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DEPARTMENT OF THE INTERIOR,
CENSUS OFFICE.

ROBERT P. PORTER,
Superintendent.
Appointed April 20, 1889; resigned July 31, 1893.

CARROLL D. WRIGHT,
Commissioner of Labor in charge.
Appointed October 5, 1893.

REPORT

ON

VITAL AND SOCIAL STATISTICS

IN

THE UNITED STATES

AT THE

ELEVENTH CENSUS: 1890.

PART I.—ANALYSIS AND RATE TABLES.

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WASHINGTON, D. C.:
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1896.

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LETTER OF TRANSMITTAL.

DEPARTMENT OF THE INTERIOR,
OFFICE OF THE SECRETARY,
DIVISION OF THE ELEVENTH CENSUS,
WASHINGTON, D. C., December 30, 1896.

SIR:

I have the honor to transmit herewith Part I of the Report on Vital and Social Statistics for the Eleventh Census, containing the general summary of conclusions derived from the tables in the volumes, and ratios of deaths to population in different localities, with distinction of age, sex, race, color, conjugal condition, occupations, and causes of death in various relations.

Part II contains similar statistics relating to cities having 100,000 inhabitants and over in 1890, and Parts III and IV contain tables relating to deaths.

The Report on Vital and Social Statistics was prepared by Dr. John S. Billings, deputy surgeon-general United States army (retired), who, in submitting the report, desires to call attention to the valuable aid in its preparation which has been given by Mr. William A. King, chief of the division of Vital Statistics, from the beginning to the completion of the work, and for many able suggestions as to methods of compilation and modes of presentation of the results.

The proof for this part of the report was read by the Government Printing Office.

I am, very respectfully, your obedient servant,

CARROLL D. WRIGHT,
Commissioner of Labor in charge Eleventh Census.

Hon. DAVID R. FRANCIS,
Secretary of the Interior.

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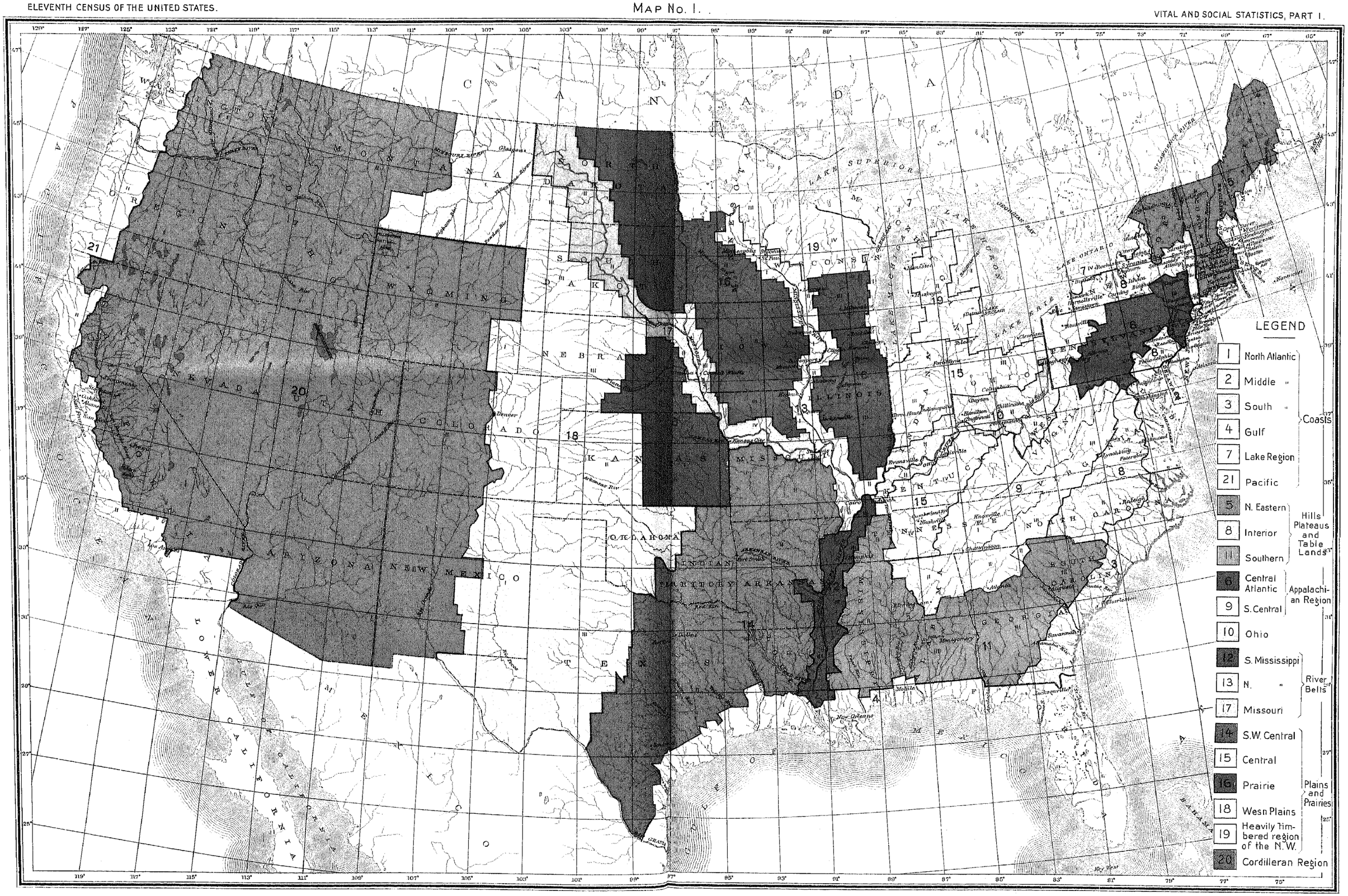

LEGEND
1 North Atlantic
2 Middle "
3 South "
4 Gulf
7 Lake Region
21 Pacific
Coasts
5 N. Eastern
8 Interior
11 Southern
Hills Plateaus and Table Lands
6 Central Atlantic
9 S. Central
Appalachian Region
10 Ohio
12 S. Mississippi
13 N. "
17 Missouri
River Belts
14 S.W. Central
15 Central
16 Prairie
18 Wesn Plains
19 Heavily Timbered region of the N.W.
Plains and Prairies
20 Cordilleran Region

VITAL AND SOCIAL STATISTICS.

SECTION I.

INTRODUCTORY AND EXPLANATORY REMARKS.

The data used in this report, and contained in the appended tables, differ in completeness and accuracy for different portions of the United States. The majority of the states had no satisfactory system of registration of deaths during the census year ending May 31, 1890, and in these states the only record of deaths for that period which could be obtained was that furnished by the enumerators as the result of inquiry in each family, supplemented to some extent by reports from physicians, as will be explained hereafter. It is well known that a record thus obtained is imperfect, the deficiency ranging from 20 to 50 per cent in different localities, and being greatest for the earlier months of the year for which such record is made. (See Tenth Census Reports, United States, volume XI, page xl.)

The states of Massachusetts, Connecticut, New Hampshire, Vermont, Rhode Island, New York, New Jersey, and Delaware, and the District of Columbia, had a fairly complete registration of deaths during the census year, and this record was copied and is used in this report, instead of the enumerators' returns. These states are referred to in the report as the "Registration states".

There were also 83 cities in nonregistration states which had a fairly satisfactory system of registration of deaths during the census year, and these records were also copied and used instead of the enumerators' returns for these cities.

A list of these cities is given in the appendix pages, 495 and 496.

The sum of the records of deaths in the registration states, and in the registration cities not in the registration states, is the record which is referred to in this report as that of the "Registration area" or as the "Registration record". The record of the registration area and of its subdivisions is the only part of the records of deaths for the whole country which can be used for the calculation of death rates, or mortality, properly so called. For the rest of the country the only rates which are of any value are those which can be obtained from the record of deaths alone, without reference to its completeness or to population, being such as the number of deaths due to a given cause per 1,000 deaths from all causes, or at a given age per 1,000 deaths at all ages, or combinations of these two ratios, with distinctions of color, sex, etc. Such rates, as is well known to statisticians, have little positive scientific value as compared with the ratios of deaths to population; nevertheless, they furnish some valuable information and suggestions, and are therefore given in this report to a considerable extent.

The methods of obtaining records of population and of deaths were substantially the same in the Eleventh Census as in the Tenth, and the forms of tables used in this report include practically all the forms employed in the Report on the Mortality and Vital Statistics of the Tenth Census, as published in volumes XI and XII of the reports of that census, so that it is easy to compare the figures in that report with those contained in the present one.

There is, however, much given in this report with regard to which no corresponding data can be found in the report of the Tenth Census, because in 1880 the registration area was limited to Massachusetts, New Jersey, the District of Columbia, and 19 cities in other states. For that portion of the United States in which there was no registration of deaths the returns of deaths furnished by the enumerators appear to have been more incomplete and imperfect in 1890 than they were in 1880, as will be seen in Section II of this report.

The attempt made in the Tenth Census to obtain more complete returns of deaths from those parts of the country having no registration by asking the voluntary co-operation of the medical profession was also carried out in the Eleventh Census. Blank forms for registering deaths were sent to each physician in the United States in nonregistration localities, so far as their addresses could be obtained from postmasters and other sources. In 1880, 70,299 small books of such blank forms were sent out to physicians, and 25,809 were returned, from which 61,020 deaths were added to the enumerators' returns. In 1890, 74,854 of these blank books were sent out, and 12,684 were returned from which 39,805 deaths were added to the returns.

The following statement gives the details by states:

STATES AND TERRITORIES.	Registers sent.	Registers returned.	Deaths reported.	Deaths added.
The United States	74,854	12,684	99,853	39,805
Alabama	2,396	333	3,200	693
Arizona	93	22	179	148
Arkansas	2,231	450	3,569	2,073
California	1,508	225	1,586	624
Colorado	439	81	655	370
Connecticut	3	1	8	.....
Dakota	528	.....	.....	.....
North Dakota	.....	44	357	165
South Dakota	.....	92	810	464
Delaware	237	36	310	63
Florida	760	116	791	466
Georgia	2,434	255	2,136	1,066
Idaho	84	23	284	124
Illinois	4,587	625	5,799	1,940
Indiana	4,053	701	4,414	1,431
Indian territory	38	12	212	.....
Iowa	2,934	598	3,938	1,096
Kansas	2,896	483	3,517	971
Kentucky	3,245	508	4,267	2,193
Louisiana	1,098	159	1,600	916
Maine	1,137	182	2,069	693
Maryland	1,649	166	1,712	760
Michigan	2,936	483	3,540	1,280
Minnesota	1,476	211	2,007	507
Mississippi	1,931	250	2,369	1,144
Missouri	4,103	665	4,336	2,137
Montana	193	36	503	417
Nebraska	1,484	299	1,419	626
Nevada	96	24	177	60
New Hampshire	537	116	1,173	136
New Jersey	5	5	31	.....
New Mexico	150	34	265	180
New York	275	54	.....	.....
North Carolina	2,062	237	2,234	984
Ohio	5,316	1,040	7,840	2,484
Oregon	583	103	559	345
Pennsylvania	5,443	1,276	12,519	4,416
Rhode Island	3	1	11	.....
South Carolina	1,347	194	1,477	305
Tennessee	3,775	572	4,229	1,752
Texas	4,120	739	5,632	2,820
Utah	196	35	460	293
Vermont	618	126	1,191	182
Virginia	2,351	278	2,871	1,262
Washington	409	63	577	318
West Virginia	1,280	199	1,538	598
Wisconsin	1,542	309	2,373	1,177
Wyoming	80	12	103	61

Where the enumerators' returns were imperfect, or missing without satisfactory explanation, corrections were made and omissions supplied through correspondence, by which means 67,666 deaths were added to the number originally reported.

The following statement gives the details by states:

STATES AND TERRITORIES.	Schedules corrected.	Additional schedules furnished.	Additional deaths furnished.
The United States	3,761	6,617	67,666
Alabama	69	208	2,585
Arizona	6	17	207
Arkansas	195	184	2,053
California	57	149	1,769
Colorado	12	46	661
Connecticut	15	31	752
Delaware	13	25	360
Florida	26	54	691
Georgia	124	330	4,195
Idaho	7	9	126
Illinois	248	473	3,704
Indiana	189	237	1,720
Iowa	148	310	2,017
Kansas	95	175	1,141
Kentucky	121	194	2,948
Louisiana	63	140	2,496
Maine	50	80	1,148
Maryland	91	87	1,212
Massachusetts	38	23	647
Michigan	95	262	2,369
Minnesota	65	116	917
Mississippi	97	217	3,283
Missouri	186	403	3,338
Montana	6	30	195
Nebraska	73	192	1,273
Nevada	2	9	93
New Hampshire	24	9	57
New Mexico	4	8	128
New York	41	2	22
North Carolina	170	261	2,719
North Dakota	20	19	146
Ohio	379	393	2,671
Oklahoma	6	4	22
Oregon	32	50	508
Pennsylvania	411	320	3,074
Rhode Island	12	6	212
South Carolina	86	165	2,191
South Dakota	12	36	174
Tennessee	125	278	3,264
Texas	120	319	3,491
Utah	8	29	371
Vermont	30	15	76
Virginia	103	208	3,042
Washington	23	44	335
West Virginia	56	119	1,025
Wisconsin	97	320	2,176
Wyoming	1	11	62

Where both enumerators' and registration records were received they were compared with each other and with the returns made by physicians, in order to make the record as complete as possible.

The differences in the laws governing the registration of deaths in different localities, in the enforcement of such laws, and in the manner of obtaining and recording the data are so great, and the effect of these differences upon the work of this office in compiling mortality statistics from such data is likewise so great that it is considered desirable to give an outline of the plan pursued in dealing with these records, specifying certain defects and making certain recommendations.

In order to secure the greatest completeness in the return of deaths, and to limit the field in which it would be necessary to rely upon the inquiries of the enumerators, it was determined, upon commencing the work, to secure copies of registration records in all places where it should appear that local laws governing the subject were enforced in such manner as to make it probable that the deaths were all returned, provided that the facts recorded for each death, as indicated by the form of certificate or record employed, covered the data called for by the regular census schedule used by the enumerators.

For this purpose letters were addressed to the authorities of all cities having an estimated population of 5,000 and upward, as follows:

DEPARTMENT OF THE INTERIOR,
CENSUS OFFICE,
WASHINGTON, ----------1889.

SIR:

It is intended to make the vital statistics of the United States for the census year beginning June 1, 1889, as comprehensive as possible, and to this end it is especially desired to obtain complete and reliable returns of deaths occurring in each city during the year.

In cities where an accurate system of registration of deaths, based upon certificates of attending physicians, is employed, a transcript of the city records, or of the certificates of the physicians, may prove satisfactory and desirable for the use of this office in compiling the returns of deaths. I therefore address you for the purpose of ascertaining if a complete and reliable record of deaths is kept by your city authorities, and, if so, the name of the officer of your city having charge of such record.

I shall esteem it a great favor if you will kindly advise me on this point, or refer this letter to the proper officer to render the information.

An addressed official envelope, which requires no stamp, is inclosed for your reply, and an early response will be highly appreciated.

Very respectfully,

Superintendent of Census.

Where the reply indicated the maintenance of a system of registration, considered complete and reliable, the following letter was sent to the proper official:

DEPARTMENT OF THE INTERIOR,
CENSUS OFFICE,
WASHINGTON, ----------1889.

SIR:

I understand that your city has a complete system of registration of deaths, but am not fully advised as to just what information your records may afford.

It may be that a transcript of your records will prove satisfactory and desirable for the use of this office in compiling the returns of deaths occurring in the United States during the census year. To determine this, however, it is essential that I should know how far your returns will afford the information desired for that purpose.

I inclose a sheet containing the headings which show the information called for by the regular schedule of deaths as used in the census enumeration, and will appreciate the favor if you will have the kindness to check thereon the items, point by point, which can be furnished from either the original certificates returned by the physicians or the records kept by your city.

If you will kindly check opposite each item on the accompanying sheet those which can be obtained from your records, and return the same to me in the return envelope, I shall esteem it a great favor.

How many deaths were recorded for the year ending May 31, 1890?

Very respectfully,

Superintendent of Census.

The check list referred to also requested that a blank form of certificate or return used be transmitted with the reply.

The replies to these inquiries indicated, primarily, the data accessible and the probable completeness of the record in each locality, the sufficiency of the data being determined by the form of certificate or return and the list of items required by the census schedule, as checked.

This correspondence developed the fact that there were almost as many differences in the forms employed and the manner of securing and recording the deaths as there were places registering them.

A few of the most comprehensive forms sent to this office have been selected and are reproduced, on a reduced scale, below.

The following form seems to have been generally used throughout the state of Connecticut.

BUREAU OF VITAL STATISTICS. STATE OF CONNECTICUT.

CERTIFICATE OF DEATH.

To be returned to the registrar of the town in which the death occurred, as the law directs.

I certify the following return to be correct, from the best information which I can obtain:

That (*a*)_____name in full was_____
Maiden name, if wife or widow_____
Place of death, No._____street,_____ward, town of_____
Number of families, if tenement house_____. Duration of disease_____
Date of death_____. Residence at time of death_____
Sex_____. Color_____. Race (*b*)_____. Occupation_____
Age_____years,_____months,_____days.
Condition (*c*)_____, if a wife or widow. Husband's name_____
Birthplace_____town,_____state or country.
Father's name_____. Mother's name_____
Birthplace of father_____, mother_____
Cause of death: {Primary_____ / Secondary_____}
Signature of physician_____
Dated at_____this_____day of_____189____.

a Insert his or her.
b If other than white: (A.) African; (M.) Mulatto; (I.) Indian. If other races, specify what.
c Single, married, or widowed.

[BE VERY PARTICULAR TO FILL ALL BLANKS.]

The following form was used in New Hampshire.

STATE OF NEW HAMPSHIRE.

CERTIFICATE OF DEATH.

Name_____
Place and date of death_____
Sex_____. Color_____. Single, Married, or Widowed:_____ Age: Years_____ Months_____ Days_____
Occupation_____. Place of birth_____
Disease or cause of death_____
Name of father_____
Maiden name of mother_____
Birthplace of father_____, mother_____
Occupation of father_____.
_____M. D.
Date of burial_____188____.
Place of burial_____Cemetery. _____Undertaker.

The following form was used in a number of cities.

No. of corresponding entry in register book of deaths to be inserted here by the sexton.

CERTIFICATE OF DEATH.

The undertaker should secure the complete filling out of the first portion of this certificate by the head of the family or other responsible friend, and should then obtain the medical certificate from the attending physician.

FAMILY.

In the city of _____.

1. Full name of deceased (if an infant not named, give parents' names) _____
2. Age _____ years, _____ months, _____ days. Color (race, if other than the white) _____
3. Single, married, widowed (cross out words not required in this line). 4. Occupation _____
5. Birthplace (and state or country) _____. (How long in the United States, if of foreign birth) _____
6. Father's name and birthplace _____ (state or country) _____
7. Mother's name and birthplace _____ (state or country) _____
8. Place of death (if an institution, state its name) _____. (How long resident here) _____
(If dying away from home, give home residence here) _____
9. Date and hour of death: Died on the _____ day of _____, 188—, at about _____ m.
10. I hereby report this death and certify that the foregoing statements are true according to the best of my knowledge.
(Signature and residence of reporter) _____

MEDICAL.

11. I hereby certify that I attended the deceased from _____, 188—, to _____, 188—; that I last saw h _____, 188—; that _____ died on the _____ day of _____, 188—, about _____ o'clock ___ m., and that to the best of my knowledge and belief the cause of _____ death was as hereunder written:

Cause or Causes of Death.	Duration of disease in years, months, days, or hours. (a)
Chief and determining _____	
Contributing _____	
Sanitary observation _____	

a The duration of each disease, when given, is reckoned from its commencement until death.

Instructions.—Under "Cause or causes of death" insert remote, immediate, and concurring causes. For instance, insert "measles and pneumonia", or "difficult labor, peritonitis, and septicæmia", or "scarlet fever, nephritis, dropsy, and coma", in cases presenting these phenomena.

☞ If the true cause of death is not certainly known, insert name of symptoms with a cross, thus: "Convulsions and coma +; paralysis of the heart +", etc.

_____

Witness my hand this _____ day of _____, 188—.

No. of burial permit _____. (Signature) _____, M. D.

Place of burial _____.

Date of burial _____. Residence _____

Name and residence of undertaker _____.

The following form was also used by the state boards of health in Iowa and Kansas.

PHYSICIAN'S CERTIFICATE OF DEATH.—Issued by state board of health.

State of Illinois, *Cook county.* The physician who attended any person in a last illness should immediately return this certificate, accurately filled out, to the county clerk, if the party deceased died outside the limits of the city of Chicago; all deaths inside the city limits should be returned on these blanks to the City Board of Health.

1. Name _____.
2. Sex _____. Color _____.
3. Age _____ years, _____ months, _____ days.
4. Occupation _____.
5. Date of death _____ M.
6. Single, married, widower, widow. (a)
7. Nationality and place where born _____
8. How long resident in this State _____
9. Place of death (b) _____ street, _____ ward or town.
10. Cause of death (c) _____. Complications _____
_____. Duration of complications. _____
11. Duration of disease _____.
12. Place of burial _____
13. Name of undertaker _____
14. Dated at _____ 18—. _____ M. D.
Residence _____

a Erase such of these as are not required. b City—Number, street, and ward; same in towns that have them; township or precinct. c State primary and immediate cause of death, and examine the list of diseases printed on cover of this book, and law pertaining to coroner's inquests.

The following form was used in Minnesota.

[FORM II. Vital Statistics.] State board of health of Minnesota.

Clerks and health officers will insist that the blanks of this form are all filled, or return them for correction. If for any reason one or more can not be filled insist that the reason be stated on the report.

REPORT OF A DEATH.

This form to be filled and returned to the clerk of township and the health officers of villages or cities (see exception for cities of over 100,000 inhabitants, section 1 of law) within ten days after the death to which it relates, under penalty of not more than twenty (20) dollars, by parents of their children; by every householder of every death occurring in his household; by the oldest person next of kin of the death of his kindred; by the keeper or other proper officer of every workhouse, poorhouse, reform school, jail, prison, hospital, asylum, or other public or charitable institution, of any death occurring among persons under his charge. (Sec. 2.) Any physician having attended a person during his last illness shall, within ten (10) days, furnish this certificate to the clerk or health officer, as the case may be, under penalty of twenty-five (25) dollars. (Sec. 3.) Chapter 114, Laws of 1887. (Chapter 96, newspaper supplement.)

