6
Alaska-----	1949-51	-	-	-	-	-	-	-	-	-	-	-	-
	1959-61	*4.6	-	-	-	-	-	*2.2	-	*36.0	*77.1	*160.5	*246.9
Hawaii-----	1949-51	-	-	-	-	-	-	-	-	-	-	-	-
	1959-61	8.0	-	-	-	-	-	-	*14.9	*56.4	*124.8	*128.7	*763.4
White, female													
United States--													
	1949-51	20.4	*0.4	0.4	0.7	1.2	2.0	2.8	11.5	52.4	127.5	197.6	167.5
	1959-61	18.9	0.4	0.3	0.5	0.8	2.0	2.9	8.6	36.4	104.0	179.7	184.2
New England-----													
	1949-51	27.3	*0.6	*0.4	*0.3	*0.7	2.3	2.9	13.5	62.6	147.0	220.1	195.7
	1959-61	23.3	*0.6	*0.2	*0.6	*0.3	2.2	3.3	8.4	38.6	114.0	201.4	200.3
Maine-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	20.2	-	-	*1.1	-	*2.9	*1.7	*9.3	35.2	101.2	158.3	195.2
New Hampshire-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	24.6	-	-	*0.6	-	*0.9	*2.5	*6.5	51.0	108.8	219.2	183.2

See footnote at end of table.

Table 4. Average annual death rates per 100,000 population for diabetes, by color, sex, geographic division, State, and age: United States, 1949-51 and 1959-61--Con.

Characteristics	Years	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
<u>White, female--Con.</u>		Rate per 100,000 population											
New England--Con.													
Vermont-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	21.6	-	-	-	-	-	*1.5	(¹)	*9.2	36.6	100.0	163.6
Massachusetts-----	1949-51	27.7	*1.2	*0.3	*0.2	*0.5	*1.9	*2.4	12.4	63.8	140.9	218.6	*290.7
	1959-61	22.1	*1.3	*0.3	*0.8	*0.5	2.1	2.6	7.1	33.0	101.1	191.9	204.3
Rhode Island-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	35.2	-	-	*0.5	-	*1.9	*7.7	14.6	59.2	182.8	301.9	205.9
Connecticut-----	1949-51	25.3	-	-	*0.4	*0.4	*2.9	*3.7	14.1	61.0	142.6	227.2	193.1
	1959-61	22.9	-	-	*0.3	*0.2	*2.3	4.5	8.8	42.5	128.0	309.8	200.9
Middle Atlantic-----	1949-51	27.1	*0.4	*0.4	0.6	1.1	1.8	2.9	12.8	72.5	163.6	247.1	163.2
	1959-61	25.0	*1.0	*0.5	0.4	0.8	1.9	3.2	9.7	46.7	133.2	221.8	202.8
New York-----	1949-51	24.4	*0.4	*0.8	*0.6	*1.0	1.6	2.6	10.8	63.4	142.1	228.1	138.8
	1959-61	21.2	*1.1	*0.4	*0.4	0.7	1.6	3.3	7.7	37.0	107.8	192.1	173.7
New Jersey-----	1949-51	27.3	-	-	*0.3	*0.7	*1.5	2.8	12.7	70.5	167.7	264.5	193.8
	1959-61	26.0	*0.6	*0.3	*0.4	*1.0	*1.5	2.5	9.6	52.9	147.8	238.8	231.9
Pennsylvania-----	1949-51	30.9	*0.6	*0.1	*0.7	1.4	2.3	3.6	16.0	87.4	193.6	266.1	183.9
	1959-61	30.0	*1.0	*0.6	*0.4	*0.9	2.4	3.4	12.8	59.2	165.2	256.3	230.4
East North Central---	1949-51	25.8	*0.5	*0.3	0.9	1.3	2.0	3.3	15.9	65.2	162.6	222.8	185.5
	1959-61	23.5	*0.2	*0.3	0.5	0.8	2.1	3.4	11.0	46.2	133.4	224.0	221.9
Ohio-----	1949-51	29.2	-	-	*0.5	*0.9	2.2	3.6	16.8	71.3	183.0	241.6	221.6
	1959-61	26.8	-	*0.2	*0.5	*0.7	1.8	3.6	11.8	54.2	155.2	257.5	246.5
Indiana-----	1949-51	21.8	*1.3	*0.3	*1.0	*1.6	*1.2	*2.6	11.8	53.4	135.1	181.1	148.5
	1959-61	22.7	-	-	*0.2	*0.9	*2.0	2.7	11.6	46.9	124.4	215.4	194.0
Illinois-----	1949-51	24.5	*0.7	*0.5	*1.2	*1.4	*1.5	3.3	15.1	60.9	140.4	214.2	164.6
	1959-61	18.4	-	*0.4	*0.5	*0.6	1.9	3.0	8.8	32.1	99.5	159.0	166.4
Michigan-----	1949-51	27.5	-	*0.6	*1.1	*1.6	2.2	3.2	18.3	81.8	204.1	253.3	228.8
	1959-61	26.8	*0.8	*0.3	*0.6	*1.2	2.2	3.8	13.1	58.8	172.3	297.5	295.4
Wisconsin-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	22.5	-	*0.4	*0.7	*1.1	3.5	3.7	10.2	42.5	117.7	201.5	221.1
West North Central---	1949-51	20.5	*0.7	*0.4	*0.7	*0.9	2.2	3.0	10.0	43.0	112.7	195.5	152.1
	1959-61	18.6	-	*0.3	0.6	0.8	2.1	2.6	7.0	28.9	90.0	162.8	171.5
Minnesota-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	17.6	-	*0.2	*0.6	*0.6	*2.2	3.4	6.2	30.0	96.2	161.6	201.9
Iowa-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	18.8	-	*0.6	*1.0	*0.9	*2.1	*2.0	9.3	26.9	80.2	157.2	183.3
Missouri-----	1949-51	21.4	*1.5	*1.4	*1.1	*0.8	*1.8	*2.7	11.0	48.3	115.8	165.6	92.5
	1959-61	19.3	-	*0.2	*0.6	*0.8	*2.1	2.8	5.8	31.3	92.2	144.6	143.5
North Dakota-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	16.0	-	*1.1	-	-	*2.8	*2.9	*4.1	28.6	84.1	209.0	*276.5
South Dakota-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	15.1	-	-	*0.5	*1.5	*2.7	*1.8	*5.9	*15.1	79.9	183.7	*123.9
Nebraska-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	20.5	-	-	-	*1.1	*2.4	*2.4	*8.2	27.4	97.0	193.1	148.5
Kansas-----	1949-51	18.6	-	-	*0.7	*1.1	*3.3	*2.0	*7.2	42.4	93.2	173.7	*112.2
	1959-61	19.2	-	*0.4	*1.0	*0.7	*1.0	*2.5	7.8	29.7	89.3	173.8	177.2
South Atlantic-----	1949-51	14.3	*0.6	*0.5	*0.6	1.6	1.6	2.9	9.9	38.8	100.1	170.2	176.5
	1959-61	13.7	0.2	*0.2	0.4	0.8	1.4	2.5	7.3	29.2	75.7	146.5	160.6
Delaware-----	1949-51	33.1	-	-	-	*2.6	*2.1	*5.0	*21.7	*71.6	233.9	303.8	*67.7
	1959-61	27.5	*7.2	-	-	*2.7	*1.2	*5.9	*11.1	59.7	183.0	293.1	*172.0
Maryland-----	1949-51	23.6	-	*1.2	-	*1.8	*0.9	*1.7	14.4	64.5	149.8	281.7	*210.3
	1959-61	21.1	-	-	*0.3	*0.8	*2.5	*3.2	9.1	51.5	139.8	227.4	192.5
D.C.-----	1949-51	14.7	-	-	-	*1.4	*1.9	*3.3	*3.8	*32.6	*54.3	203.7	*72.6
	1959-61	13.4	-	-	-	*1.2	*1.6	*4.2	*2.2	*13.2	42.6	80.9	*173.5
Virginia-----	1949-51	12.3	-	*0.4	*0.2	*1.5	*1.1	*1.4	7.7	28.5	102.7	150.2	*180.3
	1959-61	11.6	-	*0.5	*0.5	*0.4	*0.9	*2.7	7.3	23.9	70.0	141.8	152.0
West Virginia-----	1949-51	15.1	-	-	*0.5	*1.3	*3.8	*3.7	*10.5	48.6	121.7	165.1	*162.1
	1959-61	16.1	-	-	*0.5	*1.3	*0.6	*3.1	8.8	39.0	97.5	153.9	139.9
North Carolina-----	1949-51	10.3	-	*0.4	*2.3	*0.8	*2.4	*2.4	7.9	25.8	88.8	144.9	*156.9
	1959-61	11.1	-	-	*0.4	*0.6	*1.8	*1.6	5.0	24.3	73.8	144.7	147.2
South Carolina-----	1949-51	13.6	-	*0.8	*0.8	*0.9	*2.3	*3.9	17.7	46.7	96.7	166.0	*280.3
	1959-61	11.9	-	-	*0.2	*0.3	*0.6	*4.0	*7.1	29.3	77.4	159.3	*187.4
Georgia-----	1949-51	11.6	*1.9	-	*1.4	*1.3	*1.0	*3.8	9.8	36.7	75.1	134.7	*173.7
	1959-61	10.6	-	*0.6	*0.2	*1.1	*1.9	*2.7	6.7	25.7	53.4	118.8	168.0
Florida-----	1949-51	13.7	*2.5	*1.2	*1.3	*1.4	*1.1	*3.6	*6.9	30.3	74.7	123.0	*186.5
	1959-61	13.1	-	*0.4	*0.4	*0.9	*1.0	*1.4	7.9	22.7	52.9	115.0	150.7
East South Central---	1949-51	10.5	-	*0.4	*0.7	0.9	2.0	2.4	7.1	26.5	73.6	131.6	114.1
	1959-61	13.1	*0.7	-	*0.5	*0.6	1.8	2.2	7.5	25.7	79.4	129.0	120.8
Kentucky-----	1949-51	12.4	-	*0.4	*0.8	*0.7	*2.0	*3.2	7.9	26.2	92.5	135.8	*88.5
	1959-61	16.5	-	-	*0.6	*0.7	*1.3	*1.9	10.0	32.7	105.8	139.7	134.0
Tennessee-----	1949-51	9.1	-	*0.8	*0.8	*0.9	*1.6	*1.6	*5.3	23.9	56.4	129.8	*155.7
	1959-61	10.8	*1.1	-	*0.7	*0.3	*2.2	*1.6	7.1	21.6	61.1	107.5	112.3
Alabama-----	1949-51	8.8	-	-	*0.5	*1.4	*2.4	*2.7	*7.1	27.0	59.6	114.8	*123.8
	1959-61	12.3	*1.4	-	*0.4	*1.2	*2.2	*0.3	7.0	25.3	68.5	146.0	124.8
Mississippi-----	1949-51	12.3	-	-	*0.9	*0.5	*2.3	*3.0	*8.1	32.7	89.7	150.5	*77.7
	1959-61	12.4	-	-	*0.3	*0.4	*1.3	*2.5	*4.0	20.8	79.8	125.8	*102.1
West South Central---	1949-51	13.2	*0.4	*0.7	*0.7	2.0	1.7	1.9	9.4	33.4	94.4	159.8	176.8
	1959-61	14.8	*0.4	*0.2	*0.4	0.9	1.9	2.5	7.5	30.8	86.1	158.0	187.4
Arkansas-----	1949-51	10.4	-	*0.7	*1.1	*3.5	*1.4	*0.5	*5.2	29.9	72.7	108.1	*85.0
	1959-61	12.7	-	-	-	*1.0	*0.8	*1.1	*7.0	18.9	72.1	97.8	154.3
Louisiana-----	1949-51	16.4	-	-	*0.3	*0.7	*0.7	*1.9	12.4	43.4	133.6	216.3	*317.7
	1959-61	19.4	-	-	*0.3	*1.3	*1.3	*2.2	9.6	44.1	121.8	242.1	344.9
Oklahoma-----	1949-51	14.2	-	*1.2	*0.9	*1.9	*3.0	*3.2	*4.4	29.0	90.8	150.0	*164.4
	1959-61	16.6	-	*0.4	*0.8	*0.7	*2.6	*3.2	5.8	28.5	70.1	149.7	215.1
Texas-----	1949-51	12.7	*0.7	*0.8	*0.6	2.0	*1.7	*1.8	11.2	33.1	90.5	161.5	165.5
	1959-61	13.5	*0.7	*0.2	*0.4	*0.8	2.0	2.6	7.6	30.3	85.2	153.3	145.3