Place and date of death _____

Name of deceased _____. Occupation _____

Place of birth _____. Age _____ years, _____ months, _____ days.

Sex _____. Color _____. Condition (single, married, or widowed) _____

Father's name _____. Where born _____

Mother's name _____. Where born _____

Disease, or cause of death _____

Name and address of attending physician _____

Date of this return _____

Signature of person making this return _____

The following form was used in the smaller cities and towns in Massachusetts, and a separate certificate by the attending physician, as to the disease or cause of death and duration of sickness, is also required. Each of the larger cities in the state appears to have an individual form, amplified from the same, for local use.

COMMONWEALTH OF MASSACHUSETTS.

No. _____

RETURN OF A DEATH.

To the clerk of the town in which the death occurred.

1. Date of death	
2. Name	
Maiden name (*a*)	
Name of husband (*a*)	
3. Sex, and whether single, married, or widowed.	
4. Color (*b*)	
5. Age	_____ Years, _____ Months, _____ Days.
6. Disease or cause of death	
Duration of sickness	
By whom certified	
7. Residence	
8. Occupation	
9. Place of death	
10. Place of birth	
11. Name of father	
12. Name of mother	
13. Birthplace of father	
14. Birthplace of mother	
15. Place of interment	
Signature of undertaker or other person making the return.	

Dated at _____, on _____ 18 .

a If a married woman or widow.

b If other than white. (M.) Mulatto. (I.) Indian. If of other races, specify what.

[BE VERY PARTICULAR TO FILL ALL BLANKS.]

The forms given above are samples of the more complete forms sent in, and the data required in different places ranges from these to the following:

REPORT OF DEATH.

Date of death, _____, 18__. Ward, _____

Street, _____. No., _____. Name, _____

Age, _____. Sex, _____. Color, _____. Nativity, _____

Cause of death: Primary, _____.
Secondary, _____.

Name of physician, _____, M. D.

This is a sample of the data required in many places, and in some cases only the name and cause of death is reported.

Without going into the questions of uniformity in legislation, of the practical enforcement of the same, of the time and manner of collecting information, or of the primary responsibility for making the return, there must be mentioned three features which have greatly complicated the work of compilation in this office and diminished the value of the figures for comparative purposes, and which seem also to be of much importance to local officers for their own uses. These are:

1. Omission of certain essential facts from the form of return.
2. Failure to state certain facts which are called for by the form of return employed.
3. Discrepancy between facts stated in the return and those recorded in the office book or register.

These will be considered in the reverse of the order stated above.

It appears to be the general practice to record death certificates as received in a book or register kept for that purpose for convenient reference or permanency of record, after which the original returns are filed away, sent to some central office, or otherwise disposed of. This record may serve for all local purposes without going back to the original certificates; but, unfortunately for the work of this office, it has been the almost invariable experience that the book record so kept does not contain information which is contained in the original return, and that the local officers, with whom this office generally arranged for a transcript of the returns, would usually only furnish such transcript from the book record and data accepted on the basis of the facts called for by the certificate was thus furnished in a less complete form from the abbreviated record.

It seems singular that if certain facts are required in the return of deaths by the local laws or authorities that the book record should not also show them, but personal examination of such records and the frequent statement that certain details are "returned but not recorded", or "in the certificate but not in our books", etc., show that this is usually the case.

If a book record or register is kept it should specify the exact facts, item by item, contained in the original return, and no less.

The statement was also frequently made that certain items called for by the form of return used were "not generally given" or "frequently omitted", or "seldom stated", and it seems that this is partially due to the fact that when the local compilations do not extend to certain details, there is a natural tendency to overlook the omission of these in the return, and a consequent laxity on the part of physicians, undertakers, or others charged with the responsibility of making the returns, perhaps growing out of the knowledge that the details are not used locally.

The omission of certain essential facts from the form of certificate or return employed, relates to facts called for by the census schedule and essential to a comprehensive compilation of the returns from various sources for comparative purposes. The more important items very generally omitted are place of birth, birthplace of father, birthplace of mother, conjugal condition (in whole or in part), and occupation.

It will be apparent that any areas for which these items, or any of them, are not reported, can not be compared with other areas for which they may be given, so far as the influence of these factors upon death rates are concerned, but must be excluded from tables showing the same. This makes it also necessary that the corresponding items should be excluded from the population figures used, so that the labor and difficulty of making the proper distinctions in the areas represented by tables given, extends not only to the deaths returned, a comparatively small number, but also to the population work, which is enormous.

In this way and for these reasons, the advantage derived from the aggregation of small into large numbers is lost, the amount and difficulty of the work greatly increased, and the scientific value of the results diminished.

Special statements of the necessity for and use made of certain details referred to above, are made below under the form of return recommended.

It should be remembered that such data and tables as are given in this report under the head of "Registration records" or areas, are not wholly compiled from returns supplied from these sources, because in many places the schedule for reporting deaths was not withdrawn from the enumerators, whose returns were compared with those obtained from the registration records and the latter thus made much more full and complete than they would otherwise have been.

There is no national legislation upon the subject of registering deaths, specifying the data to be returned, and controlling, directing, or assisting local laws, and no national or central compilation of such data as is recorded under local laws except that made by the Census Office in its decennial reports.

This office, therefore, furnishes the only present means of aggregating the statistics obtained by local officers, and it is presumed that they are interested to as great an extent as any others in the results presented. This, too, is one of the branches of present census work which could most advantageously be performed from year to year, and the growing tendency to a permanent organization will eventually bring about this result, to the direct local advantage of officers whose statistical work is now limited.

The scientific value and usefulness of the mortality statistics issued by this office, could be very readily and greatly enhanced if the authorities in each locality would see that certain essential features of the census compilations were provided for in the form used by them for the return of deaths.

It is probable that in some localities the forms used in a neighboring place have been adopted without special study; in others prepared to supply only information of the most general kind without thought of their having any wider usefulness, and as in some cases correspondents have indicated a willingness to adopt a specified form, or to make changes in the form used, a form for the return of deaths has been prepared and is given below, which includes details, all of which are necessary for carrying on the work of the Census Office, as shown in the present reports. For each item, where necessary, explanatory notes are given, to make plain the reasons for the same, and its uses.

It will be understood that this does not in any sense limit a form to the exact data specified. Any additional matter required for local purposes can be inserted.

FORM RECOMMENDED.

RETURN OF A DEATH.

1. Name_____ 2. Color_____ 3. Sex_____

4. Date of death: Year____ Month____ Day____ 5. Of birth: Year____ Month____ Day____ 6. Age: Years____ Months____ Days____

7. Conjugal condition_____ 8. Occupation_____

9. Place of birth (state or country)_____

10. Birthplace of father (state or country)_____

11. Birthplace of mother (state or country)_____

12. Disease, or cause of death_____

13. Place of death: City____ Street and number____ Ward____ or County____ Town (or township)____ Village____

If death occurred in a hospital or institution, give name of same, and also length of time an inmate_____ and previous residence_____

14. Place of interment_____

Date of return_____ Signature_____ (Of physician or informant.)

2. Color.—White, black (Negro and mixed), Chinese, Japanese, and Indian.

4. Date of death.—Give year, month, and day. (See also Note 5.)

5. Date of birth.—Required particularly in case of children under 1 year of age, as the census report of births is computed by adding to the living population under 1 year of age on the day of the enumeration (June 1) the number of those who were born during the year preceding, but who, as shown only by the return of deaths, died before that date. This is very important. Further, if this data were strictly reported for all of the deaths it would furnish an important factor for computing the amount of error in the age distribution of the population and furnish a check upon the ever prevailing tendency to state ages in "round numbers".

7. Conjugal condition.—Single, married, widowed, divorced, and unknown. It is important to distinguish the "divorced" from the single. In a legal sense a divorced person may be single, but for the computation of mortality and the influence of conjugal condition upon the death rates from certain causes, the distinction is important, and should be carefully maintained.

9. Place of birth.—If native born, the name of the state is sufficient. If of foreign birth, the name of the country. Some forms sent in call for "nationality", and where this is used the country of birth should also be stated. It does not seem desirable to give the particular state, city, or political subdivision of foreign countries. (See notes on nativity of parents.)

10 and 11. The birthplaces of parents are necessary to classify the deaths according to parent nativity. The proportion of persons of foreign parentage in this country, and particularly in certain localities, is so large and the difference in the death rates so considerable that this becomes an important factor. (See Note 11.)

11. Birthplace of mother. This is highly important and is extensively used in this report as best showing the influence of race characteristics and inherited tendencies. As in case of the place of birth of the individual referred to above (Note 9), some registration blanks furnished call for "nationality", and if this is construed to mean "race", it is a desirable addition, particularly in case of foreign countries having an heterogeneous population.

13. Place of death. If in a city, the street, house number, and ward should be carefully specified, and the ward designation should be verified by the registrar. In certain large cities the census data concerning deaths are compiled by "sanitary districts", which are subdivisions (generally of wards) according to sanitary conditions and other characteristic features (see special reports of this office), and which might profitably be extended to other cities, but to which the accurate location of the place of death is specially necessary. If the death occurs in a hospital or other institution, the name and location of the same (street, number, and ward) and the further information as to time an inmate and previous residence (or place from whence taken) should also be given, in order that the death may be charged or transferred to the locality to which it may be due, as it would be obviously erroneous to charge a healthy locality with all deaths occurring in some large hospital or institution situated therein. The "sanitary district" subdivision initiated by this office in New York city has been adopted by the local board of health in their subsequent compilations. In the same way deaths occurring in villages having known limits, or in rural sections such as towns or townships, should be distinguished, the name of the county being given in either case.

Generally speaking, each inquiry should receive an exact statement, and the smallest possible latitude should be left for persons to construe an inquiry differently. The use of the term "unknown" should be restricted as far as possible, and in this connection it should be remembered that failure to fill any space with a definite statement is equivalent to reporting the data called for as unknown.

It is hoped that a careful examination of the data indicated above as desirable in returns of deaths will lead to their incorporation in forms now in use, as well as in those which may hereafter be adopted. A comparison with the specimen forms of returns given will show that in most cases very slight additions will serve to make them in every way satisfactory.

One of the most important things to be borne in mind in the use of the data contained in the following tables, is the influence of what is commonly called "the law of large numbers" as affecting the correctness of ratios to be derived from them. The larger the figures, the greater is the probability that the ratio derived from them is correct; the smaller the number of observations, the greater is the possible error in the ratios derived from them, since the greater is the effect of small variations in the numbers upon these ratios. For example, in three groups of 50 persons, taken at random, it is not only possible, but quite probable, that the number of deaths during a year will be, for one group, 2; for another, 1; or, for a third, 0; representing, respectively, a mortality of 4, 2, and 0 per cent, and yet that these great differences in the ratios may really indicate nothing as to the relative healthfulness or liability to death of the members of the several groups. On the other hand, in three groups containing 50,000 persons of like distribution of age, sex, and occupation, a variation of 5 per 1,000 in the annual mortality rate would indicate that the conditions were not equally favorable to health and life in the several groups.

Whenever, therefore, an unusually large or small ratio is deduced from the figures given, the first thing to look at is the size of the numbers from which the ratio is derived, bearing in mind the rules for estimating the limit of probable or possible error, the simplest of which is, so far as regards the number of deaths in a given number of persons, to take the possible error as equal to the square root of the number of deaths.

SECTION II.

GENERAL DEATH RATES.

Table 1, Part III of this report, shows the number of deaths in the United States by states and territories, with distinction of sex, and a statement of the rates of death per 1,000 of population for the censuses of 1890, 1880, and 1870.

The total number of deaths reported as having occurred in the United States during the census year, including those reported in the Indian territory and among Indians on reservations, was 875,521, giving a death rate of 13.98 to the 1,000 of living population. Excluding deaths among Indians, the death rate was 13.94, which is lower than that given by the figures of the census of 1880, namely, 15.09; and higher than that given by the figures of the census of 1870, namely, 12.77.

These changes must not be taken as indicating any actual change in the death rate, but rather that, for a large part of the country, the enumerators' returns of the Eleventh Census are more deficient as regards the deaths than was the case in 1880. Care must also be taken not to accept the different ratios of deaths per 1,000 of population for the several states as shown in Table 1, as indicating the relative healthfulness of the several states at the time of either one of the three censuses noted. The table is merely a convenient summary of the population and the number of deaths recorded in each state, being a continuation of similar tables in preceding census reports. The figures showing the death rates per 1,000 of population for each state are in every case too small, because the calculations are based, not on the mean population of the year, that is to say, the number of persons who actually furnished this number of deaths, but upon the number of survivors at the end of the year, which is greater than that of the mean population and therefore gives a less death rate.

This method of calculation has been used:

First. Because it has been the method used in previous censuses and seemed desirable in order to permit a comparison of results;

Second. Because, on account of the varying migrations of population within the country, it is impracticable to calculate with accuracy the mean population of a single state or territory for any given year; and,

Third. Because the amount of error resulting from taking the surviving, instead of the mean, population, is so small in comparison to that caused by the errors of omission, due to a failure to record all deaths, that it would not be worth while to incur the expense of having the mean population computed; the difference in the ratio amounting in most cases to less than 0.2 of 1 per 1,000. For the great majority of the states, as has been already explained, the failure to return all the deaths which occurred during the census year makes any computation of death rates comparatively useless.

The states which had a satisfactory registration of deaths during the census year, and whose records were copied and used in the tabulations, are Connecticut, Delaware, the District of Columbia, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, and Vermont, and the deaths in these states, inclusive of stillbirths, with the death rates per 1,000 of population, are shown in the following table:

REGISTRATION STATES.	Deaths.	Death rate.
Total	242,163	20.38
Connecticut	14,470	19.39
Delaware	3,107	18.44
District of Columbia	5,955	25.85
Massachusetts	45,112	20.15
New Hampshire	7,074	18.79
New Jersey	30,344	21.00
New York	123,117	20.53
Rhode Island	7,559	21.88
Vermont	5,425	16.32

A special effort was made to secure a complete record of the deaths occurring in Alabama, but with small success, the resulting death rate being 13.81 as against 14.20 per 1,000 of population in 1880.

Excluding the above named registration states, and the 83 registration cities in other states, the number of deaths actually reported by the enumerators for the rest of the country was 426,591.

The aggregate population of the area covered by registration records is 19,659,440, and that of the area covered by the nonregistration records, or the enumerators' returns plus deaths reported by physicians, is 42,962,810.

The death rates per 1,000 of living population are shown, for each of the above mentioned classes, in the following statement:

CHARACTER OF RETURNS.	Population.	Deaths. (a)	Death rate.
Registration	19,659,440	409,125	20.81
Enumerators	42,962,810	466,396	10.86

(a) Inclusive of stillbirths.

The death rate of 20.81 per 1,000 of living population for the localities covered by registration records was lower than the rate for the registration area in 1880, namely, 22.21; but the registration record covered a much more extensive area for 1890 than it did for 1880, and in some localities in which the registration system had been but recently established it is known that there were some omissions in the returns of death. The proportion of area of rural districts, including villages and small towns, in which the death rate is always lower than in large cities, was much greater in the registration record of 1890 than it was in 1880, and these facts appear to be quite sufficient to account for the lower death rate in this area in 1890 than in 1880.

In the report on Vital Statistics of the Tenth Census (volume XI) there was given a comparison between the enumerators' returns and the registration returns for the states of Massachusetts and New Jersey, from which it was estimated that the enumerators' returns for the whole country were at that time deficient about 30 per cent in the number of deaths, and upon this basis the true mortality for the whole country was estimated at about 18 per 1,000 of living population.

The death rate for the nonregistration areas in 1880, computed from the results given by the enumerators' returns, was 13.42 per 1,000 of population, while in 1890 the same class of returns gave a death rate of only 10.86, from which it follows that either the healthfulness of the country must have decidedly increased or that the enumerators' returns as regards deaths must have been more incomplete in the Eleventh Census than they were in 1880.

If we take the registration states together for the census year ending May 31, 1890, and compare the mortality in the rural and urban populations, we find that in a population of 7,180,144 in the cities there occurred 168,564 deaths, giving a death rate of 23.48 per 1,000; while in the rural districts of the same states, with a population of 4,701,186, the number of deaths was 73,599, giving a death rate of 15.66 per 1,000. These figures for the cities are probably very nearly accurate; for the rural districts, for reasons given above, they are a little too low. The actual death rate in the rural districts was probably 16 per 1,000.

The death rate in the nonregistration area, including all the western and southern states, was certainly lower than it was in the registration area, partly because, in the western states especially, there was an unusual proportion of adults of the ages having a comparatively low death rate; while in the eastern states, which compose the registration area, there is a greater proportion of old people, who have a comparatively high mortality. Upon the whole it seems probable that the death rate for the whole country in 1890 was about the same that it was in 1880, namely, about 18 per 1,000.

The only form of epidemic disease, which tended to increase in an unusual manner the number of deaths during the census year was the epidemic of influenza which prevailed during the winter of 1889–1890, but, on the other hand, diphtheria was decidedly less prevalent in 1890 than it was in 1880, so that the census year 1889–1890 was probably a fair average year as regards mortality.

The following table gives a comparison of the probable mortality in the United States in 1880 and 1890, namely, 18 per 1,000, with the death rates of some other countries for the same years, as given in the reports of the registrar-general of England for 1882 and 1892, respectively:

COUNTRIES.	DEATH RATE.		COUNTRIES.	DEATH RATE.	
	1890	1880		1890	1880
United States	18.0	18.0	Hungary	32.4	37.3
United Kingdom	19.4	20.4	Switzerland	20.9	21.9
England and Wales	19.5	20.5	German Empire	24.4	26.0
Scotland	19.7	20.5	Prussia	24.0	25.5
Ireland	18.2	19.8	The Netherlands	20.5	23.5
Denmark	19.0	20.4	Belgium	20.6	22.3
Norway	17.8	15.9	France	22.5	22.8
Sweden	17.1	18.1	Italy	26.4	30.8
Austria	29.4	29.8			

It will be seen from the preceding table that the death rates were less in 1890 than in 1880 in every country named except Norway.

The conclusions to be drawn from this comparison are substantially the same as those given in the report for the Tenth Census, namely, that the death rate of the United States compares favorably with that of all other civilized countries; "but that nevertheless our mortality rate is not as low as it should be, especially if we take into consideration the fact that our population has been largely added to by the immigration of persons of those ages which have the lowest death rates". At present the average annual mortality rate for the whole country should not exceed 16, or, at the utmost, 16.5 per 1,000. In other words, 100,000 deaths occurred during the census year which were in one sense unnecessary and preventable.

SECTION III.

SEX IN RELATION TO DEATHS.

Of the total number of deaths reported, 464,330 were of males and 411,191 were of females, being in the proportion of 886 females to each 1,000 males. In 1880 this proportion was 931 females to each 1,000 males. In England and Wales in 1890 the deaths included 290,488 males and 271,800 females, being 936 females to each 1,000 males.

The following table shows for each of the registration states, and for their sum, the living population at the end of the census year, the number of deaths, and the death rate per 1,000 of population, with distinction of sex; the death rates being calculated from the population found on June 1, 1890, and not from the mean population for the year, for reasons given above:

REGISTRATION STATES.		Population.	Deaths.	Death rate.
Total		11,881,330	242,163	20.38
Males		5,874,034	126,507	21.54
Females		6,007,296	115,656	19.25
Connecticut	Males	369,538	7,532	20.38
	Females	376,720	6,938	18.42
Delaware	Males	85,573	1,652	19.31
	Females	82,920	1,455	17.55
District of Columbia	Males	109,584	3,171	28.94
	Females	120,808	2,784	23.04
Massachusetts	Males	1,037,709	22,739	20.91
	Females	1,151,234	22,373	19.43
New Hampshire	Males	186,566	3,560	19.08
	Females	189,964	3,514	18.50
New Jersey	Males	720,819	16,072	22.30
	Females	724,114	14,272	19.71
New York	Males	2,976,893	65,303	21.94
	Females	3,020,960	57,814	19.14
Rhode Island	Males	168,025	3,821	22.74
	Females	177,481	3,738	21.06
Vermont	Males	169,327	2,657	15.69
	Females	163,095	2,768	16.97

It will be seen from this table that in the aggregate, and also in each state except Vermont, the death rate was higher for males than for females, the average mortality having been for males 21.54 and for females 19.25 per 1,000 living of the corresponding sex. In England and Wales the corresponding death rates for 1890 were for males 20.8 and for females 18.3.

The only two states in which we can compare these data for 1890 with corresponding data for 1880 are Massachusetts and New Jersey, the figures for which for 1880 are shown in Table XIII, volume XII, pages 176–179.

It will be seen from this that the death rate per 1,000 of male population in 1880 in Massachusetts was 19.10; in 1890 it was 20.91. In New Jersey in 1880 it was 17 per 1,000, and in 1890 it was 22.30.

The death rates per 1,000 of female population were in Massachusetts, in 1880, 18.10; in 1890, 19.43; in New Jersey, in 1880, 15.70; in 1890, 19.71.

The excessive death rate of males occurs chiefly at the earlier ages, as will be seen in the section on age in relation to deaths.

Of 112,599 deaths reported among the colored population in 1890, 57,147 were males and 55,412 were females, being in the proportion of 970 females to each 1,000 males. In 1880 the proportion was 1,017 females to each 1,000 males.

In addition to those causes of death which are peculiar to females, such as childbirth, abortion, and diseases of the female organs of generation, an excessive proportion of deaths among females is reported from the following causes, namely: diphtheria, whooping cough, old age, consumption, cancer and tumor, anæmia, dropsy, bronchitis, peritonitis, and burns and scalds.

An excessive proportion of deaths among males as compared with females is reported from the following causes, namely: typhoid fever, venereal diseases, alcoholism, premature birth and stillbirths, diabetes, tetanus, hernia; diseases of the liver; diseases of the kidneys, including Bright's disease; diseases of the urinary system; diseases of the bones and joints; diseases of the skin; and accidents and injuries, including suicides.

The following table shows for the United States and for 271 registration cities the proportion of deaths of males to each 1,000 deaths of females from each of certain specified causes, at all ages, and for those under 5 years of age.