Table 4. Average annual death rates per 100,000 population for diabetes, by color, sex, geographic division, State, and age: United States, 1949-51 and 1959-61--Con.

Characteristics	Years	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
		Rate per 100,000 population											
<u>White, female--Con.</u>													
Mountain-----	1949-51	12.9	-	*0.2	*0.3	*2.1	2.6	3.2	7.8	39.0	84.7	158.4	206.9
	1959-61	12.0	-	*0.2	*0.4	*1.1	2.5	3.0	7.1	27.2	78.8	138.4	175.3
Montana-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	16.4	-	-	*0.5	*1.5	*1.7	*3.2	*4.9	28.8	92.9	203.0	*190.7
Idaho-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	15.1	-	-	*0.5	*2.9	*1.7	*5.6	*8.7	30.8	106.8	121.4	*231.9
Wyoming-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	13.1	-	-	-	-	*4.8	*3.2	*3.9	*25.5	85.9	*182.7	*289.0
Colorado-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	11.2	-	-	*0.2	*0.9	*3.2	*3.8	7.7	21.1	62.9	95.4	121.3
New Mexico-----	1949-51	7.5	-	-	-	*2.9	*1.0	*5.0	*9.1	*38.5	*45.1	*90.1	*208.3
	1959-61	9.8	-	*0.7	*1.0	*0.5	*2.2	*1.2	*9.0	31.7	76.2	172.8	*210.1
Arizona-----	1949-51	10.6	-	-	-	*2.1	*3.8	*3.1	*14.8	*34.3	80.1	*107.0	*117.8
	1959-61	10.5	-	-	*0.3	*0.8	*1.3	*2.5	*7.9	30.5	69.8	138.5	*129.3
Utah-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	12.3	-	*0.7	*0.7	*1.4	*3.7	*1.3	*5.7	26.2	93.7	163.4	*247.0
Nevada-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	10.5	-	-	-	-	-	*3.3	*4.2	*35.8	*74.7	*163.0	*259.7
Pacific-----	1949-51	12.4	*0.4	*0.1	*0.6	*1.0	2.0	2.2	6.0	26.3	71.3	121.6	133.7
	1959-61	11.9	*0.5	*0.1	0.4	1.0	2.2	2.3	6.8	23.0	61.5	112.3	136.7
Washington-----	1949-51	17.5	-	*1.0	*0.6	*2.0	*3.0	*2.2	*5.6	35.8	111.4	169.0	295.2
	1959-61	17.1	*1.1	-	*0.2	*0.9	*2.8	*1.6	7.2	30.2	85.9	182.9	215.0
Oregon-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	14.5	-	-	*0.6	*0.3	*1.3	*2.8	8.0	27.1	75.5	121.0	176.2
California-----	1949-51	11.1	*0.5	*0.1	*0.7	*0.9	1.8	2.4	5.8	23.6	62.3	103.7	106.5
	1959-61	10.6	*0.4	*0.1	*0.4	1.1	2.2	2.4	6.6	20.7	54.5	95.9	116.2
Alaska-----	1949-51	-	-	-	-	-	-	-	-	-	-	-	-
	1959-61	*1.8	-	-	*2.1	-	-	*2.9	-	-	*34.0	*108.9	-
Hawaii-----	1949-51	-	-	-	-	-	-	-	-	-	-	-	-
	1959-61	17.2	-	-	-	-	*2.2	*5.0	*4.3	*108.7	*173.4	*333.3	*308.6
<u>All other, both sexes</u>													
United States--	1949-51	14.4	*0.2	*0.4	0.7	2.2	3.4	10.8	30.4	61.8	82.8	99.1	90.4
	1949-61	18.0	*0.5	*0.3	0.4	1.4	3.7	10.2	31.0	79.0	115.9	138.3	127.5
New England-----	1949-51	19.6	-	-	-	-	-	*14.2	*21.1	*77.3	*136.4	*245.0	-
	1959-61	19.1	-	-	-	-	*3.0	*9.3	29.5	64.0	155.1	310.2	*267.6
Maine-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	*16.7	-	-	-	-	-	-	-	*149.5	*176.4	*469.5	(1)
New Hampshire-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	*25.8	-	-	-	-	-	-	-	*362.3	-	-	*3,333.3
Vermont-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts-----	1949-51	22.1	-	-	-	-	-	*14.0	*23.1	*95.4	*108.6	*269.0	-
	1959-61	21.5	-	-	-	-	*4.9	*7.8	*24.7	*62.6	129.3	380.6	*275.5
Rhode Island-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	35.3	-	-	-	-	*10.3	*13.6	*114.4	*113.5	*324.4	*177.8	*444.4
Connecticut-----	1949-51	*14.6	-	-	-	-	-	*12.0	*8.4	*76.2	*158.8	*165.3	-
	1959-61	13.5	-	-	-	-	-	*10.8	*23.6	*49.2	*158.9	*211.5	*117.8
Middle Atlantic-----	1949-51	17.6	-	*0.3	*0.3	*1.8	3.7	10.2	34.9	75.1	132.5	153.0	*97.1
	1959-61	20.9	*1.3	*0.3	*0.2	*0.7	4.2	12.2	35.3	84.8	145.5	200.4	164.6
New York-----	1949-51	15.4	-	-	-	*2.7	*3.5	10.5	30.5	66.8	126.6	140.4	*67.7
	1959-61	20.1	-	*0.4	*0.1	*0.5	4.6	13.0	34.0	79.3	158.0	188.0	*178.8
New Jersey-----	1949-51	20.5	-	-	-	*1.9	*4.2	*13.8	33.7	83.5	145.8	*204.9	*259.7
	1959-61	21.0	*4.3	-	*0.3	*0.9	*3.1	10.0	38.5	87.5	159.8	240.6	*123.5
Pennsylvania-----	1949-51	19.3	-	*0.9	*0.9	*0.5	*4.0	*8.0	41.7	81.8	133.0	*140.1	*36.8
	1959-61	22.3	*1.4	*0.4	*0.4	*0.9	*4.1	11.9	35.8	91.9	121.0	195.3	*169.7
East North Central---	1949-51	16.5	-	*0.6	*0.2	*2.6	2.8	9.6	26.8	76.2	121.3	141.1	*126.6
	1959-61	18.7	*0.7	*0.2	*0.2	*1.1	3.8	9.6	29.7	85.5	147.4	174.2	148.2
Ohio-----	1949-51	21.8	-	*2.3	-	*3.1	*3.7	13.8	32.3	90.1	149.2	203.3	*121.2
	1959-61	23.1	-	*0.4	*0.2	*0.7	*4.0	10.1	34.6	105.7	169.3	200.1	*172.2
Indiana-----	1949-51	16.8	-	-	-	*7.5	*1.7	*11.2	*33.0	*58.8	*94.3	*85.8	*95.8
	1959-61	18.9	*3.9	-	*0.5	-	*2.6	*6.6	41.0	73.0	131.8	162.4	*114.3
Illinois-----	1949-51	12.4	-	-	-	*1.0	*1.6	*5.6	18.4	57.4	102.2	*79.1	*183.4
	1959-61	15.1	*1.0	-	*0.1	*1.4	*3.9	8.1	25.1	64.0	119.3	126.7	*141.8
Michigan-----	1949-51	16.5	-	-	*0.7	*2.9	*3.2	*10.6	30.9	97.9	124.4	*219.1	*71.7
	1959-61	20.2	-	*0.4	*0.2	*1.5	*4.0	12.1	28.5	101.9	172.4	222.4	*157.4
Wisconsin-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	10.4	-	-	-	-	*4.3	*9.2	*9.9	*57.4	*140.3	*260.8	-
West North Central---	1949-51	18.3	-	-	*1.2	*2.7	*2.0	*10.8	30.3	60.2	80.3	150.8	*128.7
	1959-61	22.5	*0.4	*0.2	*0.8	*4.4	9.8	36.9	85.5	120.9	168.4	*185.2	*185.2
Minnesota-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	*11.0	-	-	-	-	*5.4	*6.7	*28.4	*55.6	*60.6	*98.2	(1)
Iowa-----	1949-51	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	1959-61	*17.3	-	-	-	-	-	-	*38.5	*31.0	*110.4	*275.9	-
Missouri-----	1949-51	20.2	-	-	*1.0	*3.5	*3.2	*9.7	32.8	73.3	72.0	*180.8	*182.6
	1959-61	23.3	-	-	*0.4	*1.3	*4.6	*10.5	37.7	80.2	129.3	134.1	*177.5