CAUSES.	PROPORTION OF MALE TO 1,000 FEMALE DEATHS.			
	United States.		271 cities.	
	All ages.	Under 5 years.	All ages.	Under 5 years.
Alcoholism	5,593	.....	3,431	.....
Suicides	3,583	.....	3,561	.....
Accidents and injuries	3,331	1,346	3,317	1,351
Diseases of the urinary organs	1,383	1,453	1,380	1,412
Tetanus and trismus	1,585	1,424	1,552	1,393
Venereal diseases	1,416	1,247	1,293	1,219
Stillborn	1,414	1,414	1,395	1,395
Pleurisy	1,393	1,474	1,552	1,511
Diseases of the bones and joints	1,361	1,332	1,550	1,634
Pneumonia	1,266	1,196	1,249	1,166
Enteric fever (typhoid)	1,259	1,133	1,369	1,284
Diseases of the respiratory system	1,195	1,192	1,172	1,158
Croup	1,185	1,211	1,179	1,193
Diseases of the nervous system	1,178	1,221	1,173	1,224
Diseases of the digestive system	1,135	1,242	1,070	1,227
Diarrheal diseases	1,114	1,179	1,062	1,176
Paralysis and apoplexy	1,108	1,142	1,019	987
Heart disease and dropsy	1,077	1,305	1,042	1,235
Malarial fever	1,075	1,070	1,031	1,084
Infanticide	1,048	1,048	1,000	1,000
Scrofula and tabes	1,010	1,207	1,037	1,109
Bronchitis	1,000	1,132	981	1,104
Measles	986	1,081	1,006	1,018
Scarlet fever	968	1,046	951	939
Diphtheria	945	1,057	967	1,072
Consumption	918	1,050	1,135	1,113
Whooping cough	829	847	801	820
Peritonitis	730	1,208	697	1,325
Cancer	601	1,116	518	1,333

It will be seen from this table that for the age group under 5 years the proportion of deaths of males in the United States was greater than that of females for each of the causes named, with the exception of whooping cough, in which, as usual, the proportion of deaths was decidedly greater among the females.

The relations of sex to certain causes of death as shown in the death rates due to these causes, and also its relations to birth rates, will be discussed in a subsequent part of this report.

SECTION IV.

RELATIONS OF AGE TO DEATHS.

The age distribution of the population furnishing the deaths is the most important factor to be considered in studying the gross death rates of different localities, or the mortality from different diseases or of different races; and the proportions of the living population at each age, or in each age group pertaining to the particular locality or subject under consideration, should be constantly kept in view.

In Section XIV, which treats of the ages of the living population, certain deficiencies are indicated in the returns of the population, particularly of children, amounting, approximately, to 25 per cent of those reported as under 1, and 15 per cent of those under 5 years of age.

This deficiency in the population reported causes the death rates given for children, particularly those of the ages specified, to be proportionally too high. This applies to rates given in which those ages constitute factors, in this and in all other parts of the report on Mortality and Vital Statistics, and should be borne in mind.

Tables 4 to 13, inclusive, of Part III of this report, show for the United States, for each state and territory, for each state group in the registration states, for the total registration area and some of its subdivisions, and for the Chinese and Indians, the number of deaths reported as having occurred during the census year at each year of age under 5, and in each quinquennial age group for those of 5 years of age and over, with distinction of causes of death and of sex; and Tables 14 and 15, of Part III, give the same information for the United States and for each grand division with further distinction of color, nativity, and parental nativity, but by decennial instead of quinquennial age groups for ages over 15.

Table 10 gives the death rates per 1,000 of population in each of certain age groups during the census year in the registration states, the cities in the registration states, the rural districts in the registration states, the cities in New Jersey, with distinction of sex, color, nativity, parental nativity, and birthplaces of mothers. In the calculation of these rates the stillbirths have been included among the deaths.

The following table shows for the registration area and some of its subdivisions, the population June 1, 1890, in each of certain age groups, the number of deaths, excluding stillbirths, reported as having occurred during the census year in each of the same age groups, and the corresponding death rates, with distinction of sex and color.

SEX AND COLOR.	AGES.							
	All ages.	Under 1 year.	Under 5 years.	5 to 15 years.	15 to 45 years.	45 to 65 years.	65 years and over.	Unknown.
REGISTRATION AREA.								
Population	19,659,440	421,750	2,003,748	3,736,084	10,125,345	2,885,322	849,174	59,767
Deaths	386,212	86,790	133,778	21,023	98,101	64,013	67,080	2,127
Rate	19.65	205.79	66.76	5.63	9.70	22.19	78.99	35.59
Males:								
Population	9,801,662	213,696	1,011,959	1,873,603	5,042,226	1,435,687	400,480	37,707
Deaths	203,651	47,724	71,972	10,488	52,104	35,167	32,091	1,229
Rate	20.78	223.33	71.12	5.60	10.33	24.49	81.63	32.59
Females:								
Population	9,857,778	208,054	991,789	1,862,481	5,083,119	1,449,635	448,694	22,060
Deaths	182,561	39,066	61,806	10,535	46,087	28,846	34,389	898
Rate	18.52	187.77	62.32	5.66	9.07	19.90	76.64	40.71
White:								
Population	18,704,505	403,258	1,918,402	3,557,901	9,589,297	2,766,793	822,546	49,566
Deaths	357,633	80,012	123,178	19,164	89,061	60,073	64,252	1,905
Rate	19.12	198.41	64.21	5.39	9.29	21.71	78.11	38.43
Males—								
Population	9,331,796	204,488	960,647	1,787,214	4,777,227	1,376,363	389,697	31,648
Deaths	188,803	44,148	66,465	9,606	47,263	32,956	31,417	1,066
Rate	20.23	215.90	68.55	5.37	9.89	23.94	80.62	34.63
Females—								
Population	9,372,709	198,770	948,755	1,770,687	4,812,070	1,390,430	432,849	17,918
Deaths	168,830	35,864	56,713	9,558	41,798	27,117	32,835	809
Rate	18.01	180.43	59.78	5.40	8.69	19.50	75.86	45.15
Colored:								
Population	954,935	18,492	85,346	178,183	536,048	118,529	26,628	10,201
Deaths	28,579	6,778	10,600	1,859	9,130	3,940	2,828	222
Rate	29.93	366.54	124.20	10.43	17.03	33.24	106.20	21.76
Males—								
Population	469,866	9,208	42,312	86,389	264,999	59,324	10,783	6,059
Deaths	14,848	3,576	5,507	882	4,841	2,211	1,274	133
Rate	31.60	388.36	130.15	10.21	18.27	37.27	118.15	21.95
Females—								
Population	485,069	9,284	43,034	91,794	271,049	59,205	15,845	4,142
Deaths	13,731	3,202	5,093	977	4,289	1,729	1,554	89
Rate	28.31	344.89	118.35	10.64	15.82	29.20	98.08	21.49

POPULATION, DEATHS, AND DEATH RATES—Continued.

SEX AND COLOR.	AGES.							
	All ages.	Under 1 year.	Under 5 years.	5 to 15 years.	15 to 45 years.	45 to 65 years.	65 years and over.	Unknown.
REGISTRATION CITIES.								
Population	14,958,254	337,302	1,577,379	2,848,371	7,947,534	2,045,805	490,505	48,600
Deaths	314,119	76,554	117,951	17,448	83,194	51,257	42,756	1,513
Rate	21.00	226.96	74.78	6.13	10.47	25.05	87.16	31.13
Males:								
Population	7,430,811	170,772	795,750	1,421,086	3,943,629	1,019,305	220,572	30,469
Deaths	166,513	42,010	63,396	8,695	44,789	28,581	20,179	873
Rate	22.41	246.00	79.67	6.12	11.36	28.04	91.48	28.65
Females:								
Population	7,527,443	166,530	781,629	1,427,285	4,003,905	1,026,500	269,993	18,131
Deaths	147,606	34,544	54,555	8,753	38,405	22,676	22,577	640
Rate	19.61	207.43	69.80	6.13	9.59	22.09	83.62	35.30
White:								
Population	14,085,466	320,590	1,500,620	2,687,624	7,451,724	1,938,387	467,907	39,004
Deaths	287,024	70,081	107,836	15,707	74,463	47,510	40,193	1,315
Rate	20.38	218.60	71.86	5.84	9.99	24.51	85.90	33.71
Males—								
Population	7,003,486	162,448	757,649	1,343,460	3,699,997	965,892	211,736	24,752
Deaths	152,485	38,609	58,158	7,871	40,133	26,478	19,040	755
Rate	21.77	237.67	76.76	5.86	10.85	27.41	89.92	30.50
Females—								
Population	7,081,980	158,142	742,971	1,344,364	3,751,727	972,495	256,171	14,252
Deaths	134,589	31,472	49,678	7,836	34,330	21,032	21,153	560
Rate	19.00	199.01	66.86	5.83	9.15	21.63	82.57	39.29
Colored:								
Population	872,788	16,712	76,759	160,547	495,810	107,418	22,658	9,596
Deaths	27,095	6,473	10,115	1,741	8,731	3,747	2,563	198
Rate	31.04	387.33	131.78	10.84	17.61	34.88	113.12	20.63
Males—								
Population	427,325	8,324	38,101	77,626	243,632	53,413	8,836	5,717
Deaths	14,078	3,401	5,238	824	4,656	2,103	1,139	118
Rate	32.94	408.58	137.48	10.62	19.11	39.37	128.90	20.64
Females—								
Population	445,463	8,388	38,658	82,921	252,178	54,005	13,822	3,879
Deaths	13,017	3,072	4,877	917	4,075	1,644	1,424	80
Rate	29.22	366.24	126.16	11.06	16.16	30.44	103.02	20.62
REGISTRATION STATES.								
Population	11,881,330	241,828	1,157,629	2,213,091	5,980,195	1,880,319	620,770	29,326
Deaths	231,130	48,530	74,619	11,812	56,065	49,094	47,551	989
Rate	19.45	200.68	64.46	5.34	9.38	21.32	76.60	33.72
Males:								
Population	5,874,034	122,533	583,785	1,114,050	2,941,254	922,275	295,220	17,450
Deaths	120,027	26,670	40,157	5,934	28,994	21,248	23,115	579
Rate	20.43	217.66	68.79	5.33	9.86	23.04	78.30	33.18
Females:								
Population	6,007,296	119,295	573,844	1,099,041	3,038,941	958,044	325,550	11,876
Deaths	111,103	21,860	34,462	5,878	27,071	18,846	24,436	410
Rate	18.49	183.24	60.05	5.35	8.91	19.67	75.06	34.52
White:								
Population	11,609,222	236,350	1,132,864	2,161,874	5,831,857	1,844,006	611,304	27,317
Deaths	223,665	46,585	71,684	11,292	53,930	39,056	46,747	956
Rate	19.27	197.10	63.28	5.22	9.25	21.18	76.47	35.00
Males—								
Population	5,741,778	119,810	571,721	1,089,024	2,869,381	904,067	291,189	16,396
Deaths	116,207	25,671	38,606	5,686	27,918	20,682	22,756	559
Rate	20.24	213.93	67.53	5.22	9.73	22.88	78.15	34.09
Females—								
Population	5,867,444	116,540	561,143	1,072,850	2,962,476	939,939	320,115	10,921
Deaths	107,458	20,954	33,078	5,606	26,012	18,374	23,991	397
Rate	18.31	179.80	58.95	5.23	8.78	19.55	74.94	36.35
Colored:								
Population	272,108	5,478	24,765	51,217	148,338	36,313	9,466	2,009
Deaths	7,465	1,945	2,935	520	2,135	1,038	804	33
Rate	27.43	355.06	118.51	10.15	14.39	28.58	84.94	16.43
Males—								
Population	132,256	2,723	12,064	25,026	71,873	18,208	4,031	1,054
Deaths	3,820	1,039	1,551	248	1,076	566	359	20
Rate	28.88	381.56	128.56	9.91	14.97	31.09	89.06	18.98
Females—								
Population	139,852	2,755	12,701	26,191	76,465	18,105	5,435	955
Deaths	3,645	906	1,384	272	1,059	472	445	13
Rate	26.06	328.86	108.97	10.39	13.85	26.07	81.88	13.61

POPULATION, DEATHS, AND DEATH RATES—Continued.

SEX AND COLOR.	AGES.							
	All ages.	Under 1 year.	Under 5 years.	5 to 15 years.	15 to 45 years.	45 to 65 years.	65 years and over.	Unknown.
CITIES IN REGISTRATION STATES.								
Population	7,180,144	157,380	731,260	1,325,378	3,802,384	1,040,802	262,161	18,159
Deaths	159,037	38,294	58,792	8,237	41,068	27,338	23,227	375
Rate	22.15	243.32	80.40	6.21	10.80	26.27	88.60	20.65
Males:								
Population	3,503,183	79,609	367,576	661,533	1,842,657	505,893	115,312	10,212
Deaths	82,889	20,956	31,581	4,141	21,679	14,662	10,603	223
Rate	23.66	263.24	85.92	6.26	11.77	28.98	91.95	21.84
Females:								
Population	3,676,961	77,771	363,684	663,845	1,959,727	534,909	146,849	7,947
Deaths	76,148	17,338	27,211	4,096	19,389	12,676	12,624	152
Rate	20.71	222.94	74.82	6.17	9.89	23.70	85.97	19.13
White:								
Population	6,990,183	153,682	715,082	1,291,797	3,694,284	1,015,600	256,665	16,755
Deaths	153,056	36,654	56,342	7,835	39,332	26,493	22,688	306
Rate	21.90	238.51	78.79	6.07	10.65	26.09	88.40	21.84
Males—								
Population	3,413,468	77,770	359,723	645,270	1,792,151	493,506	113,228	9,500
Deaths	79,839	20,092	30,299	3,951	20,788	14,264	10,379	218
Rate	23.39	258.35	84.23	6.12	11.60	28.78	91.66	22.95
Females—								
Population	3,576,715	75,912	355,359	646,527	1,902,133	522,094	143,437	7,255
Deaths	73,217	16,562	26,043	3,884	18,544	12,229	12,309	148
Rate	20.47	218.17	73.29	6.01	9.75	23.54	85.81	20.40
Colored:								
Population	189,961	3,698	16,178	33,581	108,100	25,202	5,496	1,404
Deaths	5,981	1,640	2,450	402	1,736	845	539	9
Rate	31.49	443.48	151.44	11.97	16.06	33.53	98.07	6.41
Males—								
Population	89,715	1,839	7,853	16,263	50,506	12,297	2,084	712
Deaths	3,050	864	1,282	190	891	458	224	5
Rate	34.00	469.82	163.25	11.68	17.64	37.24	107.49	7.02
Females—								
Population	100,246	1,859	8,325	17,318	57,594	12,905	3,412	692
Deaths	2,931	776	1,168	212	845	387	315	4
Rate	29.24	417.43	140.30	12.24	14.67	29.99	92.32	5.78
RURAL PARTS OF REGISTRATION STATES.								
Population	4,701,186	84,448	426,360	887,713	2,177,811	839,517	358,600	11,167
Deaths	72,093	10,236	15,827	3,575	14,997	12,756	24,324	614
Rate	15.34	121.21	37.12	4.03	6.89	15.19	67.83	54.98
Males:								
Population	2,370,851	42,924	216,269	452,517	1,098,507	416,382	179,908	7,238
Deaths	37,138	5,714	8,576	1,793	7,315	6,586	12,512	356
Rate	15.66	133.12	39.67	3.96	6.66	15.82	69.55	49.18
Females:								
Population	2,330,335	41,524	210,160	435,196	1,079,214	423,135	178,701	3,929
Deaths	34,955	4,522	7,251	1,782	7,682	6,170	11,812	258
Rate	15.00	108.90	34.50	4.09	7.12	14.58	66.10	65.67
White:								
Population	4,619,039	82,668	417,782	870,077	2,137,573	828,406	354,630	10,562
Deaths	70,609	9,931	15,342	3,457	14,598	12,563	24,650	590
Rate	15.29	120.13	36.72	3.97	6.83	15.17	67.84	55.86
Males—								
Population	2,328,310	42,040	211,998	443,754	1,077,230	410,471	177,961	6,896
Deaths	36,368	5,539	8,307	1,735	7,130	6,478	12,377	341
Rate	15.62	131.76	39.18	3.91	6.62	15.78	69.55	49.45
Females—								
Population	2,290,729	40,628	205,784	426,323	1,060,343	417,935	176,678	3,666
Deaths	34,241	4,392	7,035	1,722	7,468	6,085	11,682	249
Rate	14.95	108.10	34.19	4.04	7.04	14.56	66.12	67.92
Colored:								
Population	82,147	1,780	8,587	17,636	40,238	11,111	3,970	605
Deaths	1,484	305	485	118	399	193	265	24
Rate	18.07	171.35	56.48	6.69	9.92	17.37	66.75	39.67
Males—								
Population	42,541	884	4,211	8,763	21,367	5,011	1,947	342
Deaths	770	175	269	58	185	108	135	15
Rate	18.10	197.96	63.88	6.62	8.66	18.27	69.34	43.86
Females—								
Population	39,606	896	4,376	8,873	18,871	5,200	2,023	263
Deaths	714	130	216	60	214	85	130	9
Rate	18.03	145.09	49.36	6.76	11.34	16.35	64.26	34.22

POPULATION, DEATHS, AND DEATH RATES—Continued.

SEX AND COLOR.	AGES.							
	All ages.	Under 1 year.	Under 5 years.	5 to 15 years.	15 to 45 years.	45 to 65 years.	65 years and over.	Unknown.
CITIES IN NONREGISTRATION STATES.								
Population	7,778,110	179,922	846,119	1,522,993	4,145,150	1,005,003	228,404	30,441
Deaths	155,082	38,260	59,159	9,211	42,126	23,919	19,529	1,138
Rate	19.94	212.65	69.92	6.05	10.16	23.80	85.50	37.38
Males:								
Population	3,927,628	91,163	428,174	759,553	2,100,972	513,412	105,260	20,257
Deaths	83,624	21,054	31,815	4,554	23,110	13,919	9,576	650
Rate	21.29	230.95	74.30	6.00	11.00	27.11	90.97	32.09
Females:								
Population	3,850,482	88,759	417,945	763,440	2,044,178	491,591	123,144	10,184
Deaths	71,458	17,206	27,344	4,657	19,016	10,000	9,953	483
Rate	18.56	193.85	65.42	6.10	9.30	20.34	80.82	47.92
White:								
Population	7,095,283	166,908	785,538	1,396,027	3,757,440	922,787	211,242	22,249
Deaths	133,968	33,427	51,494	7,872	35,131	21,017	17,505	949
Rate	18.88	200.27	65.55	5.64	9.35	22.78	82.87	42.65
Males—								
Population	3,590,018	84,078	397,926	698,190	1,907,846	472,296	98,508	15,252
Deaths	72,596	18,517	27,859	3,920	19,345	12,274	8,661	537
Rate	20.22	218.63	70.01	5.61	10.14	25.99	87.92	35.21
Females—								
Population	3,505,265	82,230	387,612	697,837	1,849,594	450,491	112,734	6,997
Deaths	61,372	14,910	23,635	3,952	15,786	8,743	8,844	412
Rate	17.51	181.32	60.98	5.66	8.53	19.41	78.45	58.88
Colored:								
Population	682,827	13,014	60,581	126,966	387,710	82,216	17,162	8,192
Deaths	21,114	4,833	7,665	1,339	6,995	2,902	2,024	189
Rate	30.92	371.37	126.52	10.55	18.04	35.30	117.94	23.07
Males—								
Population	337,610	6,485	30,248	61,363	193,126	41,116	6,752	5,005
Deaths	11,028	2,537	3,956	634	3,765	1,645	915	113
Rate	32.66	391.21	130.79	10.33	19.50	40.01	135.52	22.58
Females—								
Population	345,217	6,529	30,333	65,603	194,584	41,100	10,410	3,187
Deaths	10,086	2,296	3,709	705	3,230	1,257	1,109	76
Rate	29.22	351.66	122.28	10.75	16.60	30.58	106.53	23.85
CITIES OF 100,000 POPULATION AND UPWARD. (a)								
Population	9,697,960	227,391	1,059,637	1,844,481	5,199,410	1,280,547	285,368	28,517
Deaths	209,653	53,848	82,649	10,995	55,708	34,093	25,616	592
Rate	21.62	236.81	78.00	5.96	10.71	26.62	89.76	20.76
Males:								
Population	4,850,053	115,101	534,670	920,998	2,603,767	644,677	128,545	17,996
Deaths	112,333	29,624	44,537	5,507	30,591	19,287	12,077	334
Rate	23.16	257.37	83.30	5.98	11.75	29.92	93.95	18.56
Females:								
Population	4,847,307	112,290	524,967	923,483	2,595,643	635,870	156,823	10,521
Deaths	97,320	24,224	38,112	5,488	25,117	14,806	13,539	258
Rate	20.08	215.73	72.60	5.94	9.68	23.28	86.33	24.52
White: (b)								
Population	1,256,375	27,868	133,312	255,478	640,939	179,306	44,005	3,335
Deaths	24,195	6,031	8,748	1,138	6,070	4,466	3,722	51
Rate	19.26	216.41	65.62	4.45	9.47	24.91	84.58	15.29
Males—								
Population	617,364	14,150	67,447	127,466	311,820	88,876	19,882	1,873
Deaths	13,164	3,411	4,815	607	3,315	2,626	1,772	29
Rate	21.32	241.06	71.39	4.76	10.63	29.55	89.13	15.48
Females—								
Population	639,011	13,718	65,865	128,012	329,119	90,430	24,123	1,462
Deaths	11,031	2,620	3,933	531	2,755	1,840	1,950	22
Rate	17.26	190.99	59.71	4.15	8.37	20.35	80.84	15.05
Colored: (b)								
Population	263,394	5,290	24,853	52,523	140,936	35,054	7,853	2,175
Deaths	8,642	2,316	3,413	516	2,513	1,231	952	17
Rate	32.81	437.81	137.33	9.82	17.83	35.12	121.23	7.82
Males—								
Population	118,527	2,605	12,249	25,167	60,789	16,298	2,886	1,138
Deaths	4,285	1,228	1,785	236	1,210	656	388	10
Rate	36.15	471.40	145.73	9.38	19.90	40.25	134.44	8.79
Females—								
Population	144,867	2,685	12,604	27,356	80,147	18,756	4,967	1,037
Deaths	4,357	1,088	1,628	280	1,303	575	564	7
Rate	30.08	405.21	129.17	10.24	16.26	30.66	113.55	6.75

a The 28 principal cities.

b Sum of St. Louis, Baltimore, New Orleans, Washington, and Louisville.

POPULATION, DEATHS, AND DEATH RATES—Continued.

SEX AND COLOR.	AGES.							
	All ages.	Under 1 year.	Under 5 years.	5 to 15 years.	15 to 45 years.	45 to 65 years.	65 years and over.	Unknown.
METROPOLITAN DISTRICT.								
Population	3,302,971	78,989	363,672	623,501	1,758,596	452,893	97,359	6,860
Deaths	81,300	20,881	32,456	3,844	21,218	14,274	9,407	101
Rate	24.61	264.35	89.25	6.16	12.07	31.52	96.62	14.72
Males:								
Population	1,632,981	40,043	182,585	312,667	863,553	226,039	44,299	3,838
Deaths	43,460	11,387	17,418	1,965	11,776	7,842	4,392	67
Rate	26.61	284.37	95.40	6.28	13.64	34.69	99.14	17.46
Females:								
Population	1,669,990	38,946	181,087	310,834	895,043	226,854	53,060	3,022
Deaths	37,840	9,494	15,038	1,879	9,442	6,432	5,015	34
Rate	22.66	243.77	83.04	6.04	10.55	28.35	94.52	11.25
White:								
Population	3,240,607	77,948	359,259	615,316	1,723,664	445,826	95,985	6,557
Deaths	79,565	20,416	31,787	3,752	20,639	14,040	9,270	98
Rate	24.51	261.92	88.48	6.10	11.97	31.42	96.67	14.95
Males—								
Population	1,605,348	39,518	180,403	303,596	846,327	222,569	43,788	3,665
Deaths	42,533	11,125	17,045	1,917	11,453	7,707	4,347	64
Rate	26.49	281.52	94.48	6.31	13.53	34.63	99.27	17.46
Females—								
Population	1,641,259	38,430	178,856	306,720	877,337	223,257	52,197	2,892
Deaths	37,032	9,291	14,742	1,835	9,186	6,303	4,932	34
Rate	22.56	241.76	82.42	5.98	10.47	28.23	94.49	11.76
Colored:								
Population	56,364	1,041	4,413	8,275	34,932	7,067	1,374	303
Deaths	1,735	465	669	92	579	204	128	3
Rate	30.78	446.69	151.60	11.12	16.58	37.36	93.16	9.90
Males—								
Population	27,633	525	2,182	4,071	17,226	3,470	511	173
Deaths	927	262	373	48	323	135	45	3
Rate	33.55	499.05	170.94	11.79	18.75	38.90	88.06	17.34
Females—								
Population	28,731	516	2,231	4,204	17,706	3,597	863	130
Deaths	808	203	296	44	256	129	83	.....
Rate	28.12	393.41	132.68	10.47	14.46	35.86	96.18	.....

The following table gives a summary of the death rates contained in the preceding tables, for the registration area and its subdivisions, with distinction of sex, color, and of certain age groups:

AREAS.	UNDER 5 YEARS.		5 TO 15 YEARS.		15 TO 45 YEARS.		45 TO 65 YEARS.		65 YEARS AND OVER.	
	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.
Registration area	64.21	124.20	5.39	10.43	9.29	17.03	21.71	33.24	78.11	106.20
Males	68.55	130.15	5.37	10.21	9.89	18.27	23.94	37.27	80.62	118.15
Females	59.78	118.35	5.40	10.64	8.69	15.82	19.50	29.20	75.86	98.08
Cities	71.86	131.78	5.84	10.84	9.99	17.61	24.51	34.88	85.90	113.12
Males	76.76	137.48	5.86	10.62	10.85	19.11	27.41	39.37	89.92	128.90
Females	66.86	126.16	5.83	11.06	9.15	16.16	21.63	30.44	82.57	103.02
States	63.28	118.51	5.22	10.15	9.25	14.39	21.18	28.58	76.47	84.94
Males	67.53	128.56	5.22	9.91	9.73	14.97	22.88	31.09	78.15	89.06
Females	58.95	108.97	5.23	10.39	8.78	13.85	19.55	26.07	74.94	81.88
Cities	78.79	151.44	6.07	11.97	10.65	16.06	26.09	33.53	88.40	98.07
Males	84.23	163.25	6.12	11.68	11.60	17.64	28.78	37.24	91.66	107.49
Females	73.29	140.30	6.01	12.24	9.75	14.67	23.54	29.99	85.81	92.32
Rural	36.72	56.48	3.97	6.69	6.83	9.92	15.17	17.37	67.84	66.75
Males	39.18	63.88	3.91	6.62	6.62	8.66	15.78	18.27	60.55	69.34
Females	34.19	49.36	4.04	6.76	7.04	11.34	14.56	16.35	66.12	64.26
Cities in nonregistration states	65.55	126.52	5.64	10.55	9.35	18.04	22.78	35.30	82.87	117.94
Males	70.01	130.79	5.61	10.33	10.14	19.50	25.99	40.01	87.92	135.52
Females	60.98	122.28	5.66	10.75	8.53	16.60	19.41	30.58	78.45	106.53
Cities of 100,000 population and upward(a)	65.62	137.33	4.45	9.82	9.47	17.83	24.91	35.12	84.58	121.23
Males	71.39	145.73	4.76	9.38	10.63	19.90	29.55	40.25	89.13	134.44
Females	59.71	129.17	4.15	10.24	8.37	16.26	20.35	30.66	80.84	113.55
Metropolitan district	88.48	151.60	6.10	11.12	11.97	16.58	31.42	37.36	96.67	93.16
Males	94.48	170.94	6.21	11.79	13.53	18.75	34.63	38.90	99.27	88.06
Females	82.42	132.68	5.98	10.47	10.47	14.46	28.23	35.86	94.49	96.18

a Sum of St. Louis, Baltimore, New Orleans, Washington, and Louisville.

It will be seen from the preceding table that for children under 5 years of age the average death rate among the whites per 1,000 of population was 64.21, being higher for males (68.55) than for females (59.78). It was highest of all in the metropolitan district (88.48), being for males 94.48 and for females 82.42, and lowest in the rural districts of the registration states (36.72), being for males 39.18 and for females 34.19. In every area it was higher among the males than the females.

For the colored children under 5 years of age the death rates were much higher than among the whites, and in every case higher among males than among females. For the total area the death rate among the colored children of this age group was 124.20, being for males 130.15, and for females 118.35. It was highest in the metropolitan district (151.60), being for males 170.94, for females 132.68; and lowest in the rural districts of the registration states (56.48), being for males 63.88, females, 49.36.

In the age group 5 to 15 years the death rate among the whites was 5.39 and among the colored 10.43, being slightly higher among females (white 5.40, colored 10.64) than among males (white 5.37, colored 10.21). The highest death rate in this age group among the whites occurred in the metropolitan district (6.10), and among the colored in the cities in the registration states (11.97), and the lowest in the rural districts of the registration states (whites 3.97, colored 6.69).

In the age group 15 to 45 years the death rate was lower among the whites than among the colored (white 9.29, colored 17.03), and higher among males (white 9.89, colored 18.27) than among females (white 8.69, colored 15.82). Among the whites in this age group it was highest in the metropolitan district (11.97), and among the colored in the cities in the nonregistration states (18.04). It was lowest in the rural districts of the registration states (white 6.83, colored 9.92).

In the age group 45 to 65 years the death rate was higher among the colored than among the whites, and higher among males (whites 23.94, colored 37.27) than among females (white 19.50, colored 29.20). It was highest in the metropolitan district (whites 31.42, colored 37.36) and lowest in the rural portions of the registration states (whites 15.17, colored 17.37).

Among those 65 years of age and over it was higher among the colored than among the whites, and among males (white 80.62, colored 118.15) than among females (white 75.86, colored 98.08). Among the whites it was highest in the metropolitan district (96.67), and among the colored in the cities of 100,000 inhabitants and upward (121.23). It was lowest in the rural districts of the registration states, in which it was lower among the colored (66.75) than among the whites (67.84).

For the greater part of the United States death rates to population can not be calculated by age groups because of the very incomplete character of the data with regard to deaths. In the nonregistration area, the only means of comparing the relative mortality at certain ages in different localities is by comparing the ratios derived from the number of deaths in a given age group with the number of deaths at all ages.

Gross ratios of this kind are of little scientific interest or value, because the number of deaths in infants under 1 year of age, or in any other age group, depends largely on the proportion of infants, or of persons of the particular age group in question, in the population furnishing the deaths.

If, however, we compare the number of deaths caused by a particular disease in persons of a certain age group with the total number of deaths occurring in that age group, and use the proportion thus derived in comparing either the relative liability of different localities to the action of certain causes of death, or the relative liability of persons of different age groups to the action of such causes we obtain some information of value.

Table 3, Part I, shows for each 1,000 deaths at each of certain ages or groups of ages from known causes, the number of deaths reported as due to each of certain causes or groups of causes, with distinction of sex, for the United States, for the rural districts of the United States, for the registration area, for the registration cities, for the registration states, for the cities in the registration states, and for the rural districts in the registration states.

Table 4, Part I, shows for each 1,000 deaths at known ages due to each of certain specified diseases and classes of diseases the number of deaths at each of certain ages or groups of ages, with distinction of sex, for the United States, the United States rural, the registration area, the registration cities, and the rural portion of the registration states.

The following table shows for the registration states the proportion of deaths reported as due to each of certain specified causes or groups of causes, per 1,000 deaths from all known causes, in each of certain age groups, with distinction of sex:

CAUSES.	UNDER 5 YEARS.		10 TO 15 YEARS.		20 TO 25 YEARS.		40 TO 45 YEARS.		50 TO 55 YEARS.		60 TO 65 YEARS.		70 TO 75 YEARS.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Measles, scarlet fever, and whooping cough	42.17	56.51	19.70	33.68	2.56	5.17	0.84	1.42	0.19	0.21	.....	0.79	0.18	0.57
Diphtheria and croup	82.13	85.66	158.63	172.77	9.22	13.46	3.78	3.32	1.36	2.14	0.36	1.76	0.54	0.56
Typhoid fever	1.86	2.07	72.58	86.38	99.29	61.08	24.77	19.70	13.23	14.17	7.89	7.24	5.43	4.48
Diarrheal diseases	194.73	204.51	31.10	29.28	13.34	20.70	18.69	24.21	21.40	29.62	24.37	40.88	29.49	40.88
Malarial fever	3.12	3.57	16.07	20.50	13.74	13.87	8.61	11.16	7.39	8.59	7.53	9.58	4.70	7.47
Consumption	13.79	14.28	80.87	187.41	391.29	444.72	262.86	245.43	176.30	131.57	115.95	90.16	55.91	54.88
Pneumonia	73.98	75.55	66.87	75.16	119.11	69.98	148.62	112.51	142.25	124.28	113.80	124.78	93.60	119.28
Inanition, debility, and atrophy	99.41	109.60	5.19	8.79	3.73	6.63	6.09	9.01	8.75	12.23	20.64	26.60	35.28	43.40
Cancer and tumor	0.73	0.57	2.59	2.44	5.69	5.39	22.89	95.89	45.34	116.98	53.77	105.23	45.65	71.69
Dropsy	0.54	0.49	4.67	5.86	2.75	2.07	2.52	6.41	6.42	10.95	8.78	12.52	12.67	10.83
Diseases of the nervous system	118.30	121.92	105.24	82.97	46.11	44.10	87.97	84.50	118.51	135.44	160.57	159.20	201.38	184.99
Diseases of the respiratory system, excluding pneumonia and croup.	70.17	73.95	21.77	28.79	26.10	27.12	41.57	41.30	52.14	55.16	63.62	69.43	66.76	84.19
Diseases of the digestive system	28.21	26.13	62.21	52.71	29.43	47.00	53.54	65.75	57.60	73.62	69.00	69.63	51.75	50.21
Diseases of the urinary system	4.61	3.98	25.40	19.03	25.51	40.37	66.97	74.06	87.76	77.27	95.16	65.13	104.40	49.65
Accidents and injuries	17.08	14.23	172.63	39.53	133.05	25.88	110.22	28.01	90.48	25.54	61.11	21.12	94.74	19.04

It will be seen from this table that in children under 5 years of age the greatest proportion of deaths due to the causes named was caused by diarrheal diseases, diseases of the nervous system, and the specified infectious diseases; that in the age group 20 to 25 years the greatest proportion of deaths from the causes named, was due to consumption, pneumonia, accidents and injuries, and typhoid fever; that in the age group 50 to 55 years the causes producing the greatest proportion of deaths were consumption, pneumonia, diseases of the nervous system, and accidents and injuries; while in the age group 70 to 75 years the most prominent causes of death were diseases of the nervous system, diseases of the urinary system, and pneumonia.

The relations of age to certain particular causes of death are indicated in the discussion of those causes in Section X of this report.

INFANTILE MORTALITY.

The death rates of children under 1 year of age, when accurate, furnish an important means of estimating the healthfulness and sanitary condition of different localities or of different groups of population. Such data as the census furnishes for calculating these death rates are given in Tables 1 and 2 of Part I of this report. Unfortunately, these data are incomplete and inaccurate, not only for the United States as a whole, but for all parts of the registration area. This is due to the fact that the number of children returned as being under 1 year of age is too small in every locality, owing partly to omissions in the enumeration (*a*), and partly to the tendency of those reporting the age of infants to report those who are between 9 and 12 months of age as being, in round numbers, 1 year old, which last is a defect common to the censuses of all countries.

The number of children reported as being under 1 year of age on June 1, 1890, is also one of the factors in calculating the number of births during the preceding year, the other factor being the number of children reported as born and died during the year, hence the number of births is also too small in every locality, particularly in the nonregistration area, as the deficiencies in both the enumeration of children and the return of deaths are greatest in this area.

We have no fully complete and accurate registration of births in any part of the United States. The most accurate registration is probably in Massachusetts, in which it is estimated that the deficiency is not greater than 2 per cent.

It is usual to reckon infantile mortality as being the number of deaths of infants under 1 year of age per 1,000 births during the census year. The total number of births in the United States during the census year, as found by the method of calculation above referred to, was 1,704,923, and the number of deaths of children under 1 year of age was 197,167, which would give an infantile mortality of 115.65 per 1,000 of births during the year. In these figures, the stillbirths are included in the births and deaths. If the stillbirths be excluded from the deaths and births the infantile mortality thus calculated would be 97.60. In the registration area, including stillbirths both

a See remarks under Section XIV, Ages of the living population.

in the deaths and in the births, the infantile mortality during the census year was 220.49. Excluding stillbirths from both births and deaths the corresponding rate would be 182.85.

The infantile mortality in some foreign countries has been as follows: France (1875–1882), 166.2; Belgium (1867–1883), 148.2; Netherlands (1878–1881), 193.2; Italy (1872–1883), 209.7; Switzerland (1869–1880), 195.2; Prussia (1874–1882), 207.8; Saxony (1865–1870), 270.0; Bavaria (1866–1883), 308.4; England and Wales (1866–1882), 149.2; Sweden (1866–1882), 131.9; Denmark (1870–1882), 137.5; Scotland (1865–1881), 122.0; Ireland (1865–1883), 95.9. (*a*)

For reasons above given the infantile mortality in the United States, or even in the registration area, as computed from the census figures is too high, and is not strictly comparable with the rates of foreign countries given above; but the rates in different parts of the registration area may be compared with each other as they are subject to nearly the same sources of error.

The following table shows for the United States, for the registration area and its subdivisions, and for the nonregistration area, the number of deaths of those born during the census year per 1,000 total births within the year, stillbirths being included in the deaths but not in the births, with distinction of sex, color, general nativity, and parental nativity:

SEX, COLOR, NATIVITY, AND PARENTAL NATIVITY.	United States.	REGISTRATION AREAS.						Nonregistration.
		Total.	Cities.	States.			Cities in other states.	
				Total.	Cities.	Rural.		
Total	62.30	111.42	121.52	105.41	123.96	68.66	119.37	42.80
Males	68.29	122.50	133.19	116.45	136.23	77.24	130.51	46.80
Females	55.97	99.75	109.23	93.79	111.04	59.63	107.64	38.58
White	61.90	107.06	116.63	103.46	121.40	67.91	112.11	41.46
Native born	61.12	106.14	115.65	102.44	120.32	67.27	111.32	40.83
Both parents native:								
Males	47.30	88.13	104.87	90.57	118.09	60.69	78.92	39.18
Females	38.57	71.02	85.75	72.70	96.51	46.97	64.72	32.08
One or both parents foreign:								
Males	74.58	111.54	118.95	116.28	127.80	72.60	96.10	43.74
Females	58.69	89.05	95.18	92.66	102.14	56.96	77.27	33.23
Foreign born:								
Males	97.43	92.06	98.63	84.39	92.62	62.26	107.37	105.49
Females	94.26	83.81	84.94	83.86	85.76	78.95	83.70	111.11
Colored	64.86	196.98	205.89	182.27	215.86	102.37	203.01	49.57
Males	68.91	209.48	218.18	196.04	229.25	116.88	214.99	52.65
Females	60.70	184.18	193.31	168.18	202.15	87.58	190.75	46.41

The following table shows for the United States, for the registration area and its subdivisions, and for the nonregistration area, the death rates of children under 1 year of age during the census year per 1,000 of living population under 1 year of age at the end of the census year, with distinction of sex, color, general nativity, and parental nativity:

SEX, COLOR, NATIVITY, AND PARENTAL NATIVITY.	United States.	REGISTRATION AREAS.						Nonregistration.
		Total.	Cities.	States.			Cities in other states.	
				Total.	Cities.	Rural.		
Total	125.85	260.11	290.43	246.30	303.86	139.04	278.68	76.39
Males	137.69	285.84	319.01	270.54	333.44	153.88	300.41	83.63
Females	113.51	233.69	261.11	221.41	273.57	123.71	250.19	68.80
White	126.60	249.38	278.19	241.40	297.22	137.63	260.67	74.80
Native born	124.74	246.97	275.62	238.93	294.44	135.97	258.34	73.41
Both parents native:								
Males	89.71	192.37	240.28	199.00	228.89	117.56	167.67	70.34
Females	73.31	156.97	197.23	162.69	279.88	93.89	135.64	57.24
One or both parents foreign:								
Males	158.42	264.01	287.80	280.12	317.98	145.25	212.62	76.59
Females	128.03	214.29	232.90	227.11	256.72	120.89	173.27	59.93
Foreign born:								
Males	287.38	297.99	319.70	253.46	272.73	203.32	389.15	271.23
Females	258.95	258.14	275.60	243.71	267.09	183.07	288.46	260.31
Colored	120.94	494.27	525.13	457.83	579.77	204.49	509.61	84.43
Males	123.64	538.12	570.52	502.39	631.87	233.03	553.12	90.21
Females	112.10	450.78	480.09	413.79	528.24	176.34	466.38	78.55

a Bertillon, J., Article Démographie. J. Rochard, Encyclopédie d'Hygiène. Tome 1. Paris, 1890. Page 254.

It will be seen from the preceding table that in the United States the death rate for this age group per 1,000 of population was about double the death rate per 1,000 of those born within the year, and that in the registration area the death rates of each kind were about twice as high as in the United States taken as a whole.

In the registration area the infantile mortality was decidedly higher among males (122.50) than among females (99.75). It was much higher among the colored (196.98) than among the whites (107.06). Among the whites it was higher among the native born (106.14) than it was among the foreign born (males 92.06, females 83.81), and among the native born it was higher among those having one or both parents foreign born (males 111.54, females 89.05) than it was among those of whom both parents were native (males 88.13, females 71.02).

In the registration states the infantile mortality was much higher in the cities (123.96) than it was in the rural districts (68.66). It was highest of all among the colored in the cities in the registration states (215.86), and lowest among the native whites having both parents native in the rural part of the registration states (males 60.69, females 46.97).

The following table shows for the whites in the United States, in the registration area and its subdivisions, and in the nonregistration area the proportion of deaths of those born during the census year per 1,000 total births within the year, stillbirths being included in the deaths but not in the births, with distinction of birthplaces of mothers.

BIRTHPLACES OF MOTHERS.	United States.	REGISTRATION AREAS.						Non-regis-tration.
		Total.	Cities.	States.			Cities in other states.	
				Total.	Cities.	Rural.		
United States	44.06	80.62	94.53	84.48	108.43	54.62	66.70	35.82
England and Wales	65.84	96.97	105.94	98.75	110.93	65.11	88.53	41.00
Ireland	93.45	105.24	113.93	107.30	117.60	58.37	87.08	47.65
Scotland	64.01	96.17	103.40	101.52	111.84	66.92	63.74	34.52
France	79.00	107.11	117.07	119.27	138.49	67.63	71.97	53.33
Germany	69.45	104.44	106.48	105.14	112.02	67.90	103.20	41.57
Canada	76.23	106.74	119.75	110.97	128.59	78.32	70.48	40.22
Scandinavia	46.01	79.84	81.37	90.66	98.42	70.67	68.44	31.64
Hungary	87.78	134.30	140.72	129.97	137.52	61.95	153.54	31.47
Bohemia	82.37	160.43	164.92	151.52	162.63	20.41	166.32	45.64
Italy	116.84	140.34	145.52	147.61	154.66	81.25	67.04	25.99
Other foreign countries	70.76	106.36	109.38	102.53	106.32	69.81	117.04	43.84

The following table shows for the whites in the United States, in the registration area and its subdivisions, and in the nonregistration area the death rates of children under 1 year of age during the census year per 1,000 of living population under 1 year of age at the end of the year, with distinction of birthplaces of mothers:

BIRTHPLACES OF MOTHERS.	United States.	REGISTRATION AREAS.						Non-regis-tration.
		Total.	Cities.	States.			Cities in other states.	
				Total.	Cities.	Rural.		
United States	83.84	176.75	215.66	186.88	254.76	107.10	140.86	63.87
England and Wales	143.11	233.68	261.45	240.26	278.70	139.29	202.76	75.07
Ireland	217.94	253.89	280.00	259.09	290.08	121.32	208.87	86.70
Scotland	128.98	205.92	223.32	215.50	239.73	136.21	150.23	62.94
France	174.07	258.45	291.44	284.23	344.47	134.72	187.76	101.41
Germany	156.00	264.19	278.24	282.49	309.62	142.60	231.99	75.45
Canada	168.90	253.92	295.55	262.24	316.58	167.00	185.71	75.48
Scandinavia	93.06	192.95	199.68	222.22	249.00	153.04	162.85	69.43
Hungary	181.62	310.26	328.45	306.91	329.16	122.64	325.58	42.42
Bohemia	163.17	387.46	395.77	428.57	454.55	166.67	359.85	70.33
Italy	271.55	339.20	356.65	358.91	380.54	154.20	157.68	40.69
Other foreign countries	149.55	250.92	260.27	251.27	264.35	142.86	249.93	77.91

In this table, as in the corresponding table by color and general nativity, it appears that the death rates per 1,000 of the living population under 1 year of age at the end of the year were about double the death rates per 1,000 of those born within the year, and in each class the death rates were about twice as high in the registration area as in the United States taken as a whole.