See footnote at end of table.

Table 4. Average annual death rates per 100,000 population for diabetes, by color, sex, geographic division, State, and age: United States, 1949-51 and 1959-61--Con.

Characteristics	Years	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
All other, both sexes—Con.		Rate per 100,000 population											
West North Central—Con.													
North Dakota-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*18.1	-	-	-	-	*21.8	-	-	-	-	*398.0	*472.8
South Dakota-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*23.1	-	-	-	-	-	*13.3	*53.4	*159.5	*105.8	*256.4	*569.8
Nebraska-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	21.9	-	*7.1	-	-	*6.1	*24.2	*55.1	*115.1	*42.7	*158.0	*219.3
Kansas-----	1949-51	15.7	-	-	*4.0	-	-	*10.0	*33.0	*29.2	*65.6	*62.7	*133.0
	1959-61	26.7	-	-	-	-	*2.4	*6.0	*29.7	115.8	117.4	*253.8	*235.6
South Atlantic-----	1949-51	13.6	-	*0.3	1.1	2.3	4.5	13.1	34.5	66.7	65.4	77.6	82.1
	1959-61	17.1	*0.4	*0.2	0.6	1.8	3.8	12.4	32.9	85.8	105.2	108.1	93.9
Delaware-----	1949-51	24.9	-	-	-	-	*7.7	*6.8	*7.4	-	*160.4	*130.6	*156.7
	1959-61	25.3	-	-	*7.4	-	-	-	*4.2	*41.5	*116.1	*195.5	*100.9
Maryland-----	1949-51	14.8	-	-	-	*0.8	*1.5	*8.6	*20.1	99.4	109.8	*78.0	*112.2
	1959-61	18.8	-	*0.6	-	-	*1.3	*2.8	*9.1	39.1	86.3	132.7	170.8
D.C-----	1949-51	13.9	-	-	-	-	-	*11.8	37.7	62.9	*64.5	*137.9	*258.2
	1959-61	11.7	-	-	-	*1.2	*4.1	*8.0	18.4	40.3	93.4	*119.0	*143.4
Virginia-----	1949-51	14.2	-	-	*1.0	-	*2.8	*4.3	11.0	29.8	56.9	91.2	*64.5
	1959-61	17.4	-	-	-	-	*0.5	*2.0	10.3	28.2	75.3	124.7	116.8
West Virginia-----	1949-51	12.6	-	-	*2.2	-	-	*3.2	*6.4	*24.2	*34.6	*82.7	*37.2
	1959-61	29.9	-	-	-	-	-	*8.4	*17.4	*32.4	96.1	113.4	186.0
North Carolina-----	1949-51	10.7	-	*0.4	*0.2	-	*1.8	*5.2	10.0	22.9	54.2	76.2	106.6
	1959-61	17.4	*1.0	*0.3	*0.8	-	*3.0	*4.9	13.7	33.8	82.7	117.7	129.7
South Carolina-----	1949-51	12.9	-	-	*1.4	-	*2.7	*5.6	17.8	49.6	74.4	40.6	*49.7
	1959-61	16.4	*1.3	*0.3	*0.7	-	*1.9	*3.2	13.9	36.8	106.6	94.6	81.7
Georgia-----	1949-51	14.9	-	*0.4	*1.9	-	*2.7	8.2	14.6	42.9	66.1	55.4	*63.8
	1959-61	16.2	-	*0.3	*0.6	-	*1.9	*4.8	13.7	37.4	76.2	74.0	85.7
Florida-----	1949-51	15.0	-	*0.9	*1.4	-	*3.1	*1.5	17.8	41.5	70.9	*35.7	*90.3
	1959-61	18.1	-	*0.3	*0.8	-	*1.8	*3.9	15.0	31.4	113.0	106.4	75.4
East South Central-----	1949-51	13.7	-	*0.9	*0.9	-	2.3	3.5	10.6	27.8	54.1	77.5	75.9
	1959-61	17.9	*0.4	*0.2	*0.5	-	2.2	4.3	10.2	31.6	65.3	92.8	112.4
Kentucky-----	1949-51	24.9	-	-	*1.5	-	*3.2	*5.3	*7.0	45.3	70.7	119.7	*108.4
	1959-61	23.8	-	-	-	-	*2.3	*9.3	*10.5	32.8	67.6	106.7	128.2
Tennessee-----	1949-51	14.4	-	-	*0.5	-	*3.5	*3.2	*10.7	32.8	53.8	70.3	*38.3
	1959-61	17.9	-	-	-	-	*1.2	*2.0	12.8	32.2	66.7	88.9	106.8
Alabama-----	1949-51	12.4	-	*0.5	*0.9	-	*2.4	*3.6	13.2	23.5	53.8	73.1	*54.7
	1959-61	17.7	-	-	*0.7	-	*2.4	*4.0	10.7	31.0	72.1	91.7	114.5
Mississippi-----	1949-51	12.5	-	*1.7	*0.9	-	*1.5	*3.0	8.7	24.1	49.4	74.0	107.0
	1959-61	16.7	*1.1	*0.6	*0.7	-	*2.6	*5.0	7.4	31.3	56.4	92.5	109.0
West South Central-----	1949-51	14.4	*0.7	*0.4	*0.4	-	*2.1	3.6	10.5	31.1	50.6	71.7	98.7
	1959-61	20.4	*0.4	*0.3	*0.3	-	1.6	4.4	8.2	32.4	86.3	117.6	121.9
Arkansas-----	1949-51	12.3	*4.2	*1.1	-	-	*3.7	*5.1	*9.8	*21.2	36.1	63.0	*57.2
	1959-61	15.9	-	-	*0.3	-	*1.8	*5.0	*9.5	27.2	61.7	63.8	70.6
Louisiana-----	1949-51	16.0	-	*0.5	*0.5	-	*1.4	*3.4	13.1	34.3	57.8	86.4	124.0
	1959-61	24.0	-	*0.3	-	-	*1.7	*5.3	7.5	34.4	98.9	164.0	188.7
Oklahoma-----	1949-51	16.7	-	-	-	-	*1.6	-	*12.1	24.1	70.0	*83.6	125.0
	1959-61	23.7	-	-	-	-	-	*1.4	*10.4	44.8	88.4	118.2	*104.7
Texas-----	1949-51	13.5	-	-	*0.5	-	*2.1	*3.8	8.3	34.0	47.1	59.1	90.3
	1959-61	18.2	*0.9	*0.5	*0.6	-	*1.8	*4.1	8.0	30.2	84.8	100.9	88.7
Mountain-----	1949-51	8.9	-	-	-	-	*2.4	*1.5	*13.8	*29.3	*32.7	*48.3	*30.9
	1959-61	10.0	-	*0.7	-	-	-	*3.6	*8.4	*21.3	63.7	85.2	*31.3
Montana-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*20.8	-	-	-	-	*11.4	*14.8	*81.1	*56.6	*221.0	*89.6	*347.2
Idaho-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*13.6	-	-	-	-	-	-	-	*58.5	*154.7	-	*606.1
Wyoming-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*23.3	-	-	-	-	-	*42.8	*66.4	*85.5	*138.9	-	*1,666.7
Colorado-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*7.5	-	-	-	-	-	*9.4	-	*22.5	*98.0	-	*340.1
New Mexico-----	1949-51	*6.9	-	-	-	-	-	*9.5	*27.5	*22.6	*69.4	*78.9	-
	1959-61	*7.5	-	*3.2	-	-	*6.6	*4.7	*13.5	*49.8	*36.9	*138.9	*137.7
Arizona-----	1949-51	*8.4	-	-	-	*5.7	*4.0	*19.1	*20.0	*21.7	*33.6	-	*136.2
	1959-61	9.0	-	-	-	-	*2.0	*5.2	*23.2	*68.3	*88.9	-	*66.0
Utah-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*9.9	-	-	-	-	-	-	*30.4	*156.3	-	-	-
Nevada-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*12.2	-	-	-	-	*9.6	*26.9	*18.4	*118.9	-	-	-
Pacific-----	1949-51	8.0	*2.5	-	-	*1.3	*0.3	*3.2	*11.0	30.9	85.6	*115.3	*115.2
	1959-61	11.3	-	*0.3	-	-	*0.8	*1.5	4.8	17.1	47.1	98.0	*131.5
Washington-----	1949-51	*13.6	*28.9	-	-	-	-	*5.6	*25.8	*41.9	*147.6	*143.7	-
	1959-61	12.1	-	*2.7	-	-	-	-	*7.3	*70.5	*82.9	*245.6	*358.4
Oregon-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*9.1	-	-	-	-	-	*6.7	*18.3	*43.5	*76.5	*66.9	-
California-----	1949-51	7.3	-	-	-	*1.0	*0.4	*3.1	*10.2	31.1	73.4	*109.6	*138.7
	1959-61	10.6	-	-	-	*0.6	*2.0	5.3	17.7	45.4	86.4	174.9	*64.4

See footnote at end of table.