In the registration area the highest infantile mortality occurred among the children of mothers born in Bohemia (106.43), in Italy (140.34), and in Hungary (134.30), and the lowest among the children of mothers born in Scandinavia (79.84), in the United states (80.62), and in Scotland (96.17). It was a little higher among the children of mothers born in Ireland (105.24) than among the children of mothers born in Germany (104.44).

In the cities in the registration states it was highest among the children of mothers born in Bohemia (162.63), in Italy (154.06), and in France (138.49), and lowest among the children of mothers born in Scandinavia (98.42), in the United States (108.43), and in England and Wales (110.93).

The following table shows for the United States, for each state, and for the sum of the registration states, with distinction of color in the southern states, the number of births and the number of deaths under 1 year of age, each exclusive of stillbirths, for the censuses of 1890 and 1880, with the proportion of deaths under 1 year of age per 1,000 births.

STATES.	1890			1880		
	Births.	Deaths under 1 year of age.	Deaths under 1 year of age per 1,000 births.	Births.	Deaths under 1 year of age.	Deaths under 1 year of age per 1,000 births.
The United States	1,670,821	163,065	97.60	1,552,297	150,308	96.83
Registration states	270,324	48,530	179.53	242,986	31,887	131.23
Alabama	45,977	3,561	77.52	47,202	3,922	83.09
White	26,106	1,842	70.56	24,474	1,653	67.54
Colored	19,871	1,722	86.66	22,728	2,269	99.83
Arizona	1,487	79	53.13	777	54	69.50
Arkansas	38,113	2,477	64.99	33,942	3,173	93.48
White	28,371	1,958	69.01	25,282	2,297	90.86
Colored	9,742	519	53.27	8,660	876	101.15
California	23,447	2,506	106.88	20,097	1,777	88.42
Colorado	10,341	1,060	102.50	4,180	415	99.28
Connecticut	15,864	2,344	147.76	13,825	1,387	100.33
Dakota, North	6,735	464	68.89	4,479	245	54.70
Dakota, South	10,757	653	60.70			
Delaware	4,193	676	161.22	4,187	507	121.09
White	3,392	516	152.12	3,307	380	114.91
Colored	801	160	199.75	880	127	144.32
District of Columbia	5,314	1,382	260.07	5,454	1,283	235.24
White	3,245	604	186.13	3,168	549	173.30
Colored	2,069	778	376.03	2,286	734	321.08
Florida	11,079	698	63.00	9,323	566	60.71
White	6,318	358	56.66	4,857	269	55.38
Colored	4,761	340	71.41	4,466	297	66.50
Georgia	55,699	3,753	67.38	56,761	4,782	84.25
White	28,816	1,724	59.83	29,165	2,074	71.11
Colored	26,883	2,029	75.48	27,596	2,708	98.13
Idaho	2,290	111	48.47	928	46	49.57
Illinois	105,711	11,133	105.32	94,441	9,367	99.18
Indiana	55,442	3,999	72.13	59,349	5,882	99.11
Iowa	49,996	2,758	55.16	50,385	3,440	68.27
Kansas	40,193	2,420	60.21	34,694	3,385	99.57
Kentucky	54,737	4,018	73.41	56,609	4,987	88.10
Louisiana	33,082	2,953	89.26	33,160	2,893	87.24
White	16,749	1,663	99.29	15,634	1,306	83.54
Colored	16,333	1,290	78.98	17,526	1,587	90.55

BIRTHS, AND DEATHS UNDER 1 YEAR OF AGE—Continued.

STATES.	1890			1880		
	Births.	Deaths under 1 year of age.	Deaths under 1 year of age per 1,000 births.	Births.	Deaths under 1 year of age.	Deaths under 1 year of age per 1,000 births.
Maine	11,761	1,124	95.57	13,447	912	67.82
Maryland	26,965	4,115	152.61	28,769	3,988	138.62
White	20,860	3,018	144.68	21,191	2,760	130.24
Colored	6,105	1,097	179.69	7,578	1,228	162.05
Massachusetts	48,156	8,792	182.57	41,338	5,891	142.51
Michigan	51,931	4,667	89.87	45,244	3,744	82.75
Minnesota	38,975	3,626	93.03	26,181	2,016	77.00
Mississippi	38,812	2,351	60.57	42,826	3,014	70.38
White	16,416	960	58.48	17,560	1,074	61.16
Colored	22,396	1,391	62.11	25,266	1,940	76.78
Missouri	76,943	6,384	82.97	70,557	7,995	113.31
Montana	3,015	147	48.76	879	47	53.47
Nebraska	30,943	1,917	61.95	16,555	1,286	77.68
Nevada	748	47	62.83	1,374	100	72.78
New Hampshire	6,918	1,063	153.66	6,557	589	89.83
New Jersey	36,351	6,939	190.89	31,069	4,296	138.27
New Mexico	5,235	448	85.58	3,996	545	136.39
New York	139,642	25,208	180.52	126,740	16,632	131.23
North Carolina	48,386	2,998	61.96	51,371	4,587	89.29
White	31,436	1,832	58.28	30,608	2,394	78.21
Colored	16,950	1,166	68.79	20,763	2,193	105.62
Ohio	88,446	8,277	93.58	89,345	8,063	90.25
Oregon	7,058	344	48.74	4,985	298	59.78
Oklahoma	1,650	83	50.30	.....	.....	.....
Pennsylvania	135,058	13,782	102.05	124,178	11,916	95.96
Rhode Island	7,732	1,490	192.71	6,603	711	107.68
South Carolina	35,768	2,525	70.59	37,342	3,215	86.10
White	13,284	792	59.62	13,386	884	66.04
Colored	22,484	1,733	77.08	23,956	2,331	97.30
Tennessee	54,092	4,037	74.63	57,602	5,380	93.40
White	40,612	2,670	65.74	41,292	3,438	83.26
Colored	13,480	1,367	101.41	16,310	1,942	119.07
Texas	69,896	5,094	72.88	64,855	5,762	88.84
White	55,048	4,128	74.99	48,762	4,251	87.18
Colored	14,848	966	65.06	16,093	1,511	93.89
Utah	6,487	415	63.97	5,977	564	94.36
Vermont	6,154	636	103.35	7,213	591	81.94
Virginia	44,916	3,866	86.07	52,753	5,312	100.70
White	27,060	1,933	71.43	28,940	42,15	83.45
Colored	17,856	1,933	108.25	23,813	2,897	121.66
Washington	8,225	436	53.01	2,212	119	53.80
Wisconsin	45,557	3,604	79.11	39,757	3,090	77.72
West Virginia	23,200	1,501	64.70	22,215	1,498	67.43
Wyoming	1,322	68	51.44	564	36	63.83

It will be seen from this table that the infantile mortality thus calculated for the whole United States was slightly higher in 1890 (97.60) than it was in 1880 (96.83); and that it was much higher in 1890 in the sum of the registration states (179.53) than it was in the same states in 1880 (131.23). In the registration states the highest infantile mortality in 1890 occurred in Rhode Island (192.71), in New Jersey (190.89), and in Massachusetts (182.57); and the lowest in Vermont (103.35), Connecticut (147.76), and in New Hampshire (153.66). In the District of Columbia the infantile mortality among the colored was 376.03, and among the whites 186.13.

In the nonregistration states the rates are much too small for both censuses, and it is very doubtful as to how far it would be justifiable to compare the rates of one nonregistration state with those of another. The only thing that they clearly indicate is that the infantile mortality of the colored was in all cases higher than that of the whites.

The following table shows for the registration area and its subdivisions, including the cities in each registration state, the number of deaths of infants under 3 months, from 3 to 6 months, from 6 to 9 months, from 9 to 12 months, and under 1 year of age during the census year per 1,000 births, stillbirths being excluded.

AREA.	Births.	DEATHS PER 1,000 BIRTHS.				
		Total.	Under 3 months.	3 to 6 months.	6 to 9 months.	9 to 12 months.
Registration area	474,635	182.86	84.30	42.27	31.42	24.86
Males	243,528	195.97	92.54	45.10	33.29	25.05
Females	231,107	169.04	75.62	39.30	29.46	24.66
Cities	383,961	199.38	91.22	46.33	34.66	27.17
Males	197,011	213.24	99.86	49.16	36.82	27.39
Females	186,950	184.78	82.12	43.33	32.39	26.93
States	270,324	179.53	82.00	41.54	30.81	25.17
Males	138,682	192.31	90.56	44.39	31.98	25.38
Females	131,642	166.06	72.98	38.54	29.58	24.95
Cities	179,650	213.16	95.63	49.83	37.43	30.27
Males	92,165	227.37	105.22	52.72	38.88	30.55
Females	87,485	198.18	85.52	46.79	35.90	29.97
Rural	90,674	112.89	54.99	25.12	17.70	15.08
Males	46,517	122.84	61.50	27.88	18.32	15.13
Females	44,157	102.41	48.12	22.22	17.05	15.01
Cities in nonregistration states	204,311	187.26	87.35	43.24	32.24	24.44
Males	104,846	200.81	95.15	46.04	35.01	24.61
Females	99,465	172.99	79.12	40.30	29.31	24.26
Cities of 100,000 population and over	260,414	206.78	94.88	47.59	35.80	28.51
Males	133,727	221.53	104.03	50.51	38.21	28.78
Females	126,687	191.21	85.23	44.50	33.25	28.23
Metropolitan district	90,976	229.52	101.08	53.18	40.98	34.28
Males	46,783	243.40	110.49	56.05	42.15	34.71
Females	44,193	214.83	91.12	50.14	39.73	33.83
Cities in—						
Connecticut	7,147	172.10	83.39	39.60	27.98	21.13
Males	3,658	193.28	93.77	47.29	30.62	21.60
Females	3,489	149.90	72.51	31.53	25.22	20.64
Delaware	1,589	234.11	105.73	59.16	37.76	31.47
Males	827	246.67	119.71	61.67	36.28	29.02
Females	762	220.47	90.55	56.43	39.37	34.12
District of Columbia	5,314	260.07	121.94	57.02	44.98	36.13
Males	2,680	277.99	133.58	60.45	47.01	36.94
Females	2,634	241.84	110.10	53.53	42.90	35.31
Massachusetts	38,779	198.02	90.13	46.37	34.50	27.02
Males	19,827	209.81	99.21	48.32	36.11	26.18
Females	18,952	185.68	80.62	44.32	32.82	27.91
New Hampshire	2,340	200.85	78.21	55.13	35.47	32.05
Males	1,232	215.10	90.10	55.19	33.28	36.53
Females	1,108	185.02	64.98	55.05	37.91	27.08
New Jersey	22,664	225.42	104.79	52.15	38.39	30.09
Males	11,766	240.01	115.84	53.71	39.44	31.02
Females	10,898	209.67	92.86	50.47	37.25	29.09
New York	96,816	217.59	95.89	51.02	38.73	31.94
Males	49,608	232.40	105.41	54.23	40.30	32.47
Females	47,208	202.02	85.90	47.66	37.09	31.37
Rhode Island	4,394	200.73	87.16	43.70	38.46	31.41
Males	2,261	206.99	89.34	47.77	39.36	30.52
Females	2,133	194.09	84.86	39.38	37.51	32.35
Vermont	607	171.33	79.08	51.07	24.71	16.47
Males	306	176.47	84.97	55.56	19.61	16.34
Females	301	166.11	73.09	46.51	29.90	16.61

The three following tables furnish, for part of the registration area, some imperfect data with regard to the age distribution of the population and the deaths under 1 year of age, by periods of months, with the proportions in each period per 1,000 of the whole number under 1 year of age, and the death rate for each period per 1,000 population of corresponding age, at the end of the year.

The following table shows, for the sum of Baltimore, Boston, Brooklyn, Chicago, Cincinnati, District of Columbia, New York city, Philadelphia, St. Louis, and the state of New Jersey, the population under 1 year of age on June 1, 1890; the number in each of four periods of months, and the proportion in each period per 1,000 under 1 year of age, with distinction of sex, color, general nativity, and parental nativity:

SEX, COLOR, NATIVITY, AND PARENTAL NATIVITY.	POPULATION.					PROPORTION AT EACH PERIOD PER 1,000 UNDER 1 YEAR OF AGE.			
	Under 1 year.	Under 3 months.	3 to 6 months.	6 to 9 months.	9 to 12 months.	Under 3 months.	3 to 6 months.	6 to 9 months.	9 to 12 months.
Total	181,623	42,554	49,626	52,993	36,445	234	273	292	201
Males	92,044	21,740	25,115	26,791	18,398	236	273	291	200
Females	89,579	20,814	24,511	26,207	18,047	232	274	293	201
White	175,178	41,039	47,817	51,213	35,109	234	273	292	201
Males	88,855	20,980	24,205	25,936	17,734	236	272	292	200
Females	86,323	20,059	23,612	25,277	17,375	232	274	293	201
Native born	174,266	40,933	47,592	50,873	34,868	235	273	292	200
Males	88,421	20,930	24,097	25,769	17,625	237	273	291	199
Females	85,845	20,003	23,495	25,104	17,243	233	274	292	201
Both parents native (*a*)	41,771	9,847	11,407	12,183	8,334	236	273	292	199
Males	21,278	4,972	5,893	6,216	4,197	234	277	292	197
Females	20,493	4,875	5,514	5,967	4,137	238	269	291	202
One or both parents foreign (*a*)	62,401	14,495	17,441	18,500	11,965	232	280	296	192
Males	31,581	7,429	8,771	9,298	6,083	235	278	294	193
Females	30,820	7,066	8,670	9,202	5,882	229	281	299	191
Foreign born	912	106	225	340	241	116	247	373	264
Males	434	50	108	167	109	115	249	385	251
Females	478	56	117	173	132	117	245	362	276
Colored	6,445	1,515	1,809	1,785	1,336	235	281	277	207
Males	3,189	760	910	855	664	238	286	268	208
Females	3,256	755	899	930	672	232	276	286	206

a Parental nativity is exclusive of Baltimore, Chicago, Philadelphia, and St. Louis.

The following table shows, for the same area as the preceding and with the same distinctions, the number of deaths during the census year and the proportion of deaths in each period of months:

SEX, COLOR, NATIVITY, AND PARENTAL NATIVITY.	DEATHS.					PROPORTION AT EACH PERIOD PER 1,000 UNDER 1 YEAR OF AGE.			
	Under 1 year.	Under 3 months.	3 to 6 months.	6 to 9 months.	9 to 12 months.	Under 3 months.	3 to 6 months.	6 to 9 months.	9 to 12 months.
Total	57,087	32,907	10,197	7,768	6,215	576	179	136	109
Males	31,789	18,784	5,556	4,224	3,225	591	175	133	101
Females	25,298	14,123	4,641	3,544	2,990	558	184	140	118
White	53,157	30,570	9,524	7,211	5,852	575	179	136	110
Males	29,632	17,473	5,193	3,920	3,046	590	175	132	103
Females	23,525	13,097	4,331	3,291	2,806	557	184	140	119
Native born	52,890	30,532	9,455	7,131	5,772	577	179	135	109
Males	29,503	17,456	5,163	3,885	2,999	592	175	132	101
Females	23,387	13,076	4,292	3,246	2,773	559	183	139	119
Both parents native (*a*)	12,404	7,365	2,193	1,560	1,286	594	177	126	103
Males	6,975	4,262	1,214	846	653	611	174	121	94
Females	5,429	3,103	979	714	633	572	180	131	117
One or both parents foreign (*a*)	20,514	11,555	3,621	2,899	2,439	563	177	141	119
Males	11,359	6,592	1,944	1,553	1,270	580	171	137	112
Females	9,155	4,963	1,677	1,346	1,169	542	183	147	128
Foreign born	267	38	69	80	80	142	258	300	300
Males	129	17	30	35	47	132	233	271	364
Females	138	21	39	45	33	152	283	326	239
Colored	3,930	2,337	673	557	363	595	171	142	92
Males	2,157	1,311	363	304	179	608	168	141	83
Females	1,773	1,026	310	253	184	578	175	143	104

a Parental nativity is exclusive of Baltimore, Chicago, Philadelphia, and St. Louis.

The following table gives the death rates in each period of months per 1,000 of population, resulting from a division of the deaths at the stated ages, by the population of corresponding ages, as shown in the preceding tables:

SEX, COLOR, NATIVITY, AND PARENTAL NATIVITY.	DEATH RATE PER 1,000 OF POPULATION.				
	Under 1 year.	Under 3 months.	3 to 6 months.	6 to 9 months.	9 to 12 months.
Total	314.32	773.30	205.48	146.57	170.53
Males	345.37	864.03	221.22	157.66	175.29
Females	282.41	678.53	189.34	135.23	165.68
White	303.45	744.90	199.18	140.80	166.68
Males	333.49	832.84	214.54	151.14	171.76
Females	272.52	652.92	183.42	130.20	161.50
Native born	303.50	745.90	198.67	140.17	165.54
Males	333.67	834.02	214.26	150.76	170.16
Females	272.43	653.70	182.68	129.30	160.82
Both parents native (*a*)	296.95	747.94	192.25	128.05	154.31
Males	327.80	857.20	206.01	136.10	155.59
Females	264.92	636.51	177.55	119.66	153.01
One or both parents foreign (*a*)	328.74	797.17	207.61	156.70	203.84
Males	359.68	887.33	221.64	167.03	208.78
Females	297.05	702.38	193.43	146.27	198.74
Foreign born	292.76	358.49	306.67	235.29	331.95
Males	297.24	340.00	277.78	209.58	431.19
Females	288.70	375.00	333.33	260.12	250.00
Colored	609.78	1,542.57	372.03	312.04	271.71
Males	676.39	1,725.00	398.90	355.56	269.58
Females	544.53	1,358.94	344.83	272.04	273.81

a Parental nativity is exclusive of Baltimore, Chicago, Philadelphia, and St. Louis.

In computing the rates given in the preceding table the population employed as one factor is the living population of the stated ages at the end of the census year, while the deaths which constitute the other factor are those which occurred at the stated ages at any time during the census year; hence the rates given in this table are not true death rates, since they have no relation to the number of infants of corresponding ages, or to any standard of years of life; they merely indicate that the mortality is greatest during the first 3 months of life, and steadily diminishes in each succeeding period of the first year of life, and also show the differences in the rates in different localities.

The population data given in the first of the series of three tables above, being that of a fixed date, namely, June 1, 1890, it follows that the number reported as under 3 months of age represents the survivors out of those born in the last 3 months (or fourth quarter) of the census year; those reported as 3 to 6 months of age the survivors out of the number born in the third quarter of the year; those reported as 6 to 9 months of age the survivors out of the number born in the second quarter; and those reported as 9 to 12 months of age the survivors out of the number born in the first quarter.

Taking the deaths as given in the second of this series of tables, it will be seen that infants dying in any month during the census year at 11 to 12 months of age may have been born in any month in the preceding year; that infants dying at 10 to 11 months may have been born in any month in the preceding year except the first, and so on for each month of death, the overlapping period in which births may have occurred lacking but one day of being equal to the entire census year in which the deaths occurred. For these reasons it is obvious that the deaths among infants from 0 to 3 months of age occurring out of the whole number of children born in any one of 15 months preceding a certain date does not furnish a proper basis for computing an accurate death rate for infants of this age, when divided by the survivors of those born only in the last 3 months preceding the same date The same is also true of the other age periods, but the census returns do not afford any data for adjusting the results for these classes to get a mathematically correct basis for calculating true death rates of infants under 1 year of age, and the preceding rates for different classes, while not technically correct, are comparable with each other and with those of other countries computed in the same way.

SECTION V.

COLOR AND RACE IN RELATION TO MORTALITY.

The influence of race upon general or gross death rates, on death rates for different age groups, and on the mortality from certain forms of disease is sufficiently well marked to make it desirable to take into account the race distribution in the respective populations in comparing the death rates of different localities in the United States.

Table 2, Part III, shows the number of deaths in the United States by states and territories, with distinction of sex and color, and corresponding death rates for the census year. The death rates of this table are considerably too low except for the registration states.

Taking the whole United States, for a population of 54,983,890 whites there were recorded 758,660 deaths, giving a death rate of 13.80 per 1,000. For a population of 7,638,360 colored there were recorded 116,861 deaths, giving a mortality of 15.30 per 1,000.

Taking the states which have the largest proportion of colored population, namely, Alabama, District of Columbia, Florida, Georgia, Kentucky, Maryland, Mississippi, North and South Carolina, Tennessee, Virginia, and Louisiana, the total white population on the 1st of June, 1890, was 7,995,607, and the number of deaths of the whites in this region during the preceding year was 118,792, giving a death rate of 14.86 per 1,000. The colored population of the same area was 5,619,748, giving a death rate of 15.57 per 1,000.

It is in this section of the country that the deficiencies in the enumerators' reports of deaths were the greatest, and these deficiencies appear to be greater for the colored than for the white population, so that the difference between the mortality rates of the two races in this area is, if anything, greater than that indicated.

The following table shows the population of the registration area, and of some of its subdivisions on June 1, 1890, with distinctions of color, sex, general nativity, and parental nativity:

SEX, COLOR, NATIVITY, AND PARENTAL NATIVITY.	Registration area.	Registration cities.	Registration states.	Cities in registration states.	Rural part of registration states.	Cities in non-registration states.	Cities of 100,000 population and upward.
Total	19,659,440	14,958,254	11,881,330	7,180,144	4,701,186	7,778,110	9,697,960
Males	9,801,662	7,430,811	5,874,034	3,503,183	2,370,851	3,927,628	4,850,653
Females	9,857,778	7,527,443	6,007,296	3,676,961	2,330,335	3,850,482	4,847,307
White	18,704,505	14,085,466	11,609,222	6,990,183	4,619,039	7,095,283	9,229,742
Males	9,331,796	7,003,486	5,741,778	3,413,468	2,328,310	3,590,018	4,616,563
Females	9,372,709	7,081,980	5,867,444	3,576,715	2,290,729	3,505,265	4,613,179
Native born	13,718,698	9,819,551	8,625,027	4,725,880	3,899,147	5,093,671	6,183,299
Males	6,789,155	4,843,248	4,252,553	2,306,646	1,945,907	2,536,602	3,063,287
Females	6,929,543	4,976,303	4,372,474	2,419,234	1,953,240	2,557,069	3,119,022
Both parents native (*a*)	6,400,094	3,378,369	5,330,619	2,303,894	3,021,725	1,069,475	1,463,972
Males	3,171,279	1,668,628	2,629,583	1,126,932	1,502,651	541,696	729,813
Females	3,228,815	1,709,741	2,701,036	1,181,962	1,519,074	527,779	734,159
One or both parents foreign (*a*)	4,279,510	3,402,088	3,249,703	2,372,281	877,422	1,029,807	2,130,478
Males	2,102,325	1,659,069	1,600,629	1,157,573	443,256	501,696	1,041,608
Females	2,177,185	1,743,019	1,649,074	1,214,908	434,166	528,111	1,088,870
Foreign born	4,985,807	4,265,015	2,984,195	2,264,303	719,892	2,001,612	3,046,533
Males	2,542,641	2,160,238	1,489,225	1,106,822	382,403	1,053,416	1,553,276
Females	2,443,166	2,105,677	1,494,970	1,157,481	337,489	948,196	1,493,257
Colored	954,935	872,788	272,108	189,961	82,147	682,827	468,218
Males	469,866	427,325	132,256	89,715	42,541	337,610	234,090
Females	485,069	445,463	139,852	100,246	39,606	345,217	234,128

a Includes only areas in which nativity of parents was reported for the deaths.