Table 4. Average annual death rates per 100,000 population for diabetes, by color, sex, geographic division, State, and age: United States, 1949-51 and 1959-61--Con.

Characteristics	Years	All ages	Under 1 year ¹	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
<u>All other, both sexes—Con.</u>		Rate per 100,000 population											
<u>Pacific—Con.</u>													
Alaska-----	1949-51	---	---	---	---	---	---	---	---	---	---	---	---
	1959-61	*4.5	---	---	---	*3.6	---	*13.5	*9.7	*18.4	*32.2	*78.4	---
Hawaii-----	1949-51	---	---	---	---	---	---	---	---	---	---	---	---
	1959-61	14.1	---	*0.8	---	*1.1	---	*3.9	17.9	49.2	139.7	203.6	*243.3
<u>All other, male</u>													
United States--	1949-51	10.2	*0.5	*0.3	*0.5	2.0	2.8	7.5	18.0	38.7	63.9	82.3	69.6
	1959-61	13.0	*0.5	*0.3	0.3	1.2	3.6	8.6	21.5	50.7	88.5	106.5	99.9
New England-----	1949-51	16.7	---	---	---	---	---	*9.6	*17.4	*69.7	*117.2	*239.0	---
	1959-61	14.8	---	---	---	---	*1.5	*5.6	*36.6	*51.1	142.5	*168.4	*167.1
Maine-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*9.9	---	---	---	---	---	---	---	---	*385.4	---	---
New Hampshire-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*46.1	---	---	---	---	---	---	---	*606.1	---	---	*4,761.9
Vermont-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	---	---	---	---	---	---	---	---	---	---	---	---
Massachusetts-----	1949-51	*19.9	---	---	---	---	---	*9.4	*22.3	*91.2	*73.7	*330.0	---
	1959-61	16.6	---	---	---	---	---	*3.9	*31.5	*49.7	*139.0	*251.1	---
Rhode Island-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*37.8	---	---	---	---	*20.4	*27.0	*197.8	*115.3	*234.7	---	*952.4
Connecticut-----	1949-51	*9.1	---	---	---	---	---	*12.4	---	*60.5	*110.5	---	---
	1959-61	*7.9	---	---	---	---	---	*4.4	*21.2	*33.2	*113.0	*67.6	---
Middle Atlantic-----	1949-51	12.0	---	---	---	*1.8	*2.9	8.9	21.0	46.0	91.3	*118.4	*114.6
	1959-61	16.2	*0.8	*0.7	*0.2	*0.4	4.0	10.5	26.5	62.0	118.3	158.8	*87.9
New York-----	1949-51	10.9	---	---	---	*1.5	*3.3	*10.0	*16.4	45.1	93.8	*105.5	*101.8
	1959-61	16.3	---	*0.9	---	*0.4	*4.2	10.9	27.4	65.9	136.7	143.7	*60.8
New Jersey-----	1949-51	12.0	---	---	---	*3.8	*5.2	*6.1	*18.2	*42.9	*63.6	*157.9	*343.6
	1959-61	15.1	*4.3	---	*0.6	*1.0	*4.2	*8.5	29.4	53.6	103.8	*217.5	---
Pennsylvania-----	1949-51	13.7	---	---	---	*1.1	*1.0	*8.5	28.6	48.4	102.2	*110.2	---
	1959-61	16.7	---	*0.7	*0.4	---	*3.6	*11.1	23.3	60.3	102.0	146.5	*164.5
East North Central--	1949-51	10.3	---	*0.6	*0.3	*3.7	*2.1	*6.2	12.9	48.2	66.2	*90.9	*93.2
	1959-61	13.2	*1.5	---	*0.1	*1.3	3.4	8.3	20.7	48.2	113.8	117.3	*141.8
Ohio-----	1949-51	14.4	---	*2.3	---	*5.3	*3.3	*8.9	*15.2	69.6	*84.0	86.3	96.5
	1959-61	16.0	---	---	---	*0.7	*2.4	*6.3	23.5	62.9	136.9	*127.6	*159.5
Indiana-----	1949-51	11.5	---	---	---	*7.8	---	*7.7	*18.4	*43.7	*54.7	44.2	*233.6
	1959-61	12.8	*7.8	---	*1.1	---	---	*5.9	*25.4	*34.4	118.1	*99.7	---
Illinois-----	1949-51	7.2	---	---	---	*1.1	*1.7	*1.0	*9.6	*30.3	*64.1	*80.1	*94.7
	1959-61	11.0	*1.9	---	---	*1.0	*3.1	*6.8	17.5	35.8	100.8	*95.5	*168.8
Michigan-----	1949-51	9.6	---	---	*1.4	*4.6	*2.2	*9.0	*14.1	*47.8	*46.0	*174.1	---
	1959-61	14.0	---	---	*3.2	*5.3	13.2	21.4	55.1	106.6	*115.0	---	*164.7
Wisconsin-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*10.1	---	---	---	---	*8.9	*6.0	*9.4	*45.5	*59.6	*423.0	---
West North Central--	1949-51	13.2	---	---	*1.2	---	---	*3.0	*19.0	37.0	82.1	*131.4	---
	1959-61	15.3	---	---	---	*0.8	*4.2	*6.6	25.4	58.1	74.1	129.9	*97.9
Minnesota-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*7.8	---	---	---	---	---	*17.6	---	*26.6	*38.1	*199.0	---
Iowa-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*14.2	---	---	---	---	---	---	*26.7	*30.5	*87.6	*226.8	---
Missouri-----	1949-51	14.6	---	---	---	---	*2.4	*2.3	23.8	*47.9	*70.5	*159.9	---
	1959-61	15.4	---	---	*1.4	*5.9	*7.7	*27.0	48.7	88.1	88.1	*74.1	*80.9
North Dakota-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*10.1	---	---	---	---	---	---	---	---	---	*913.2	---
South Dakota-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*14.5	---	---	---	---	---	*26.2	---	*124.2	---	*160.3	*546.4
Nebraska-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*16.3	---	---	---	---	---	*16.5	*44.7	*145.2	---	*109.6	---
Kansas-----	1949-51	*10.5	---	---	*8.0	---	---	---	*11.2	*13.9	*64.3	*63.0	---
	1959-61	18.7	---	---	---	---	*4.9	---	*22.7	*79.9	*70.2	*231.5	*125.3
South Atlantic-----	1949-51	9.6	---	---	*0.7	2.2	4.1	9.7	22.1	43.0	47.8	64.0	*55.6
	1959-61	12.0	*0.4	*0.3	*0.6	1.9	3.8	10.7	23.6	52.9	78.8	82.3	*68.0
Delaware-----	1949-51	*9.0	---	---	---	---	---	---	---	*59.6	---	---	*8.6
	1959-61	22.6	---	---	*10.0	---	---	---	*51.0	*89.5	*148.0	*64.1	*326.8
Maryland-----	1949-51	9.3	---	---	---	---	*3.1	*3.4	*11.3	*53.6	*72.9	*90.2	---
	1959-61	13.0	---	---	---	*1.8	*3.9	*8.8	30.3	52.2	*64.1	*135.6	*158.2
D.C.-----	1949-51	10.7	---	---	---	---	---	*6.1	*31.6	*64.9	*36.9	*83.9	*252.5
	1959-61	9.2	---	---	---	---	---	*9.1	*20.6	*25.3	*80.5	*76.7	---
Virginia-----	1949-51	8.9	---	---	*1.3	*2.4	*4.3	*7.3	*18.4	*31.5	*55.4	*29.5	*53.9
	1959-61	13.0	---	---	---	---	*0.7	*9.8	21.4	49.8	93.0	118.8	*74.5
West Virginia-----	1949-51	*4.3	---	---	---	---	---	---	*13.0	*9.9	*37.1	---	---
	1959-61	20.5	---	---	---	---	*10.4	*7.9	*20.7	*54.0	*91.9	*88.5	*152.9
North Carolina-----	1949-51	8.9	---	---	*0.4	*2.1	*3.4	*12.8	*14.0	38.7	66.8	*111.2	*50.7
	1959-61	13.9	---	---	*0.9	*3.2	*4.0	14.9	28.3	55.9	98.4	132.1	*45.4
South Carolina-----	1949-51	10.6	---	---	*0.9	*2.1	*7.0	*14.3	*32.0	68.4	42.4	*45.8	---
	1959-61	8.8	*2.6	*0.7	*1.1	*1.0	*3.5	*10.1	21.9	43.6	60.4	*40.1	*31.4

See footnote at end of table.

Table 4. Average annual death rates per 100,000 population for diabetes, by color, sex, geographic division, State, and age: United States, 1949-51 and 1959-61--Con.