The following table shows for the registration area and some of its subdivisions the death rates per 1,000 of population for the census year, with distinctions of color, sex, general nativity, and parental nativity:

AREA.	Aggregate.	WHITE.							COLORED.		
		Total.	Males.	Females.	Native born.			Foreign born.	Total.	Males.	Females.
					Total.	Both parents native.	One or both parents foreign.				
Registration area	20.81	20.22	21.52	18.93	20.52	18.15	23.45	19.39	32.40	34.54	30.33
Cities	22.43	21.73	23.35	20.13	22.53	20.38	25.70	19.90	33.68	36.09	31.37
States	20.38	20.17	21.31	19.05	20.28	18.13	23.84	19.84	29.50	31.37	27.74
Cities	23.48	23.19	24.94	21.51	24.27	21.36	27.22	20.92	34.14	37.30	31.31
Rural	15.66	15.60	15.99	15.20	15.45	15.66	14.73	16.42	18.78	18.88	18.63
Cities in nonregistration states	21.47	20.30	21.85	18.72	20.92	18.27	22.22	18.73	33.56	35.78	31.39
Cities of 100,000 population and upward	23.30	22.78	24.58	20.97	24.06	23.96	26.74	20.17	33.64	35.55	31.74
Metropolitan district, 6 years	26.73	26.74	28.82	24.71	29.76	29.90	29.66	21.67	28.81	31.29	26.42

It will be seen from this table that in the registration area the death rate per 1,000 of population was much higher for the colored (32.40) than it was for the whites (20.22), and that this excess of mortality among the colored existed in every subdivision of the registration area, but that in the metropolitan district the difference in the death rates of the two races for the 6-year period was much less, that for the colored being 28.81 and that for the whites 26.74. This was probably due to the unusually large proportion of adults employed as servants, waiters, etc., among the colored population of this area. The difference in the mortality of the two races in the rural districts of the registration states was not very great, the rate being for the colored 18.78 and for the whites 15.60. Among the whites, the death rate was a little higher among the native born (20.52) than among the foreign born (19.39), which is due to the much larger proportion of young children, having a high mortality, in the former class. Among the native born whites the death rate was decidedly higher among those having one or both parents foreign born (23.45) than it was among those of whom both parents were native born (18.15); but in the metropolitan district for the 6-year period the death rates of these two classes were almost the same, that for those both of whose parents were native born being 29.90, and for those having one or both parents foreign born 29.66. In the rural districts of the registration states the death rate of the native born whites having both parents native born (15.66) was a little higher than that of those having one or both parents foreign born (14.73).

It is much to be regretted that not one of the southern states, where the greatest proportion of the negro race is found, had any complete system of registration of deaths, and it is only in a few of the large cities in this section of the country that we can compare the death rate of the negroes with that of the whites. There are at present no means of determining with accuracy the death rates of the negroes or of the whites in the rural districts of the south.

The excessive death rate among the colored was most marked in the younger ages, as has been shown in the table in the preceding section, page 20, giving for the registration area and some of its subdivisions the death rates of the white and colored, with distinction of certain age groups and of sex.

In the registration area, for infants under 1 year of age, the death rate for the census year was, for the whites 198.41, and for the colored 366.54, per 1,000 of population of that age group. For those under 5 years of age, for the whites, 64.21; and for the colored, 124.20. For those from 5 to 15 years of age, for the whites, 5.39; for the colored, 10.43. For those from 15 to 45 years of age, for the whites, 9.29; for the colored, 17.03. For those from 45 to 65 years of age, for the whites, 21.71; for the colored, 33.24. For those 65 years of age and over, for the whites, 78.11; for the colored, 106.20.

In the 5 large cities containing a considerable proportion of colored population, namely, Louisville, Baltimore, New Orleans, St. Louis, and Washington, the death rate for the census year, for children under 5 years of age, was, for the whites, 88.48; for the colored, 151.60; for those from 5 to 15 years of age, for the whites, 6.10; for the colored, 11.12; for those from 15 to 45 years of age, for the whites, 11.97; for the colored, 16.42; for those from 45 to 65 years of age, for the whites, 31.42; for the colored, 37.36, and for those 65 years of age and over, for the whites, 96.67; for the colored, 93.16.

The following table shows the number of deaths and the proportion reported as due to each of certain causes during the census year, per 1,000 deaths from all known causes, among the whites, the colored, and the Indians, with distinction of sex:

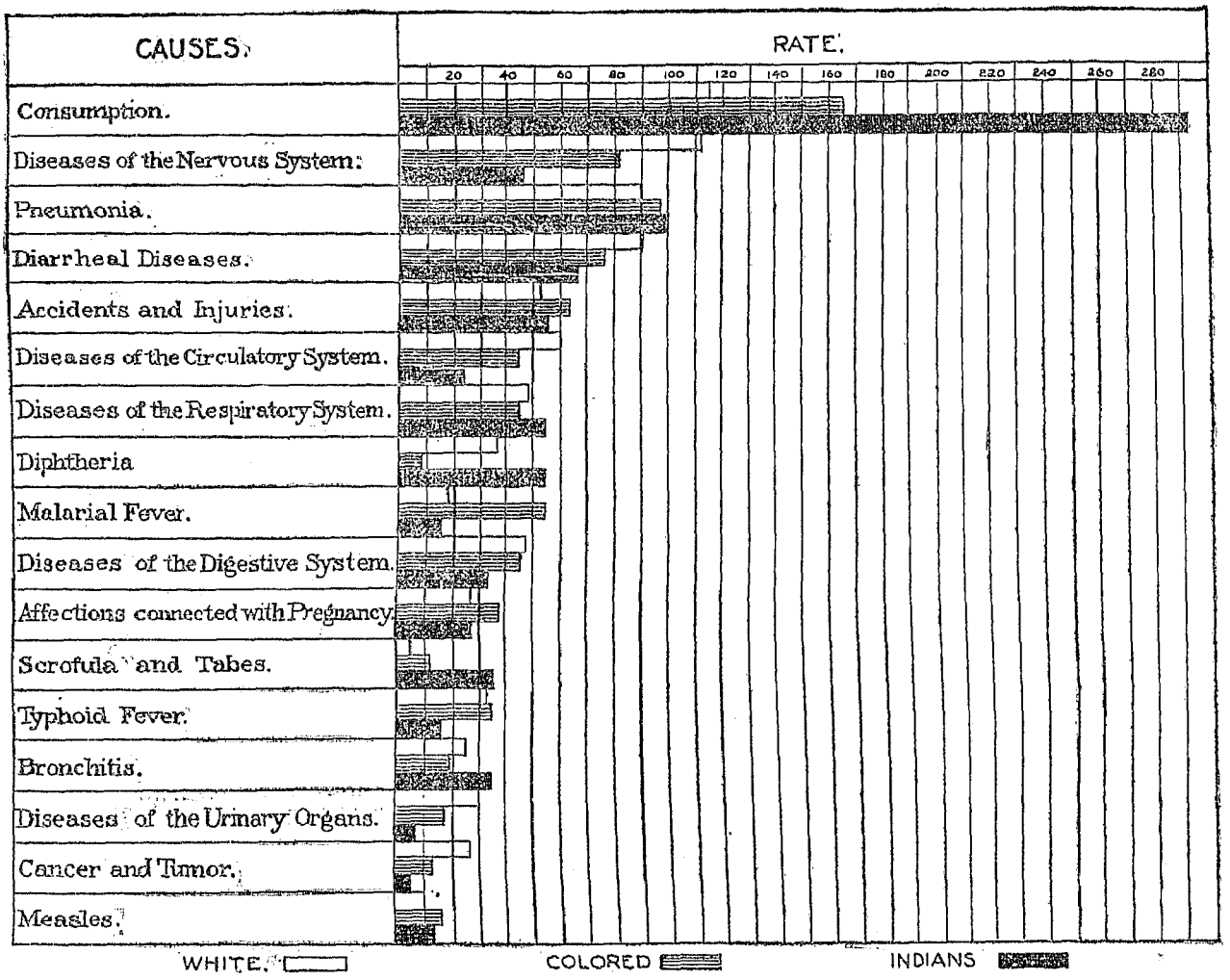
CAUSES.	WHITE.			COLORED. (a)			INDIANS.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
Number of deaths	758,660	404,530	354,130	113,672	58,186	55,486	3,189	1,614	1,575
Measles	10.45	9.68	11.32	14.87	14.68	15.07	13.12	15.65	10.50
Scarlet fever	7.93	7.29	8.66	1.27	1.41	1.13	3.58	3.13	4.04
Diphtheria	36.59	33.40	40.23	7.64	6.79	8.53	53.26	54.77	51.70
Typhoid fever	32.07	33.80	30.10	33.23	34.23	32.19	14.71	11.74	17.77
Diarrheal diseases	90.66	90.21	91.18	76.26	77.92	74.52	66.38	69.64	63.00
Malarial fever	17.73	17.32	18.20	53.20	53.01	53.39	14.31	18.00	10.50
Venereal diseases	1.42	1.55	1.27	5.20	6.12	4.23	13.51	10.95	16.16
Scrofula and tabes	3.91	3.72	4.12	11.19	10.57	11.85	34.18	39.91	23.27
Consumption	114.55	103.85	126.77	166.41	143.18	185.59	290.54	276.21	305.33
Cancer and tumor	26.87	19.63	35.14	11.83	5.69	18.28	4.37	.....	8.89
Diseases of the nervous system	110.87	112.94	108.52	80.76	82.12	79.32	44.52	42.25	46.85
Diseases of the circulatory system	60.02	60.56	59.40	41.24	41.04	47.61	22.66	23.47	21.81
Bronchitis	26.91	24.71	28.13	19.34	19.44	19.23	32.50	35.99	29.08
Pneumonia	89.00	93.96	85.27	98.03	103.99	86.49	98.57	100.16	96.93
Other diseases of the respiratory system	48.60	49.28	47.83	44.20	46.07	42.24	53.66	45.33	62.20
Diseases of the digestive system	47.30	46.99	47.65	44.54	47.50	41.43	32.59	32.86	32.31
Diseases of the urinary system	29.74	36.32	22.23	17.18	22.76	11.31	5.56	7.04	4.04
Diseases of the female organs of generation	.....	.....	6.77	.....	.....	11.22	.....	.....	2.42
Affections connected with pregnancy	.....	.....	27.31	.....	.....	36.55	.....	.....	27.46
Accidents and injuries	52.30	76.43	24.76	63.34	87.86	37.54	52.86	82.16	22.62

a Includes 1,113 Chinese.

The above table may be compared with Table 14, page xxxvi, volume XI, Tenth Census Reports.

This table indicates that among the colored, measles, typhoid fever, malarial fever, diseases of the female organs of generation, affections connected with pregnancy, and accidents and injuries caused a greater proportion of the total number of deaths from known causes than was the case among the whites or the Indians. Among the Indians diphtheria, venereal diseases, scrofula and tabes, consumption, bronchitis, pneumonia, and other diseases of the respiratory system caused a greater proportion of deaths than they did among the whites or the colored. This corresponds substantially to the result shown by the similar table on page xxxvi, volume XI, of the report on the Mortality and Vital Statistics of the Tenth Census.

The relative proportions of deaths due to certain causes among the whites, the colored, and the Indians are shown in the following diagram:



In 1880, out of each 1,000 deaths from known causes among the Indians, 34.87 were due to venereal diseases. In 1890, the corresponding figure is 13.51. In 1880, the proportion of deaths from consumption was, for the Indians, 286.99; for the colored, 186.03; and for the whites, 166.62. In 1890, the corresponding figures were, Indians, 290.54; colored, 166.41; whites, 114.55.

The following table shows the number of deaths reported as having occurred among Indians in the United States during the census year, with distinction of sex, of two age groups, and of certain causes of death:

CAUSES.	Total.	Males.	Females.	UNDER 5 YEARS.		5 YEARS AND OVER.		UNKNOWN.	
				Males.	Females.	Males.	Females.	Males.	Females.
Total	3,189	1,614	1,575	502	508	1,020	974	83	93
Measles	33	20	13	9	5	11	8	.....	.....
Scarlet fever	9	4	5	2	5	2	.....	.....	.....
Diphtheria	210	70	140	30	79	40	61	.....	.....
Typhoid fever	37	15	22	1	.....	14	21	.....	.....
Diarrheal diseases	167	89	78	63	62	25	15	1	1
Malarial fever	36	23	13	11	1	12	11	.....	1
Erysipelas	8	3	5	1	.....	2	5	.....	.....
Venereal diseases	34	14	20	3	4	11	16	.....	.....
Parasitic diseases	1	.....	1	.....	1	.....	.....	.....	.....
Rheumatism	13	7	6	.....	.....	7	6	.....	.....
Scrofula and tabes	86	51	35	13	12	36	21	2	2
Consumption	731	353	378	25	28	311	333	17	17
Cancer	9	.....	9	.....	.....	.....	9	.....	.....
Tumor	2	.....	2	.....	.....	.....	2	.....	.....
Diseases of the nervous system	112	54	58	25	37	27	20	2	1
Diseases of the circulatory system	55	30	25	1	3	29	22	.....	.....
Diseases of the respiratory system	465	232	233	79	87	144	141	9	5
Bronchitis	82	46	36	20	20	26	15	.....	1
Pneumonia	248	128	120	36	38	88	80	4	2
Diseases of the digestive system	82	42	40	10	18	32	19	.....	3
Diseases of the urinary system	14	9	5	1	.....	8	4	.....	1
Diseases of the female organs of generation	3	.....	3	.....	.....	.....	3	.....	.....
Affections connected with pregnancy	34	.....	34	.....	.....	.....	29	.....	5
Diseases of the bones and joints	3	2	1	.....	1	1	1	.....	.....
Diseases of the skin	5	5	.....	.....	.....	5	.....	.....	.....
Accidents and injuries	133	105	28	12	8	89	18	4	2
Other diseases and unknown causes	577	313	264	160	90	109	114	44	51

The following table shows for the Indians on reservations in certain states and territories from which reports of deaths were received the population, the number of deaths with distinction of sex, and the death rate per 1,000 of population:

STATES AND TERRITORIES.	Population. (a)	DEATHS.			Rate.
		Total.	Males.	Females.	
Total	75,355	2,431	1,206	1,225	32.26
Arizona	2,121	81	46	35	38.19
California	1,049	36	14	22	34.32
Colorado	985	18	10	8	18.27
Idaho	1,493	20	12	8	13.40
Iowa	397	18	6	12	45.34
Kansas	1,016	19	6	13	18.70
Minnesota	2,115	112	56	56	52.96
Montana	10,336	301	152	149	29.12
Nebraska	3,751	132	64	68	35.19
Nevada	966	20	13	7	20.70
New Mexico	8,278	251	134	117	30.32
North and South Dakota	25,358	874	431	443	34.47
Oklahoma	3,621	110	55	55	30.38
Oregon	3,708	112	49	63	30.20
Utah	833	38	17	21	45.62
Washington	4,390	123	58	65	28.02
Wisconsin	3,137	90	40	50	28.69
Wyoming	1,801	76	43	33	42.20

a Includes only those reservations from which reports of deaths were received.

This table may be compared with Table 15, page xxvi, volume XI, Tenth Census Reports.

It will be seen from this table that the average death rate for these Indians (32.26) was a high one, the rate in 1880 having been 23.6.

The following table shows the death rates per 100,000 of population from certain diseases among the Indians upon reservations from which reports were received:

CAUSES.	Deaths.	Rate.	CAUSES.	Deaths.	Rate.
Total	2,431	3,226.06	Consumption	532	705.99
Scarlet fever	9	11.94	Pneumonia	186	246.83
Measles	28	37.16	Heart disease and dropsy	45	59.72
Whooping cough	76	100.86	Diseases of the liver	14	18.58
Diphtheria	124	164.55	Diseases of the nervous system	83	110.15
Croup	12	15.92	Diseases of the urinary system	11	14.60
Typhoid fever	19	25.21	Affections connected with pregnancy	21	55.30
Malarial fever	18	23.89	Old age	44	58.39
Diarrheal diseases	120	159.25	Stillbirths	1	1.33
Cancer and tumor	4	5.31	All other causes	1,084	1,438.52

These death rates should be compared with those given hereafter for the registration area in the discussion of special causes of disease.

The distinction of race among the whites, both as regards the living and the dead, can best be approximated by taking the birthplace of the mother as an indication of the race, the birthplace of the person being of comparatively little value for this purpose since it only applies to comparatively recent immigrants, and nearly all the children living or dying under 5 years of age would thus be reported as Americans.

The following table shows the white population of the registration area, and of some of its subdivisions on June 1, 1890, with distinction of birthplaces of mothers. Registration cities in which nativity of parents was not recorded, are excluded:

BIRTHPLACES OF MOTHERS.	Registration area.	Registration cities.	REGISTRATION STATES.			Cities in nonregistration states.
			Total.	Cities.	Rural.	
United States	6,935,411	3,793,555	5,740,752	2,598,896	3,141,856	1,194,659
England and Wales	698,368	515,160	561,070	377,862	183,208	137,298
Ireland	2,659,877	2,101,375	2,306,759	1,748,257	558,502	353,118
Scotland	203,822	155,454	165,897	117,529	48,368	37,925
France	81,984	65,165	57,594	40,775	16,819	24,390
Germany	2,125,315	1,869,251	1,362,302	1,106,238	256,064	763,013
Canada	672,799	441,677	599,093	367,971	231,122	73,706
Scandinavia	243,785	207,230	122,968	86,413	36,555	120,817
Hungary	32,005	27,909	25,201	21,105	4,096	6,804
Bohemia	40,709	39,262	15,553	14,106	1,447	25,156
Italy	140,053	119,949	121,933	101,829	20,104	18,120
Other foreign countries	432,405	384,617	314,283	266,495	48,788	118,122

It will be seen from this table that in the registration area as a whole the number of whites whose mothers were born in the United States (6,935,411), in Ireland (2,659,877), in Germany (2,125,315), in England and Wales (698,368), and in Canada (672,799) was so large as to make the ratios derivable from them of definite value.

Table 1, Part IV of this report shows the number of deaths reported in the United States, in the registration states, and in the cities in the registration states, for each of certain ages and groups of ages, with distinctions of sex, color, nativity, parental nativity, and birthplaces of mothers, for the census year ending May 31, 1890.

The following table shows the number of deaths among the whites, and the death rates per 1,000 of white population, with distinction of birthplaces of mothers, for the registration area and some of its subdivisions during the census year:

BIRTHPLACES OF MOTHERS.	REGISTRATION AREA.		REGISTRATION CITIES.		REGISTRATION STATES.						CITIES IN NON-REGISTRATION STATES.		CITIES OF 100,000 POPULATION AND UPWARD.	
					Total.		Cities.		Rural.					
	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.
United States	101,293	14.61	64,456	16.99	88,228	15.37	51,391	19.77	36,837	11.73	13,035	10.94	36,252	20.87
England and Wales	12,100	17.33	9,471	18.39	9,966	17.76	7,337	19.43	2,629	14.34	2,134	15.54	5,511	19.38
Ireland	58,690	21.84	49,923	23.76	51,914	22.51	43,747	25.62	8,167	14.62	6,776	17.49	32,297	26.74
Scotland	3,433	16.84	2,766	17.80	2,952	17.79	2,285	19.46	667	13.76	481	12.63	1,632	19.16
France	1,395	17.02	1,161	17.82	1,019	17.69	785	19.26	234	13.90	376	15.42	862	19.00
Germany	38,475	18.10	35,177	18.82	25,957	19.05	22,659	20.49	3,298	12.86	12,518	16.41	28,257	19.87
Canada	11,770	17.49	8,812	19.94	10,559	17.62	7,601	20.64	2,958	12.82	1,211	16.43	2,606	19.61
Scandinavia	4,123	16.91	3,635	17.54	2,261	18.39	1,773	20.51	488	13.35	1,862	15.41	2,562	19.04
Hungary	811	25.34	763	27.34	644	25.55	596	28.24	48	11.71	167	24.54	615	27.19
Bohemia	1,192	29.28	1,173	29.88	511	32.86	492	34.88	19	13.11	681	27.07	1,144	30.47
Italy	3,977	28.40	3,772	31.46	3,642	29.87	3,437	33.77	205	10.17	335	18.49	3,294	33.35
Other foreign countries	9,288	21.48	8,744	22.74	6,038	19.21	5,494	20.62	544	11.37	3,250	27.51	6,944	23.74

It will be seen from this table that in the total registration area among the whites the death rate was highest among the children of mothers born in Bohemia (29.28), in Italy (28.40), and in Hungary (25.34), and was lowest among the children of mothers born in the United States (14.61), in Scotland (16.84), and in Scandinavia (16.91).

In the cities in the registration states it was highest among the children of mothers born in Bohemia (34.88), in Italy (33.77), and in Hungary (28.24), and was lowest among the children of mothers born in France (19.26), in England and Wales (19.43), and in Scotland (19.46). It was higher among the children of mothers born in Germany (20.49) than among the children of mothers born in the United States (19.77).

In the rural districts it was highest among the children of mothers born in Ireland (14.62), in England and Wales (14.34), and in France (13.90), and lowest among the children of mothers born in Italy (10.17), in Hungary (11.71), and in the United States (11.73).