Characteristics	Years	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
Rate per 100,000 population													
<u>All other male--Con.</u>													
South Atlantic--Con.													
Georgia-----	1949-51	10.3	-	-	*1.3	*4.1	*8.3	*8.7	28.1	37.7	*39.9	*47.9	*74.3
	1959-61	11.0	-	*0.5	*0.5	*2.7	*5.9	*10.4	26.6	47.8	62.3	*41.2	*53.7
Florida-----	1949-51	9.8	-	-	-	*2.2	-	*13.5	*27.0	*37.5	*28.1	*65.4	*75.1
	1959-61	12.2	-	*0.6	*0.3	*2.1	*5.1	*11.0	*13.8	75.5	76.4	*47.2	*83.4
East South Central---	1949-51	9.9	-	*0.7	*0.7	*2.1	*2.5	6.7	16.9	31.5	61.8	76.1	*71.3
	1959-61	12.9	-	*0.2	*0.5	*1.9	*4.2	*8.3	20.7	43.3	76.5	77.1	*103.3
Kentucky-----	1949-51	18.5	-	-	-	-	-	*7.4	*28.2	*66.6	*79.2	*84.5	*114.2
	1959-61	14.1	-	-	-	-	-	*11.4	*5.6	*11.9	*49.0	*66.5	*58.7
Tennessee-----	1949-51	9.2	-	-	-	-	*2.8	*4.3	*24.4	*29.7	*59.4	*11.0	*56.6
	1959-61	14.0	-	-	-	*0.8	-	*6.8	23.0	48.4	83.6	*97.6	*98.4
Alabama-----	1949-51	9.2	-	-	*0.9	*3.2	*2.6	*9.0	*16.2	*24.2	69.4	*48.6	*70.9
	1959-61	12.3	-	-	*0.3	*2.3	*3.1	*10.6	19.8	42.5	79.9	74.9	*125.9
Mississippi-----	1949-51	9.1	-	*1.7	*0.9	*1.9	*2.9	*5.7	*9.3	*28.5	51.3	134.0	*67.7
	1959-61	12.4	-	*0.6	*1.1	*2.4	*6.8	*7.6	22.4	38.7	71.5	72.3	*87.0
West South Central---	1949-51	10.2	*1.5	*0.4	*0.2	*0.8	*2.9	*6.3	18.1	27.6	64.5	79.5	*80.0
	1959-61	13.8	*0.8	*0.2	*0.3	*0.8	4.5	6.3	18.5	52.1	83.2	101.5	*95.0
Arkansas-----	1949-51	9.1	*0.8	*2.1	-	-	-	-	-	-	-	-	-
	1959-61	9.7	*8.4	-	-	1.6	*4.5	6.3	*9.3	*15.7	*65.0	*35.4	*142.5
Louisiana-----	1949-51	11.0	-	-	-	-	*2.3	*8.7	*15.3	*34.7	*41.2	*49.9	*57.7
	1959-61	15.7	-	-	-	-	*1.9	*9.8	18.0	*31.5	*84.2	*81.9	*83.8
Oklahoma-----	1949-51	13.2	-	-	-	0.9	*5.3	*4.8	16.3	64.6	115.2	157.5	*64.3
	1959-61	17.8	-	-	-	-	-	-	-	-	-	-	-
Texas-----	1949-51	9.3	-	-	*0.5	*0.6	*3.7	*3.8	21.5	*24.0	44.2	*83.4	*68.8
	1959-61	12.8	*1.9	*0.5	*0.7	*1.2	*5.1	*6.7	18.0	48.6	76.1	78.8	*97.1
Mountain-----	1949-51	*6.3	-	-	-	-	-	-	-	-	-	-	-
	1959-61	7.7	-	-	-	-	-	-	-	-	-	-	-
Montana-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*16.2	-	-	-	-	*22.6	-	*74.7	-	*159.1	*163.4	-
Idaho-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*13.0	-	-	-	-	-	-	-	-	*142.5	-	*1,041.7
Wyoming-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*9.1	-	-	-	-	-	-	-	-	*258.4	(¹)	(¹)
Colorado-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*5.0	-	-	-	-	-	-	-	-	*23.7	(¹)	(¹)
New Mexico-----	1949-51	*1.9	-	-	-	-	-	-	-	-	*65.5	-	*374.5
	1959-61	*8.9	-	-	-	-	-	-	-	-	*61.7	-	-
Arizona-----	1949-51	*9.2	-	*6.6	-	*5.9	*6.9	*9.3	-	*36.5	*32.7	*236.4	*295.0
	1959-61	*5.0	-	-	-	-	-	*28.0	-	*18.5	*57.8	-	*246.3
Utah-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	*5.2	*25.3	*26.2	*28.1	-	-
	1959-61	*11.5	-	-	-	-	-	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Nevada-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*11.9	-	-	-	-	-	*50.6	*33.9	*50.0	-	(¹)	(¹)
Pacific-----	1949-51	8.4	*5.0	-	-	*0.9	*0.6	*2.1	8.2	*32.0	90.3	*127.5	*60.4
	1959-61	10.1	-	-	-	*0.5	*1.6	4.9	12.3	38.2	77.7	167.5	*148.3
Washington-----	1949-51	*12.6	*57.5	-	-	-	-	-	-	-	-	-	-
	1959-61	12.4	-	-	-	-	-	*27.3	*6.0	*48.9	*110.9	*228.6	*239.8
Oregon-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*8.8	-	-	-	-	-	*32.1	*50.2	*45.1	-	-	-
California-----	1949-51	8.1	-	-	-	*1.0	*0.7	*2.3	*6.9	*34.2	82.2	*150.0	*73.9
	1959-61	8.9	-	-	-	*0.4	*2.0	*4.7	12.5	34.4	61.9	170.5	*53.3
Alaska-----	1949-51	-	-	-	-	-	-	-	-	-	-	-	-
	1959-61	*4.8	-	-	-	-	-	-	-	-	-	-	-
Hawaii-----	1949-51	-	-	-	-	-	-	*12.5	*17.2	-	*56.6	*148.8	-
	1959-61	13.6	-	-	-	*1.1	-	*6.6	*11.3	47.2	114.6	*161.8	*309.9
<u>All other, female</u>													
United States--													
	1949-51	18.5	-	*0.6	0.9	2.4	4.0	13.9	42.7	86.4	101.0	115.7	105.3
	1959-61	22.7	*0.4	*0.3	0.4	1.6	3.9	11.6	40.2	106.4	140.9	166.7	149.0
New England-----	1949-51	22.5	-	-	-	-	-	*18.7	*25.2	*85.6	*154.9	*250.2	-
	1959-61	23.3	-	-	-	-	-	*13.0	*22.9	*76.8	166.8	431.2	*352.4
Maine-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*25.6	-	-	-	-	-	-	-	*317.5	-	*925.9	-
New Hampshire-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	(¹)	-	-	-	-	-	-	-	-	-	-	-
Vermont-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts-----	1949-51	*24.4	-	-	-	-	-	*18.6	*23.8	*100.0	*142.2	*215.8	-
	1959-61	26.4	-	-	-	-	-	*11.8	*18.2	*75.8	*120.1	*493.8	*486.6
Rhode Island-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*32.7	-	-	-	-	-	-	*42.6	*111.7	*420.9	*330.0	-
Connecticut-----	1949-51	*20.0	-	-	-	-	-	-	*11.7	*17.5	*92.3	*203.3	*298.5
	1959-61	18.8	-	-	-	-	-	*17.0	*25.9	*64.9	*199.4	*327.9	*231.5
Middle Atlantic-----	1949-51	22.6	*1.7	*0.6	*0.7	*1.8	*4.4	11.4	49.0	105.2	169.4	180.1	*87.1
	1959-61	25.2	-	-	*0.2	*0.9	4.3	13.6	43.1	106.6	169.6	233.0	212.7
New York-----	1949-51	19.4	-	-	-	*3.6	*3.6	10.9	44.6	87.9	153.5	*163.6	*50.7
	1959-61	23.4	-	-	*0.2	*0.6	4.9	14.8	39.8	91.7	176.2	220.3	*247.3

See footnote at end of table.

Table 4. Average annual death rates per 100,000 population for diabetes, by color, sex, geographic division, State, and age: United States, 1949-51 and 1959-61--Con.

Characteristics	Years	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
<u>All other, female—Con.</u>		Rate per 100,000 population											
Middle Atlantic—Con.													
New Jersey-----	1949-51	28.8	-	-	-	-	*3.2	*21.1	*49.1	126.7	223.8	*245.5	*208.8
	1959-61	26.6	*4.3	-	-	*0.8	*2.2	*11.5	46.9	119.5	210.2	259.3	*207.6
Pennsylvania-----	1949-51	24.6	-	*1.8	*1.9	-	*6.6	*7.6	55.4	118.6	162.8	*166.5	*60.2
	1959-61	27.5	*2.9	-	*0.4	*1.6	*4.5	12.5	47.1	123.4	139.5	236.3	*173.0
East North Central--	1949-51	22.7	-	*0.6	-	*1.7	*3.5	13.0	42.2	108.5	173.7	185.3	*149.6
	1959-61	23.9	-	*0.4	*0.3	*0.8	4.2	10.8	38.6	124.5	179.6	223.4	153.0
Ohio-----	1949-51	29.0	-	*2.3	-	*1.2	*4.0	50.8	114.0	214.1	*316.0	*316.0	*138.9
	1959-61	29.9	-	*0.7	*0.4	*0.6	*5.3	13.7	45.4	150.3	200.5	263.2	*182.6
Indiana-----	1949-51	22.0	-	-	-	*7.1	*3.2	*14.6	*48.4	*76.2	*132.8	*125.0	-
	1959-61	24.6	-	-	-	-	*4.8	*7.3	55.9	112.5	145.3	*222.5	*198.0
Illinois-----	1949-51	17.3	-	-	-	*0.9	*1.5	*9.8	27.8	86.8	137.3	*78.2	*239.5
	1959-61	18.9	-	-	*0.3	*1.7	*4.6	9.4	32.5	92.5	136.1	152.4	*122.2
Michigan-----	1949-51	23.5	-	-	-	*1.4	*4.2	12.2	51.2	160.4	197.6	*255.8	*123.8
	1959-61	26.2	-	*0.8	*0.4	-	*2.9	*11.0	36.0	153.7	238.1	314.8	*152.4
Wisconsin-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*10.7	-	-	-	-	-	*12.6	*10.4	*71.3	*228.5	*89.4	-
West North Central--	1949-51	23.3	-	-	*1.2	*5.1	*2.6	18.1	41.8	86.3	78.6	*170.6	*239.7
	1959-61	29.5	-	*0.9	*0.5	*0.7	*4.4	12.7	47.6	112.0	166.5	204.5	*255.2
Minnesota-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*14.4	-	-	-	-	*10.8	*14.2	*41.1	*87.3	*86.0	-	-
Iowa-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*20.4	-	-	-	-	-	-	*49.5	*31.6	*133.5	*322.6	-
Missouri-----	1949-51	25.5	-	-	*2.1	*6.3	*3.9	*16.2	*41.7	101.4	*73.5	*201.9	*331.7
	1959-61	30.4	-	-	*0.8	*1.2	*3.6	*12.9	47.4	109.9	167.8	189.3	*253.0
North Dakota-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*26.3	-	-	-	-	*43.3	-	-	-	*823.0	-	-
South Dakota-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*31.9	-	-	-	-	-	-	*108.6	*202.6	*238.1	*366.3	*595.2
Nebraska-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*27.6	-	*14.4	-	-	*12.1	*31.5	*65.2	*85.6	*87.8	*202.6	*350.9
Kansas-----	1949-51	21.0	-	-	-	-	-	*19.6	*54.1	*46.0	*66.9	*62.5	*233.6
	1959-61	34.7	-	-	-	-	-	*11.8	*36.4	*149.4	*165.0	*275.0	*333.3
South Atlantic-----	1949-51	17.4	-	*0.6	*1.4	2.3	4.8	16.2	46.1	90.5	81.4	90.8	*99.9
	1959-61	21.9	*0.4	*0.2	*0.5	1.7	3.8	13.9	41.6	115.3	127.7	129.5	113.2
Delaware-----	1949-51	*41.1	-	-	-	*14.7	*13.4	*15.1	-	*278.2	*280.3	-	*793.7
	1959-61	27.9	-	-	*4.9	-	-	*8.2	*31.7	*144.7	*248.6	*141.5	*308.6
Maryland-----	1949-51	20.3	-	-	-	*1.5	-	*14.0	*30.0	150.1	147.1	*66.1	*198.0
	1959-61	24.5	-	*1.1	-	*0.9	*1.8	*9.4	48.1	122.3	198.6	201.7	*119.2
D.C.-----	1949-51	16.8	-	-	-	-	-	*17.0	*43.8	*61.0	*85.8	*175.6	*261.1
	1959-61	14.0	-	-	-	*1.1	*5.8	*7.0	*16.4	54.4	103.8	*148.2	*232.1
Virginia-----	1949-51	19.4	-	-	*0.7	*3.1	*4.3	*14.8	40.6	83.5	128.2	*100.1	*79.6
	1959-61	21.8	-	-	-	*1.1	*3.2	*10.8	34.9	99.1	154.1	115.0	*103.6
West Virginia-----	1949-51	21.0	-	-	*4.5	-	*6.1	*12.3	*36.8	*69.1	*140.2	*82.0	*318.5
	1959-61	38.8	-	-	-	-	*7.0	*24.7	*42.6	139.5	*140.8	*293.8	*165.0
North Carolina-----	1949-51	12.4	-	*0.8	-	*1.5	*6.8	*7.4	31.3	69.8	84.9	*102.4	*102.7
	1959-61	20.8	*2.0	*0.5	*0.6	*2.9	*5.8	12.7	38.9	106.2	134.2	127.8	*173.3
South Carolina-----	1949-51	15.0	-	-	*1.9	*3.1	*4.4	20.8	64.4	80.1	*39.0	*53.3	*81.2
	1959-61	23.4	-	-	*0.3	*2.9	*2.9	17.1	49.8	156.4	121.4	113.9	*66.6
Georgia-----	1949-51	19.1	-	*0.9	*2.6	*1.5	*8.2	19.6	55.6	91.6	68.3	*79.1	*48.6
	1959-61	20.8	-	-	*0.7	*1.1	*3.9	16.5	46.5	99.0	82.7	118.5	*99.8
Florida-----	1949-51	19.9	-	*1.7	*2.7	*3.9	*2.8	21.8	56.2	106.1	*43.2	*118.5	*55.9
	1959-61	23.8	-	-	*1.3	*1.5	*2.7	18.6	48.5	150.1	133.5	*102.8	*23.5
East South Central--	1949-51	17.4	-	*1.0	*1.0	*2.5	*4.3	13.9	37.8	77.4	92.3	75.6	*86.7
	1959-61	22.6	*0.8	*0.2	*0.5	*2.6	4.4	11.8	41.0	84.8	107.4	144.1	163.1
Kentucky-----	1949-51	31.1	-	-	*3.0	*3.3	*10.1	*6.7	*61.7	*75.1	158.3	*133.7	*88.0
	1959-61	33.2	-	-	-	*4.7	*7.5	*14.9	*51.7	84.9	143.6	*190.9	*178.0
Tennessee-----	1949-51	19.2	-	-	*1.0	*6.5	*3.6	*16.2	40.5	78.9	80.3	*66.8	*90.5
	1959-61	21.5	-	-	*1.6	*3.7	*17.8	40.3	83.0	93.8	115.2	*80.4	*49.2
Alabama-----	1949-51	15.3	-	*0.9	*0.9	*1.7	*4.4	16.7	29.9	83.2	76.5	*60.7	*147.9
	1959-61	22.6	-	-	*1.1	*2.6	*4.7	*10.9	40.6	97.7	101.4	147.9	*121.3
Mississippi-----	1949-51	15.6	-	*1.7	*0.9	*1.1	*3.2	*11.3	37.7	71.3	96.9	*78.1	*226.0
	1959-61	20.7	*2.2	*0.6	*0.3	*2.8	*3.6	*7.3	39.2	72.1	111.9	143.8	*99.5
West South Central--	1949-51	18.5	-	*0.4	*0.6	*3.3	*4.1	14.1	43.5	75.1	78.5	118.9	*118.0
	1959-61	26.7	-	*0.4	*0.3	*2.4	4.3	9.8	44.8	118.1	148.9	140.8	*53.8
Arkansas-----	1949-51	15.2	-	-	-	*5.6	*12.6	*32.2	*58.4	*60.8	*82.7	*92.5	*52.1
	1959-61	21.6	-	-	*0.7	*3.6	*7.1	*10.1	37.5	85.9	86.0	164.5	*85.9
Louisiana-----	1949-51	20.7	-	*1.0	*1.0	*2.6	*4.7	*16.0	49.5	84.5	88.5	215.7	*201.8
	1959-61	31.8	-	*0.5	-	*2.4	*5.4	*9.8	50.4	130.2	205.4	215.7	*113.1
Oklahoma-----	1949-51	20.0	-	-	-	-	-	*18.7	*28.0	*85.6	*96.9	*164.7	*96.5
	1959-61	29.3	-	-	-	-	*2.6	*13.6	*51.9	122.3	153.3	*113.4	*131.0
Texas-----	1949-51	17.5	-	-	*0.5	*3.5	*3.9	*12.3	46.5	72.3	73.0	*81.9	*74.5
	1959-61	23.4	-	*0.5	*0.5	*2.3	*3.2	9.1	41.3	119.4	123.9	97.8	-
Mountain-----	1949-51	11.8	-	-	-	*2.4	*3.1	*16.4	*58.6	*48.4	*43.9	-	-
	1959-61	12.3	-	-	-	-	*4.2	*9.5	*25.4	96.8	*127.4	-	*224.8
Montana-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*25.7	-	-	-	-	-	*30.4	*88.5	*126.0	*298.5	-	*666.7

See footnote at end of table.

Table 4. Average annual death rates per 100,000 population for diabetes, by color, sex, geographic division, State, and age: United States, 1949-51 and 1959-61--Con.

Characteristics	Years	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
		Rate per 100,000 population											
<u>All other, female—Con.</u>													
Mountain—Con.													
Idaho-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*14.2	-	-	-	-	-	-	-	*125.3	*169.2	-	-
Wyoming-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*38.3	-	-	-	-	-	*85.5	*149.5	*191.6	-	-	*4,761.9
Colorado-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*10.1	-	-	-	-	-	*18.8	*21.4	*21.4	*130.5	-	*311.5
New Mexico-----	1949-51	*12.0	-	-	-	-	-	*19.3	*61.9	*53.9	*79.4	*187.3	-
	1959-61	*6.2	-	-	-	-	*6.4	-	*27.4	*65.7	*42.4	-	-
Arizona-----	1949-51	*7.6	-	-	-	*5.6	*7.9	*9.8	*45.1	*26.3	-	-	-
	1959-61	13.2	-	-	-	-	*3.9	*5.2	*20.9	*121.3	*171.5	-	*146.8
Utah-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*8.3	-	-	-	-	-	-	*68.6	*84.0	-	-	-
Nevada-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*12.6	-	-	-	-	*19.3	-	-	*220.3	-	-	-
Pacific-----	1949-51	7.5	-	-	-	*1.8	-	*4.6	*15.1	*29.4	*78.6	*99.5	*165.2
	1959-61	12.6	-	*0.6	-	*1.0	*1.3	*4.8	23.3	58.9	121.1	202.2	*113.2
Washington-----	1949-51	*15.0	-	-	-	-	-	*15.3	*23.1	*70.9	*121.2	*348.4	-
	1959-61	*11.9	-	*5.4	-	-	-	-	*9.5	*102.8	*47.1	*276.6	*476.2
Oregon-----	1949-51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
	1959-61	*9.4	-	-	-	-	-	*13.6	*34.3	*117.4	*178.3	-	-
California-----	1949-51	6.3	-	-	-	*1.0	-	*4.0	*15.0	*27.0	*60.9	*57.8	*196.1
	1959-61	12.4	-	-	-	*0.8	*1.9	*5.8	23.9	59.2	112.6	180.4	*74.7
Alaska-----	1949-51	-	-	-	-	-	-	-	-	-	-	-	-
	1959-61	*4.2	-	-	-	*8.2	-	*14.6	-	*44.3	-	-	-
Hawaii-----	1949-51	-	-	-	-	-	-	-	-	-	-	-	-
	1959-61	14.6	-	*1.6	-	*1.1	-	*1.1	*28.6	*52.1	171.7	260.9	*138.9

¹Rate not computed where the 1950 population for "all other" formed less than 20 percent of the total population and numbered less than 50,000.