The following table shows for the whites in the registration states as a whole, and for the cities and the rural portions of these states taken separately, the population, deaths, and death rates for the census year, with distinction of birthplaces of mothers, and of four groups of ages:

POPULATION, DEATHS, AND DEATH RATES, BY BIRTHPLACES OF MOTHERS.	AGE. (a)				
	All ages.	Under 15 years.	15 to 45 years.	45 to 65 years.	65 years and over.
REGISTRATION STATES. (b)					
Population:					
Mothers born in—					
United States	5,740,752	1,871,375	2,537,682	940,042	391,653
England and Wales	561,070	132,498	297,714	102,167	28,691
Scotland	165,897	36,945	89,751	30,320	8,881
Ireland	2,306,759	470,977	1,353,646	392,022	90,114
Germany	1,362,302	347,013	755,641	210,003	50,245
Canada	599,693	202,407	320,875	62,958	12,853
France	57,594	10,854	32,214	11,362	3,104
Scandinavia	122,968	35,140	74,737	11,243	1,848
Bohemia	15,553	5,859	7,798	1,578	318
Hungary	25,201	8,120	15,024	1,857	200
Italy	121,933	39,748	69,959	11,071	1,155
Deaths:					
Mothers born in—					
United States	88,228	41,596	14,824	11,738	20,070
England and Wales	9,966	3,517	2,277	1,994	2,178
Scotland	2,952	910	745	629	668
Ireland	51,914	13,338	17,843	12,344	8,489
Germany	25,957	10,761	6,350	5,072	3,774
Canada	10,559	6,316	2,438	1,015	790
France	1,019	295	230	240	254
Scandinavia	2,261	1,245	676	224	116
Bohemia	511	322	117	48	24
Hungary	644	449	120	55	20
Italy	3,642	2,697	632	219	94
Death rates per 1,000 of population:					
Mothers born in—					
United States	15.37	22.23	5.84	12.49	51.24
England and Wales	17.76	26.54	7.65	19.52	75.91
Scotland	17.79	24.63	8.30	20.75	75.22
Ireland	22.51	28.32	13.18	31.23	94.20
Germany	19.05	31.01	8.41	24.15	75.11
Canada	17.62	31.20	7.60	16.12	61.46
France	17.69	27.18	7.14	21.12	80.28
Scandinavia	18.39	35.43	9.05	19.92	62.77
Bohemia	32.86	54.96	15.00	30.42	75.47
Hungary	25.55	55.30	7.99	29.62	100.00
Italy	29.87	67.85	9.03	19.78	81.39

a Unknown age distributed proportionally.

b Wilmington, Del., not included.

POPULATION, DEATHS, AND DEATH RATES—Continued.

POPULATION, DEATHS, AND DEATH RATES, BY BIRTHPLACES OF MOTHERS.	AGE. (a)				
	All ages.	Under 15 years.	15 to 45 years.	45 to 65 years.	65 years and over.
CITIES IN REGISTRATION STATES. (b)					
Population:					
Mothers born in—					
United States	2,598,896	921,686	1,186,337	370,038	121,435
England and Wales	377,862	92,522	201,948	64,818	15,574
Scotland	117,529	27,288	65,299	20,130	4,812
Ireland	1,748,257	361,633	1,045,331	284,114	57,179
Germany	1,106,238	284,695	620,565	164,948	36,030
Canada	367,971	123,863	201,916	36,193	5,999
France	40,755	7,767	23,560	7,645	1,803
Scandinavia	86,413	24,178	53,179	7,899	1,157
Bohemia	14,106	5,309	7,111	1,403	283
Hungary	21,105	7,344	12,023	1,571	167
Italy	101,829	35,552	56,334	8,942	1,001
Deaths:					
Mothers born in—					
United States	51,391	29,826	7,982	5,827	7,756
England and Wales	7,337	2,878	1,713	1,434	1,312
Scotland	2,285	761	602	496	426
Ireland	43,747	11,940	15,374	10,276	6,157
Germany	22,659	9,797	5,666	4,333	2,863
Canada	7,601	4,793	1,745	660	403
France	785	239	184	201	161
Scandinavia	1,773	1,069	519	170	75
Bohemia	492	310	112	47	23
Hungary	596	424	104	51	17
Italy	3,437	2,576	580	193	88
Death rates per 1,000 of population:					
Mothers born in—					
United States	19.77	32.38	6.73	15.75	63.87
England and Wales	19.42	31.11	8.36	22.12	84.24
Scotland	19.44	27.89	9.22	24.64	88.53
Ireland	25.02	33.02	14.71	36.17	107.68
Germany	20.48	34.41	9.13	26.27	79.46
Canada	20.66	38.70	8.64	18.24	67.18
France	19.25	30.77	7.81	26.29	89.30
Scandinavia	20.52	41.73	9.76	21.52	64.82
Bohemia	34.88	58.39	15.75	33.50	81.27
Hungary	28.24	57.73	8.65	32.46	101.80
Italy	33.75	72.46	10.30	21.58	87.91
RURAL PART OF REGISTRATION STATES.					
Population:					
Mothers born in—					
United States	3,141,856	950,289	1,351,345	570,004	270,218
England and Wales	183,208	39,976	92,766	37,349	13,117
Scotland	48,368	9,657	24,452	10,190	4,069
Ireland	558,502	109,344	308,315	107,908	32,935
Germany	256,064	62,318	134,476	45,055	14,215
Canada	231,122	78,544	118,959	26,765	6,854
France	16,819	3,687	8,654	3,717	1,361
Scandinavia	36,555	10,962	21,558	3,344	691
Bohemia	1,447	550	687	175	35
Hungary	4,096	776	3,001	286	33
Italy	20,104	4,196	13,625	2,129	154
Deaths:					
Mothers born in—					
United States	36,837	11,770	6,842	5,911	12,314
England and Wales	2,629	639	564	560	866
Scotland	667	149	143	133	242
Ireland	8,167	1,398	2,469	1,068	2,332
Germany	3,298	964	684	739	911
Canada	2,958	1,523	693	355	387
France	234	56	46	39	93
Scandinavia	488	236	157	54	41
Bohemia	19	12	5	1	1
Hungary	48	25	16	4	3
Italy	205	121	52	26	6
Death rates per 1,000 of population:					
Mothers born in—					
United States	11.72	12.39	5.06	10.37	45.57
England and Wales	14.35	15.98	6.08	14.99	66.02
Scotland	13.79	15.43	5.85	13.05	59.47
Ireland	14.62	12.79	8.01	13.24	70.81
Germany	12.88	15.47	5.09	16.40	64.09
Canada	12.80	19.39	5.83	13.26	56.46
France	13.91	18.14	5.32	10.49	68.33
Scandinavia	13.35	21.53	7.28	16.15	59.33
Bohemia	13.13	21.82	7.28	5.71	28.57
Hungary	11.72	32.22	5.33	13.99	90.91
Italy	10.20	28.84	3.82	12.21	38.96

a Unknown age distributed proportionally.

b Wilmington, Del., not included.

The total white population of these states on the 1st of June, 1890, was 11,609,222, and of these, 5,740,752, or a little under one-half, were reported as children of mothers born in the United States. It is this population at the end of the year, and not the mean population of the year, that is used in calculating the death rates, for reasons previously given, and all the death rates are therefore from 0.1 to 0.5 per 1,000 too low, but they are fairly comparable with each other.

It will be seen that in these states the death rate of those whose mothers were born in the United States (15.37) was lower than that for those having mothers born in any other country. Had it been possible to separate the Jewish race, its death rate would have been found to be decidedly lower than that of the Americans.

The highest gross death rates occurred among the children of mothers born in Bohemia (32.86), in Italy (29.87), and in Hungary (25.55), and the lowest among those whose mothers were born in the United States (15.37), in Canada (17.62), in France (17.69), and in England and Wales (17.76).

For those under 15 years of age the highest death rate occurred among the children of mothers born in Italy (67.85), in Hungary (55.30), in Bohemia (54.96), and in Scandinavia (35.43), and the lowest among the children of mothers born in the United States (22.23), in Scotland (24.63), in England and Wales (26.54), in France (27.18), and in Ireland (28.32), the mortality of the first group being twice as high as that of the second.

For those between 15 and 45 years of age the death rates were highest among those having mothers born in Bohemia (15.00), in Ireland (13.18), and in Scandinavia (9.05), and the lowest among those having mothers born in the United States (5.84), in France (7.14), in Canada (7.60), in England and Wales (7.65), in Hungary (7.99), and in Scotland (8.30).

For those from 45 to 65 years of age the highest death rate occurred among those having mothers born in Ireland (31.23), in Bohemia (30.42), and in Hungary (29.62), and the lowest among those having mothers born in the United States (12.49), in Canada (16.12), and in England and Wales (19.52).

For those 65 years of age and over the highest death rate occurred among those having mothers born in Hungary (100.00), in Ireland (94.20), in Italy (81.39), and in France (80.28), and the lowest among those having mothers born in the United States (51.24), in Canada (61.46), in Scandinavia (62.77), in Germany (75.11), and in Scotland (75.22).

If we take the registration cities in the registration states which have a total white population of 6,990,183 we find that the highest gross death rates occurred among those whose mothers were born in Bohemia (34.88), in Italy (33.75), in Hungary (28.24), and in Ireland (25.02), and the lowest among those whose mothers were born in France (19.25), in England and Wales (19.42), and in Scotland (19.44).

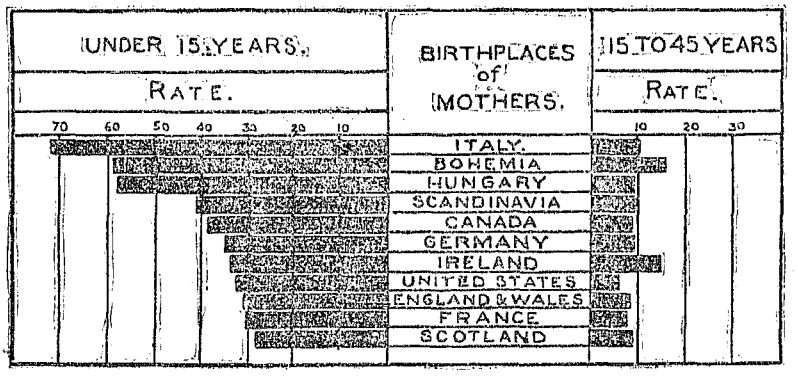
Taking the children under 15 years of age in these cities the highest death rates occurred among those whose mothers were born in Italy (72.46), in Bohemia (58.39), and in Hungary (57.73), and the lowest among those whose mothers were born in Scotland (27.89), in France (30.77), in England and Wales (31.11), and in the United States (32.38).

For those from 15 to 45 years of age living in these cities the highest death rate occurred among the children of mothers born in Bohemia (15.75), in Ireland (14.71), in Italy (10.30), and in Scandinavia (9.76), and the lowest among those whose mothers were born in the United States (6.73), in France (7.81), in England and Wales (8.36), and in Canada (8.64).

In the age group 45 to 65 years the highest death rate occurred among those whose mothers were born in Ireland (36.17), in Bohemia (33.50), and in Hungary (32.46), and the lowest among those having mothers born in the United States (15.75), in Canada (18.24), in Scandinavia (21.52), and in Italy (21.58).

For the residents of these cities 65 years of age and over the highest death rate occurred among those having mothers born in Ireland (107.68), in Hungary (101.80), in France (89.30), and in Scotland (88.53), and the lowest among those having mothers born in the United States (63.87), in Scandinavia (64.82), and in Canada (67.18).

The following diagram shows the difference in the death rates of the different races in these cities during the census year, for the children under 15 years of age, and for those from 15 to 45 years of age.



Taking, now, the rural part of the registration states, which, however, includes a considerable number of comparatively large towns and has a total white population of 4,619,039, we find that the highest gross death rates occurred among those having mothers born in Ireland (14.62), in England and Wales (14.35), in France (13.91), and in Scotland (13.79), and the lowest among those whose mothers were born in Italy (10.20), in the United States (11.72), and in Hungary (11.72).

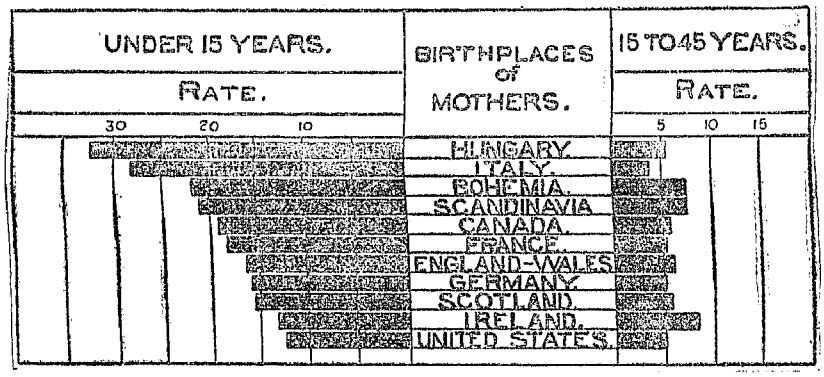
For white children under 15 years of age in these districts the highest death rate occurred among those having mothers born in Hungary (32.22), in Italy (28.84, in Bohemia (21.82), and in Scandinavia (21.53), and the lowest among those having mothers born in the United States (12.39), in Ireland (12.79), in Scotland (15.43), and in Germany (15.47).

For the white population from 15 to 45 years of age in these districts the highest death rates occurred among those having mothers born in Ireland (8.01), in Scandinavia (7.28), and in Bohemia (7.28), and the lowest among those having mothers born in Italy (3.82), the United States (5.06), and in Germany (5.09).

Of the white population from 45 to 65 years of age in these districts the highest death rates occurred among those having mothers born in Ireland (18.24), in Germany (16.40), and in Scandinavia (16.15), and the lowest among those having mothers born in Bohemia (5.71, the number being very small), in the United States (10.37), and in France (10.49).

For the whites 65 years of age and over in these districts the number of deaths was generally too small to give rates of any significance. Among others, the highest death rates were among those having mothers born in Ireland (70.81), in France (68.33), and in England and Wales (66.02), and the lowest among those having mothers born in the United States (45.57), in Canada (56.46), and in Scandinavia (59.33).

The following diagram shows the difference in the death rates in the rural districts during the census year for the children under 15 years of age, and for those from 15 to 45 years of age.



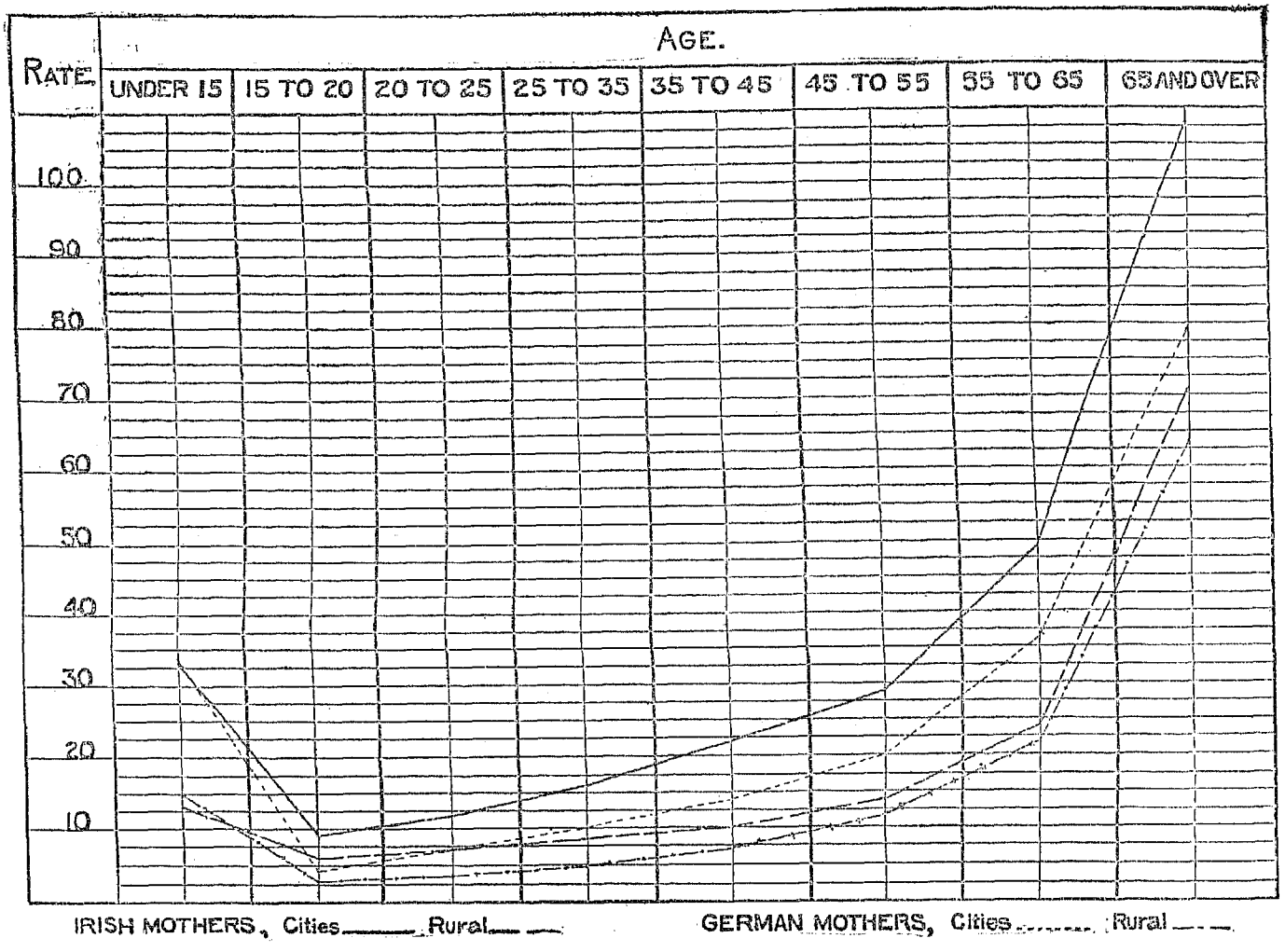
It appears, then, that the death rate of adults having Irish mothers was highest both in the cities and the rural districts; that the death rate of the children under 15 years of age of Irish mothers was comparatively low in both localities; that the death rates of the children under 15 years of age having Italian, Hungarian, and Bohemian mothers were highest throughout, but that the death rate of adults having Italian mothers was comparatively low.

For all races and all ages, the death rates were higher in the cities than in the rural districts, but the evil effects of city life are manifested plainly in the children under 15 years of age, and especially among the children of mothers born in the United States, in Canada, and in Germany.

The relatively large number of the Irish and German population make their death rates of special interest, and therefore a more detailed comparison is given in the following table, which shows for the registration states the death rates of those having mothers of these two races, with a finer distinction of ages and with the distinction of cities and rural districts:

AREAS AND AGES.	MOTHERS BORN IN IRELAND.			MOTHERS BORN IN GERMANY.		
	Population.	Deaths.	Rates.	Population.	Deaths.	Rates.
Registration states, all ages	2,306,759	51,914	22.51	1,362,302	25,957	19.05
Under 15 years	470,977	13,338	28.32	347,013	10,761	31.01
15 to 20 years	243,422	1,713	7.04	138,474	565	4.08
20 to 25 years	307,357	3,227	10.50	151,342	990	6.54
25 to 35 years	490,705	6,936	14.13	281,013	2,494	8.88
35 to 45 years	312,162	5,967	19.12	184,213	2,301	12.49
45 to 55 years	240,602	6,271	25.48	127,633	2,352	18.43
55 to 65 years	145,930	5,973	40.93	82,369	2,720	33.02
65 years and over	96,114	8,489	94.20	50,245	3,774	75.11
Cities in registration states, all ages	1,748,257	43,747	25.02	1,106,238	22,659	20.48
Under 15 years	361,633	11,940	33.02	234,695	9,797	34.41
15 to 20 years	182,560	1,371	7.51	113,401	496	4.37
20 to 25 years	237,575	2,719	11.44	125,448	883	7.04
25 to 35 years	383,242	6,029	15.73	231,420	2,225	9.61
35 to 45 years	241,954	5,255	21.72	150,296	2,062	13.72
45 to 55 years	183,257	5,372	29.31	101,973	2,047	20.07
55 to 65 years	100,857	4,904	48.62	62,975	2,286	36.30
65 years and over	57,179	6,157	107.68	36,030	2,863	79.46
Rural part of registration states, all ages	558,502	8,167	14.62	256,064	3,298	12.88
Under 15 years	109,344	1,398	12.79	62,318	964	15.47
15 to 20 years	60,862	342	5.62	25,073	69	2.75
20 to 25 years	69,782	508	7.28	25,894	107	4.13
25 to 35 years	107,463	907	8.44	49,593	269	5.42
35 to 45 years	70,208	712	10.14	33,917	239	7.05
45 to 55 years	62,835	890	14.31	25,660	305	11.89
55 to 65 years	45,073	1,069	23.72	19,304	434	22.38
65 years and over	32,935	2,332	70.81	14,215	911	64.09

The following diagram shows the relative magnitude of the rates given in the preceding table:



It will be seen from the preceding table and diagram that for children under 15 years of age the death rate of those having Irish mothers was lower than of those having German mothers, both in the cities and in the rural districts, but above 15 years of age the death rate of those having Irish mothers was higher than that of those having German mothers in every age group, and that the excess was greater in the cities than it was in the rural districts.

The following table shows the population on the 1st of June, 1890, for the sum of New Jersey, New York city, Brooklyn, Boston, Cincinnati, and the District of Columbia, in the aggregate, and for each of certain age groups, with distinctions of color, and, for the whites, of birthplaces of mothers.