Table 5. Average annual death rates per 100,000 population for diabetes by marital status, age, color, and sex: United States, 1959-61

Marital status and age	Total			White			All other		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
<u>All marital statuses</u>	Rate per 100,000 population								
15 years and over-----	23.7	19.6	27.4	23.1	19.5	26.5	28.6	21.0	35.5
15-19 years-----	0.6	0.4	0.8	0.5	0.4	0.7	1.3	0.9	1.6
20-24 years-----	1.1	1.2	1.1	1.0	1.1	1.0	1.6	1.7	1.5
25-29 years-----	2.2	2.4	2.0	2.0	2.2	1.7	3.6	3.6	3.6
30-34 years-----	2.9	3.3	2.4	2.7	3.3	2.2	3.9	3.6	4.1
35-39 years-----	3.7	4.4	2.9	3.2	4.1	2.3	7.7	7.3	8.2
40-44 years-----	5.2	5.6	4.7	4.3	5.1	3.5	13.0	10.3	15.4
45-49 years-----	8.2	8.7	7.8	6.7	7.9	5.6	22.1	16.4	27.4
50-54 years-----	15.3	14.7	15.9	12.6	13.4	11.7	41.6	27.6	55.0
55-59 years-----	26.8	24.2	29.3	23.1	22.6	23.6	60.8	38.2	82.7
60-64 years-----	49.0	40.1	57.1	44.4	37.6	50.5	100.4	67.1	131.1
65-69 years-----	77.1	63.2	89.2	74.3	61.6	85.4	107.6	80.1	132.4
70-74 years-----	113.8	92.1	132.2	112.6	91.3	130.7	128.3	101.8	152.4
75-79 years-----	154.4	133.1	171.3	155.9	135.8	171.7	135.7	101.8	166.5
80-84 years-----	191.7	171.2	206.4	194.7	174.8	208.9	148.1	123.7	168.2
85 years and over-----	188.9	180.5	194.2	193.3	187.2	197.1	136.4	108.9	157.1
<u>Single</u>									
15 years and over-----	9.2	9.1	9.3	9.1	9.1	9.0	10.0	9.1	11.1
15-19 years-----	0.6	0.4	0.8	0.5	0.4	0.7	1.1	0.9	1.4
20-24 years-----	1.7	1.7	1.7	1.5	1.6	1.5	2.5	2.2	2.8
25-29 years-----	5.2	5.5	4.6	4.8	5.3	3.9	7.0	6.5	7.6
30-34 years-----	7.8	8.3	6.9	7.6	8.2	6.7	8.8	9.3	8.1
35-39 years-----	9.3	10.7	7.4	8.7	10.5	6.4	12.5	11.7	13.7
40-44 years-----	13.3	14.9	11.4	11.2	13.4	8.8	28.2	24.8	32.8
45-49 years-----	14.7	18.9	10.4	12.2	16.7	7.5	36.5	34.7	39.1
50-54 years-----	18.9	24.5	13.4	16.4	23.3	10.1	42.1	34.5	53.2
55-59 years-----	27.7	34.8	20.9	25.2	34.1	17.2	49.1	39.1	64.0
60-64 years-----	43.3	52.8	34.7	40.5	50.9	31.5	81.1	72.3	94.8
65-69 years-----	59.7	74.0	47.5	57.0	72.5	44.3	101.4	91.5	116.0
70-74 years-----	80.0	89.2	72.8	78.3	88.9	70.2	112.5	93.4	138.0
75-79 years-----	101.3	117.7	89.6	100.6	120.3	86.9	116.4	77.8	165.8
80-84 years-----	121.7	134.6	114.5	122.6	137.9	114.2	100.8	77.4	126.4
85 years and over-----	124.0	145.8	113.8	124.7	146.7	114.9	108.2	133.9	81.1
<u>Married</u>									
15 years and over-----	17.6	17.8	17.3	17.1	17.6	16.5	22.3	19.9	24.6
15-19 years-----	0.8	0.5	0.8	0.5	0.3	0.6	2.3	2.2	2.3
20-24 years-----	0.7	0.5	0.7	0.7	0.5	0.8	0.8	0.9	0.7
25-29 years-----	1.5	1.4	1.6	1.4	1.3	1.5	2.5	2.3	2.7
30-34 years-----	2.1	2.3	1.9	2.0	2.3	1.7	2.9	2.2	3.5
35-39 years-----	2.8	3.3	2.4	2.4	3.0	1.9	6.3	5.9	6.6
40-44 years-----	4.0	4.2	3.8	3.4	3.9	2.9	9.9	7.6	12.0
45-49 years-----	7.0	7.2	6.9	5.9	6.6	5.2	17.8	12.8	22.9
50-54 years-----	13.6	12.7	14.5	11.5	11.6	11.3	35.5	23.6	49.0
55-59 years-----	23.8	21.3	26.7	21.3	20.1	22.7	50.0	32.7	71.4
60-64 years-----	44.0	35.3	54.6	41.1	33.6	50.3	79.9	55.9	112.4
65-69 years-----	69.7	57.8	86.4	68.3	56.2	84.3	87.7	70.2	114.9
70-74 years-----	101.6	83.7	130.1	101.7	88.3	130.6	100.0	88.6	121.8
75-79 years-----	140.8	123.0	174.1	142.7	124.9	175.4	115.2	99.5	153.3
80-84 years-----	175.7	159.3	214.7	178.9	163.9	214.2	129.3	97.7	223.3
85 years and over-----	163.8	158.6	179.4	171.1	166.5	184.4	92.3	83.6	122.7

Table 5. Average annual death rates per 100,000 population for diabetes by marital status, age, color, and sex: United States, 1959-61—Con.

Marital status and age	Total			White			All other		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
<u>Widowed</u>									
Rate per 100,000 population									
15 years and over-----	109.2	111.3	108.6	109.2	114.9	107.7	109.4	89.0	115.6
15-19 years-----	10.2	0.0	14.0	6.9	0.0	9.4	19.3	0.0	27.3
20-24 years-----	1.5	0.0	1.9	2.1	0.0	2.7	0.0	0.0	0.0
25-29 years-----	2.1	7.0	0.9	3.2	9.6	1.4	0.0	0.0	0.0
30-34 years-----	4.4	5.8	4.0	3.7	5.4	3.3	5.8	6.8	5.6
35-39 years-----	10.7	10.2	10.8	6.5	6.4	6.6	22.0	19.6	22.5
40-44 years-----	11.3	12.1	11.2	5.6	8.8	5.0	29.8	20.7	32.0
45-49 years-----	15.2	14.9	15.3	8.7	10.7	8.4	40.0	27.9	42.9
50-54 years-----	26.5	27.1	26.4	16.4	21.0	15.6	73.2	48.1	79.7
55-59 years-----	42.8	43.1	42.7	32.2	37.4	31.2	98.2	65.2	107.4
60-64 years-----	69.2	70.1	69.0	57.9	62.1	57.0	147.2	112.0	157.2
65-69 years-----	98.9	86.8	101.7	94.1	83.8	96.4	135.0	104.7	144.4
70-74 years-----	139.5	122.9	144.2	137.8	122.7	141.9	157.0	124.8	168.0
75-79 years-----	176.4	159.0	182.1	178.7	164.1	183.3	151.1	110.0	167.0
80-84 years-----	209.7	191.6	216.4	213.7	194.7	220.6	154.7	150.4	156.4
85 years and over-----	203.3	200.7	204.4	207.4	206.9	207.6	154.1	130.5	164.5
<u>Divorced</u>									
15 years and over-----	27.8	38.0	20.6	26.7	37.7	18.9	35.3	40.8	32.0
15-19 years-----	1.2	0.0	1.6	1.4	0.0	1.7	0.0	0.0	0.0
20-24 years-----	2.2	1.3	2.6	2.2	1.4	2.6	2.1	0.0	2.8
25-29 years-----	4.6	8.1	2.3	4.4	8.7	1.4	5.6	3.2	6.7
30-34 years-----	9.1	13.9	5.9	9.7	14.9	6.0	6.3	7.5	5.7
35-39 years-----	9.5	17.9	4.2	9.5	18.6	3.4	9.8	13.5	7.7
40-44 years-----	13.4	21.3	8.2	12.6	20.9	7.1	18.1	24.0	14.8
45-49 years-----	15.0	24.2	8.8	12.5	22.7	5.5	31.3	34.1	29.5
50-54 years-----	23.2	33.4	15.9	20.4	31.1	12.7	44.1	50.6	39.6
55-59 years-----	33.4	43.0	26.0	29.0	41.2	19.7	69.4	57.8	78.6
60-64 years-----	55.4	62.8	49.4	48.6	57.4	41.6	126.7	116.2	136.0
65-69 years-----	85.5	95.7	76.6	81.7	93.4	71.7	126.5	118.5	134.6
70-74 years-----	108.7	114.0	103.6	104.8	109.3	100.6	156.7	168.6	144.1
75-79 years-----	138.0	153.5	121.1	139.7	162.6	115.2	115.0	46.1	208.9
80-84 years-----	167.0	184.5	148.6	164.9	185.2	144.1	193.5	177.1	218.9
85 years and over-----	151.1	129.4	174.0	165.0	140.9	190.3	0.0	0.0	0.0

Table 6. Average annual death rates per 100,000 population for diabetes, by geographic division, area, color, and sex: United States, 1959-61

Geographic region and area	Total			White			All other		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
	Rate per 100,000 population								
United States-----	16.4	13.4	19.3	16.2	13.5	18.9	18.0	13.0	22.7
Metropolitan-----	16.2	13.2	19.1	16.0	13.2	18.7	18.2	13.3	22.9
Nonmetropolitan-----	16.7	13.8	19.6	16.6	14.0	19.2	17.6	12.5	22.5
New England-----	19.6	15.7	23.3	19.6	15.7	23.3	19.1	14.8	23.3
Metropolitan-----	20.2	16.3	23.8	20.2	16.3	23.8	19.4	13.8	24.8
Nonmetropolitan-----	17.8	13.9	21.6	17.8	13.8	21.8	16.6	23.6	8.4
Middle Atlantic-----	20.7	16.2	25.0	20.7	16.2	25.0	20.9	16.2	25.2
Metropolitan-----	20.6	16.2	24.7	20.5	16.2	24.6	21.1	16.4	25.3
Nonmetropolitan-----	21.3	16.0	26.4	21.3	16.0	26.5	18.9	13.7	24.6
East North Central-----	19.7	15.8	23.5	19.8	16.0	23.5	18.7	13.2	23.9
Metropolitan-----	18.8	15.2	22.4	18.9	15.4	22.3	18.4	13.1	23.4
Nonmetropolitan-----	21.5	17.1	25.9	21.5	17.2	25.8	22.6	14.0	31.7
West North Central-----	17.2	15.2	19.1	16.9	15.2	18.6	22.5	15.3	29.5
Metropolitan-----	15.4	13.3	17.3	14.9	13.2	16.5	21.5	14.6	27.7
Nonmetropolitan-----	18.5	16.6	20.5	18.4	16.6	20.2	25.5	16.9	34.6
South Atlantic-----	13.5	11.4	15.6	12.4	11.2	13.7	17.1	12.0	21.9
Metropolitan-----	13.2	11.0	15.4	12.0	10.6	13.4	17.6	12.6	22.4
Nonmetropolitan-----	13.8	11.8	15.8	12.9	11.8	13.9	16.7	11.6	21.5
East South Central-----	13.1	10.9	15.3	11.7	10.3	13.1	17.9	12.9	22.6
Metropolitan-----	13.1	10.4	15.5	11.1	9.6	12.6	19.2	13.2	24.5
Nonmetropolitan-----	13.1	11.1	15.1	12.0	10.7	13.4	17.1	12.7	21.3
West South Central-----	14.3	11.7	16.9	13.1	11.3	14.8	20.4	13.8	26.7
Metropolitan-----	13.4	11.0	15.7	12.0	10.4	13.5	20.8	14.0	27.0
Nonmetropolitan-----	15.5	12.6	18.3	14.4	12.4	16.4	20.1	13.6	26.3
Mountain-----	10.7	9.5	12.0	10.8	9.6	12.0	10.0	7.7	12.3
Metropolitan-----	9.2	8.4	10.1	9.2	8.4	9.9	11.0	8.2	13.8
Nonmetropolitan-----	12.2	10.5	13.9	12.3	10.7	14.1	9.3	7.4	11.2
Pacific-----	10.5	9.1	12.0	10.5	9.0	11.9	11.3	10.1	12.6
Metropolitan-----	9.7	8.4	11.0	9.6	8.3	10.9	10.7	9.2	12.3
Nonmetropolitan-----	13.5	11.6	15.6	13.5	11.4	15.6	14.6	14.7	14.4

APPENDIX

QUALIFICATIONS OF DATA

Source of Data

The mortality statistics presented in this report are based on information obtained from microfilm copies of the original death certificates. Mortality data for the United States (including each State and the District of Columbia, with Alaska added in 1959, and Hawaii in 1960) are restricted to events registered within the United States. Deaths among nonresident aliens in the United States are included. Data for States, geographic divisions, and metropolitan and nonmetropolitan counties are presented by place of residence. For nonresident aliens the place of residence is considered to be the same as the place of occurrence.

Cause of Death

Deaths are classified by cause according to the International Classification of Diseases, Injuries, and Causes of Death. The Sixth Revision of the International Classification was used in the United States from 1949 through 1957 and the Seventh Revision from 1958 through 1967. Deaths with diabetes mellitus entered as the underlying cause on the certificate were classified to category number 260 in both revisions.

The change from the Sixth to the Seventh Revision, with subsequent changes in the coding rules, caused almost no break between the two revisions in comparability for diabetes.³ A 10-percent sample of deaths occurring in the United States in 1958 coded according to the rules of both revisions indicated that only 1.5 percent more deaths would be classified to diabetes mellitus under the rules of the Seventh Revision than under those of the Sixth. This excess of deaths under the rules of the Seventh Revision remained very small for all age-color-sex groups, ranging from +7 percent to -4 percent (where the numbers in each subgroup were large enough to be reliable). Thus the trend in the death rate for diabetes over period 1950-67 is not appreciably affected by the use of two Revisions of the International Classification.

Color

"White" and "all other" are the designations used in this report for the two color groups. The category "white" includes, in addition to persons reported as white, those reported as Mexican, Puerto Rican, or Cuban and until 1964 those with race not stated. Beginning in 1964 deaths with race not stated are assigned to white or Negro on the assumption that the distribution of "not stated" events by race is the same as for these two races where race is stated.

The category "all other" includes persons reported as Negro, American Indian, Chinese, and Japanese and persons of mixed racial descent. Deaths by race were not available for New Jersey in 1962 and 1963. The race or color item was omitted on the death certificate at the beginning of 1962 and was not reinstated until late 1962. The 1963 statistics by race were incomplete because of the continued use of the certificates omitting the item. Consequently rates for color for the United States exclude New Jersey in both 1962 and 1963.

Rates

Rates based on fewer than 20 deaths are shown with an asterisk to indicate that these figures are subject to large fluctuations. The number "20" is arbitrary and is not set forth as a critical point distinguishing statistically reliable rates from unreliable rates.

Age-Adjusted Rates

The age-adjusted rates presented in this report were computed by the direct method, that is, by applying the age-specific death rates for diabetes mellitus to the standard population distributed by age. The total population as enumerated in 1940 was selected as the standard. The rates for the total population and

for each color-sex group were adjusted separately, using the same standard population. It is important not to compare age-adjusted rates with unadjusted rates.

Age-adjusted rates are shown with an asterisk where more than half of the age-specific death rates are based on fewer than 20 deaths.

Population Bases

Rates are computed on the bases of population statistics made available by the U.S. Bureau of the Census. They include populations present in the specified areas, including the Armed Forces stationed in the area, but exclude the Armed Forces overseas and persons living abroad.

Populations for 1950 and 1960 are enumerated as of April 1. For all other years the population estimated as of July 1 was used. The rates for the years 1951 through 1959 are based on the final intercensal population estimates¹ and, as a result, may differ slightly from rates published earlier which were based on provisional population estimates. Population estimates by color for 1962 and 1963 exclude New Jersey.

The 3-year average annual rates were computed using the number of deaths occurring for the 3 years and the decennial enumerated populations multiplied by three.

Some of the 1960 population data published by the Bureau of the Census was obtained on a complete-count basis in the 100-percent enumeration and some on a 25-percent sample enumeration. There are differences between these two sets of published figures, the greatest differences being in the older ages. For the total United States, the largest percent differences for sex, color, and 5-year-age groups are for males 85 years of age and over by color.

As a general rule, the population series based on 100-percent enumeration are used in computing vital statistics rates. Exceptions are made where populations are required for characteristics which were not covered in the complete count. In this report, death rates for diabetes mellitus distributed by marital status are exceptions; they are based on populations from the 25-percent sample. As a result, the rates appearing in table 5 for all marital status groups combined are slightly different from those in table 4.

Multiple Causes of Death

The statistics for the multiple cause section of this report are based on a sample of the death certificates filed for the routine mortality statistics of 1955. The rules for coding multiple causes of death are discussed in the study that formed the basis for the multiple cause analysis of this report.² The method of coding underlying causes of death in 1955 is described in the Cause-of-Death Coding Manual for that year.⁵ Twenty percent of the certificates filed from the Middle Atlantic,

East North Central, and West North Central Divisions were systematically sampled while 50 percent of the certificates from the remaining areas of the country were sampled. Information concerning the contributory conditions listed on the sample certificates was then coded and punched onto the sample cards.

No attempt was made to force the sample figures to agree with the number of registered deaths, either in total or for any subgroups. Also, errors in tabulating or in coding of conditions were not generally corrected. According to the 1955 study, "The total number of such age and cause errors was not large enough to affect interpretation of the data."²

A chi-square test was used to determine whether diabetes mellitus was associated with any other given disease more often than could be expected by chance, assuming independence of the underlying and contributory causes. For example, for deaths among white persons with diabetes as underlying cause and vascular lesions affecting the central nervous system as the contributory cause, the following table could be constructed:

Contributory condition	Underlying cause		
	Diabetes	Other	Total
Vascular lesions----	E=1,973 O=4,999	O=112,190	117,189
Other-----	O=17,733	O=1,215,361	1,233,094
Total---	22,732	1,327,551	1,350,283

E=Expected deaths

O=Observed deaths

The expected number of deaths due to diabetes with vascular lesions as a contributory condition is the product of the number of deaths for each of these conditions taken independently divided by the total deaths:

$$\frac{22,732 \times 117,189}{1,350,283} = 1,973$$

Since the upper-left-hand cell contributes 90 percent or more to the value of chi-square (for all diseases, not just diabetes), only its value has to be determined to establish significance. In this example, the observed number of deaths is 2.5 times the number expected and is greater than probability would allow.

The same test can be made for diabetes as a contributory condition with other underlying conditions and for individual color-sex-age groupings. Sample variation and error can affect the results. McCowin has submitted a critique of this method and has proposed alternatives.⁶

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