COLOR AND BIRTHPLACES OF MOTHERS.	All ages.	Under 5 years.	5 to 15 years.	15 to 45 years.	45 to 65 years.	65 years and over.
Total	4,742,354	500,635	895,506	2,497,475	676,197	160,790
White	4,561,411	484,954	863,098	2,394,298	652,965	155,623
Colored	180,943	15,681	32,408	103,177	23,232	5,167
Birthplaces of mothers (white):						
United States	1,718,087	247,013	408,716	766,759	224,343	63,977
England and Wales	214,510	17,067	34,675	115,654	37,636	9,259
Scotland	68,201	5,436	10,659	37,673	11,634	2,734
Ireland	1,041,225	66,025	150,675	620,514	170,176	32,268
Germany	971,544	80,224	160,989	518,488	149,171	31,836
Canada	68,682	7,429	13,429	39,768	6,855	1,081
France	33,291	1,997	4,381	19,136	6,306	1,420
Scandinavia	52,895	6,638	7,710	32,754	5,028	670
Bohemia	13,227	1,969	2,959	6,708	1,322	258
Hungary	20,848	3,251	3,819	11,865	1,544	164
Italy	91,500	15,035	16,810	50,077	8,316	952
Other foreign countries	216,325	31,116	42,825	118,137	20,820	3,097

The following table shows for the group of population included in the preceding table, with the same subdivisions as to age groups, color, and, for the whites, of birthplaces of mothers, the number of deaths, and the corresponding death rates per 1,000 for the census year:

COLOR AND BIRTHPLACES OF MOTHERS.	Under 1 year.		Under 5 years.		5 to 15 years.		15 to 45 years.		45 to 65 years.		65 years and over.	
	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.
White	33,091	316.01	47,299	97.53	5,050	5.85	37,083	15.49	18,263	27.97	13,970	89.77
Colored	2,147	598.88	2,896	184.68	356	10.98	1,679	16.27	782	33.66	530	102.57
Birthplaces of mothers (white):												
United States	14,727	279.76	21,026	85.12	2,274	5.56	5,373	7.01	3,730	16.63	4,770	69.15
England and Wales	1,038	285.32	1,481	86.78	187	5.39	1,108	9.58	955	25.37	856	92.45
Scotland	369	269.63	446	82.05	60	5.63	398	10.56	308	26.47	247	90.34
Ireland	4,782	334.80	7,171	108.61	1,038	6.89	10,335	16.66	6,923	40.68	3,754	116.34
Germany	5,439	325.10	7,833	97.64	881	5.47	5,167	9.42	4,061	27.22	2,548	80.64
Canada	514	312.08	752	101.22	100	7.45	480	12.07	149	21.74	76	70.31
France	149	387.01	184	92.14	22	5.02	163	8.52	165	26.17	131	92.25
Scandinavia	486	310.74	684	103.04	61	7.91	362	11.05	126	25.06	51	76.12
Bohemia	214	468.27	290	147.28	12	4.06	104	15.50	45	34.04	23	89.15
Hungary	263	316.11	369	113.50	21	5.50	97	8.18	47	30.44	16	97.56
Italy	1,453	393.13	2,259	150.25	99	5.89	516	10.30	187	22.50	81	88.24
Other foreign countries	1,913	266.25	2,625	84.36	159	3.71	880	7.45	505	24.26	257	82.98

It will be seen from this table that in every age group the death rate of the colored was higher than that of the whites, and that the difference was much greater for those under 15 years of age than for those above that age.

Among the whites, for infants under 1 year of age, the death rate was highest among the children of mothers born in Bohemia (468.27), in Italy (393.13), and in France (387.01), and lowest among the children of mothers born in Scotland (269.63), in the United States (279.76), and in England and Wales (285.32).

For children under 5 years of age, among the whites, the death rate was highest among the children of mothers born in Italy (150.25), in Bohemia (147.28), and in Hungary (113.50), and was lowest among the children of mothers born in Scotland (82.05), in the United States (85.12), and in England and Wales (86.78). In this age group it was higher among the children of mothers born in Ireland (108.61) than among the children of mothers born in Germany (97.64).

In the age group 5 to 15 years, among the whites, the death rate was highest among the children of mothers born in Scandinavia (7.91), in Canada (7.45), and in Ireland (6.89), and was lowest among the children of mothers born in Bohemia (4.06), in France (5.02), and in England and Wales (5.39).

In the age group 15 to 45 years, among the whites, the death rate was highest among the children of mothers born in Ireland (16.66), in Bohemia (15.50), and in Canada (12.07), and was lowest among the children of mothers born in the United States (7.01), in Hungary (8.18), and in France (8.52).

In the age group 45 to 65 years, among the whites, the death rate was highest among the children of mothers born in Ireland (40.68), in Bohemia (34.04), and in Hungary (30.44), and was lowest among the children of mothers born in the United States (16.63), in Canada (21.74), and in Italy (22.50).

In the age group 65 years and over the death rate, among the whites, was highest among the children of mothers born in Ireland (116.34), in Hungary (97.56), and in England and Wales (92.45), and was lowest among the children of mothers born in the United States (69.15), in Canada (70.31), and in Scandinavia (76.12).

The following table shows for the registration states the average age at death of those reported as having died during the census year, at all ages and for those 15 years of age and over, with distinction of sex, color, general nativity, parental nativity, and for the whites of birthplaces of mothers:

SEX, COLOR, NATIVITY, PARENTAL NATIVITY, AND BIRTHPLACES OF MOTHERS.		AVERAGE AGE AT DEATH.	
		All ages.	15 years and over.
Total		32.27	52.76
White		32.48	52.12
Native born		25.75	51.52
Both parents native	Males	34.19	57.02
	Females	34.95	57.44
One or both parents foreign	Males	10.12	32.30
	Females	11.28	34.29
Foreign born	Males	51.01	53.02
	Females	52.05	54.25
Colored		23.77	45.25
Birthplaces of mothers (white):			
United States	Males	31.96	56.30
	Females	32.84	56.99
England and Wales	Males	35.78	53.77
	Females	35.12	53.52
Scotland	Males	37.39	53.51
	Females	38.13	53.52
Ireland	Males	34.85	47.05
	Females	38.08	49.39
Germany	Males	30.55	49.57
	Females	29.31	50.25
Canada	Males	17.54	44.58
	Females	19.89	42.85
France	Males	41.13	55.02
	Females	37.86	55.37
Scandinavia	Males	20.17	41.12
	Females	17.71	39.58
Russia and Poland	Males	12.92	42.81
	Females	10.80	41.28
Bohemia	Males	17.27	42.50
	Females	15.90	43.34
Hungary	Males	13.82	39.70
	Females	11.98	39.80
Italy	Males	13.03	40.71
	Females	9.77	40.18
Other foreign countries	Males	24.52	46.45
	Females	21.68	47.95

It will be seen that in the aggregate the average age at death was greatest among the children of mothers born in France and least among the children of mothers born in Italy. Excluding those under 15 years of age, the average age at death was higher among the whites (52.12 years) than among the colored (45.25 years). Among the whites it was greatest among the children of mothers born in the United States (males 56.30 years, females 56.99 years) and least among the children of mothers born in Hungary (males 39.70 years, females 39.80 years).

The relations of race to the mortality from certain forms of disease are indicated in Section X.

SECTION VI.

CONJUGAL CONDITION, IN RELATION TO DEATHS.

Tables 2, 3, and 4, Part IV, of this report, furnish data as to deaths in the United States and in registration areas, with distinction of the conjugal condition of the decedents, and with further distinctions of sex, color, general nativity, parental nativity, birthplaces of mothers, of certain age groups, and of certain causes of death for the census year ending May 31, 1890.

Of the total 875,521 deaths reported in the United States during the census year, 367,187 were of persons under 15 years of age, and 9,404 of unknown age. Of those 15 years of age and over, whose ages are known, there were reported as single, males, 68,232; females, 45,531; as married, males, 135,939; females, 116,931; as widowed, males, 29,214; females, 55,745; as divorced, males, 592; females, 522; as unknown, males, 29,027; females, 19,909.

In the registration area, of the 409,125 deaths reported, 177,714 were of persons under 15 years of age, and 2,127 of unknown age. Of those 15 years of age and over, whose ages were known, there were single, males, 31,761; females, 20,989; married, males, 61,142; females, 48,973; widowed, males, 15,728; females, 31,879; divorced, males, 76; females, 88; unknown, males, 13,280; females, 9,104.

The following table shows for the registration area, and also for the registration states, with distinction of cities and rural districts, the death rates for certain age groups per 1,000 of population of corresponding ages, with distinction of conjugal condition, sex, color, and general nativity:

Conjugal condition and sex.	Registration area.								Registration states.							
	15 years and over.		15 to 45 years.		45 to 65 years.		65 years and over.		15 years and over.		15 to 45 years.		45 to 65 years.		65 years and over.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Single	10.94	8.61	9.29	6.70	31.29	22.00	87.06	84.52	11.41	9.17	9.60	6.98	31.14	21.05	86.50	85.24
Married	16.66	13.42	8.95	9.63	19.83	16.80	65.43	60.24	17.14	13.73	8.92	9.87	19.26	16.44	62.14	52.38
Widowed	56.11	36.74	21.01	12.22	36.56	21.84	100.10	76.40	62.62	43.16	25.81	14.65	39.84	24.94	104.00	81.75
White:																
Single	10.57	8.32	8.94	6.47	30.65	21.67	87.28	84.23	11.28	9.07	9.46	6.84	30.92	21.67	86.92	85.52
Married	16.54	13.29	8.75	9.43	19.61	16.61	64.92	59.85	17.07	13.65	8.81	9.76	19.12	16.33	61.95	52.23
Widowed	56.51	37.60	21.75	12.20	36.35	21.85	99.74	76.59	62.75	43.42	25.48	14.69	39.75	24.82	103.96	81.71
Native born—																
Single	9.29	7.82	8.26	6.36	24.23	18.36	78.10	77.04	10.07	8.54	8.83	6.70	23.98	17.80	76.80	77.34
Married	14.35	11.72	7.76	8.91	15.66	13.66	60.73	51.49	15.06	12.19	7.64	9.13	14.98	13.22	58.38	46.80
Widowed	50.41	35.68	17.77	10.82	26.81	17.17	94.78	73.84	55.90	41.23	20.39	12.70	27.66	18.36	96.15	76.36
Foreign born—																
Single	13.03	9.22	9.99	6.35	36.06	26.46	93.92	95.12	13.82	10.02	10.60	6.87	39.59	28.46	99.60	102.55
Married	18.80	15.21	9.84	9.92	23.13	19.50	68.19	70.64	19.50	15.71	10.42	10.64	23.96	20.35	65.59	60.90
Widowed	61.24	38.22	27.83	14.09	43.81	25.41	101.00	76.29	69.40	44.36	33.76	17.37	51.23	30.58	110.89	86.45
Colored:																
Single	17.48	14.45	15.68	13.05	40.75	30.93	82.21	93.44	16.61	13.71	14.78	12.61	38.63	20.30	69.93	70.18
Married	19.24	16.25	12.76	13.39	25.39	23.08	84.70	77.39	20.68	17.48	13.34	14.21	26.46	23.75	77.25	65.15
Widowed	48.30	26.49	23.70	12.31	40.47	21.67	113.36	72.13	57.00	35.12	35.45	14.02	43.26	28.77	106.97	83.00

DEATH RATES, BY CONJUGAL CONDITION—Continued.

CONJUGAL CONDITION AND SEX.	CITIES IN REGISTRATION STATES.								RURAL PART OF REGISTRATION STATES.							
	15 years and over.		15 to 45 years.		45 to 65 years.		65 years and over.		15 years and over.		15 to 45 years.		45 to 65 years.		65 years and over.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Single	13.16	9.45	11.35	7.44	41.67	25.68	110.75	96.32	8.58	8.65	6.66	6.66	19.37	16.27	73.14	75.64
Married	18.84	15.19	10.88	11.43	24.17	20.00	73.90	64.93	14.81	11.72	5.62	7.32	13.32	12.63	54.81	45.01
Widowed	68.46	43.26	31.94	16.27	51.20	28.70	120.88	89.92	56.01	43.00	14.98	10.02	23.53	17.55	91.87	73.71
White:																
Single	12.97	9.31	11.17	7.28	41.33	25.68	110.80	96.51	8.55	8.60	6.62	5.97	19.43	16.38	73.84	76.06
Married	18.73	15.03	10.75	11.32	24.00	19.84	73.57	64.48	14.82	11.70	5.59	7.26	13.29	12.61	54.76	45.08
Widowed	68.56	43.58	31.47	16.36	51.15	28.59	120.85	89.93	56.24	43.18	15.04	10.11	23.53	17.54	91.91	73.73
Native born—																
Single	11.56	8.59	10.55	7.17	31.78	20.22	96.73	85.34	8.03	8.45	6.30	5.93	18.00	15.66	69.22	72.36
Married	16.03	13.33	9.75	10.91	18.96	15.59	76.01	57.02	14.22	11.15	5.31	7.14	12.21	11.73	53.72	42.84
Widowed	58.30	39.04	26.89	14.19	36.48	20.18	113.82	84.04	54.29	43.32	12.27	9.76	20.67	16.43	88.73	71.69
Foreign born—																
Single	15.46	10.52	12.03	7.20	49.14	31.74	122.10	113.16	9.29	7.86	6.48	5.43	20.71	16.73	74.40	72.66
Married	20.98	16.79	11.63	11.60	27.37	22.96	75.55	71.38	15.11	12.39	5.92	7.01	15.12	14.08	51.18	46.34
Widowed	75.47	46.51	36.96	18.76	59.65	33.59	123.29	93.32	54.67	36.53	22.05	9.93	27.42	18.40	89.72	69.05
Colored:																
Single	19.87	14.49	17.63	13.21	51.44	25.62	109.20	87.79	9.80	11.40	8.66	10.79	16.81	7.94	43.14	46.39
Married	23.23	19.30	15.52	15.40	31.53	28.63	92.74	92.74	14.58	12.96	7.44	10.80	15.33	14.52	60.36	36.68
Widowed	64.71	35.68	43.82	15.10	53.11	31.73	122.56	89.41	42.12	32.97	12.38	7.66	23.41	17.30	87.72	71.43

It will be seen from this table that in the registration area, for single persons 15 years of age and over, the death rate was higher among males (10.94) than among females (8.61), and this difference exists in each of the four age groups for which the data are given. The same is true for the total of the registration states and for the cities in the registration states; but in the rural districts of these states among single persons 15 years of age and over the death rate of the females (8.65) was very slightly higher than that of the males (8.58).

For the married in the registration area the death rate for those 15 years of age and over, taken as a whole, was higher than for the single in the same age group, and was higher among males (16.66) than among females (13.42). If, however, we take the age group 15 to 45 years, the death rate of the single males (9.29) was higher than that of the married males (8.95), while the death rate of the married females (9.63) exceeded that of the married males and also that of the single females (6.79).

In the age group 45 to 65 years the death rate of the single males (31.29) was decidedly higher than that of the married males (19.83), and the death rate of the single females (22.00) was also decidedly higher than that of the married females (16.80).

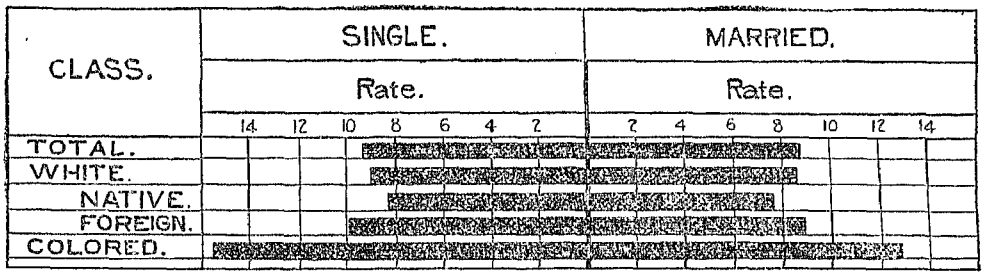
In each group the death rate of the widowed was higher than that of the married or of the single of both sexes.

In the age group 15 to 45 years the death rate of the widowed males was 21.91, or more than twice as high as that of either single or married males for this age group. The death rate of widowed females was 12.22, or nearly twice as high as that of single females of the same age.

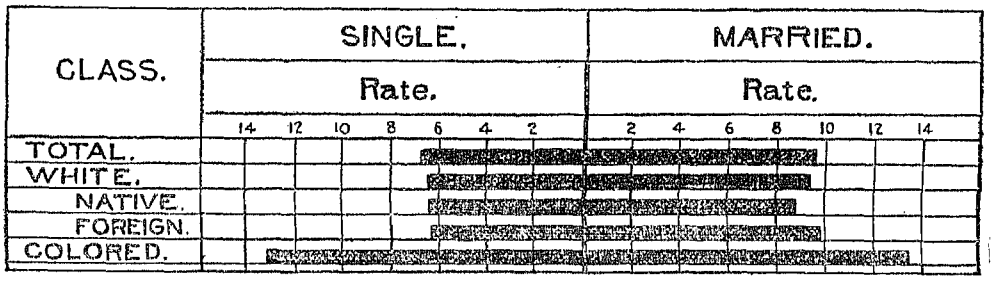
In the age group 45 to 65 years the death rate of the widowed males was 36.56 as against 31.29 for the single and 19.83 for the married males of this age group. For the widowed females between 45 and 65 years it was 21.84, being about the same as for single females of the same age group (22.00) and higher than that of the married females of the same age group (16.80).

The same relative differences occur in the figures for the total of the registration states in the cities and in the rural districts.

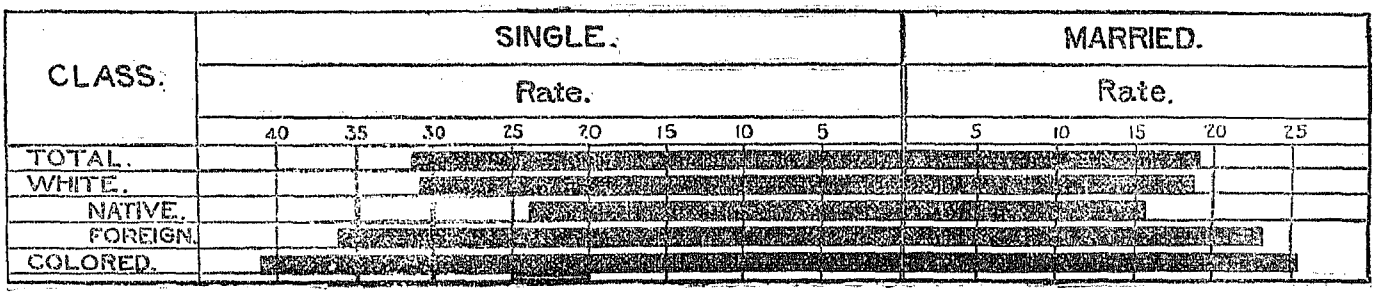
The following diagram shows the relative magnitude of the death rates per 1,000 of population in the registration area of males 15 to 45 years of age, with distinction of single and married, and of color and general nativity:



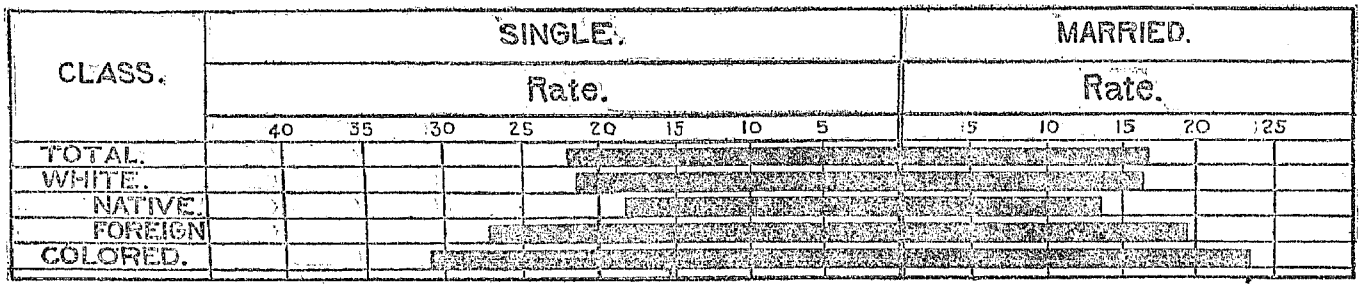
The following diagram shows the relative magnitude of the death rates per 1,000 of population of the corresponding ages in the registration area, for females from 15 to 45 years of age, with distinctions of single and married, and of color and general nativity:



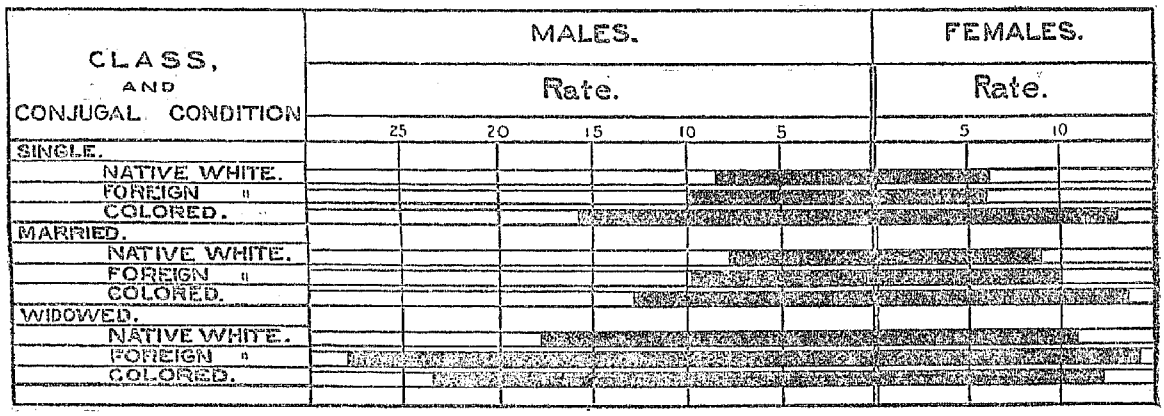
The following diagram shows the relative magnitude of the death rates per 1,000 of population of the corresponding ages, in the registration area, of males from 45 to 65 years of age, with distinction of single and married, and of color and general nativity:



The following diagram shows the relative magnitude of the death rates per 1,000 of population of the corresponding ages, in the registration area, of females from 45 to 65 years of age, with distinction of single and married, and of color and general nativity:



The following diagram shows the relative magnitude of the death rates per 1,000 of population of the corresponding ages and conditions of males and females 15 to 45 years of age, with distinction of conjugal condition and of color and general nativity:



The following table shows for the whites in the registration states, the cities in the registration states, and the rural districts of the registration states the death rate of the single, married, and widowed in each of three age groups, with distinction of sex and of birthplaces of mothers:

Birthplaces of mothers, conjugal condition, and sex.		Registration states.			Cities in registration states.			Rural part of registration states.		
		15 to 45 years.	45 to 65 years.	65 years and over.	15 to 45 years.	45 to 65 years.	65 years and over.	15 to 45 years.	45 to 65 years.	65 years and over.
United States:										
Single	Males	5.71	17.99	56.98	6.68	23.70	73.41	4.85	14.35	51.31
	Females	5.07	14.57	61.18	5.25	17.27	69.44	4.89	12.46	56.35
Married	Males	5.17	11.68	43.01	6.51	15.24	54.44	4.10	9.44	38.59
	Females	6.47	10.26	34.34	7.76	12.66	43.33	5.46	8.90	30.95
Widowed	Males	12.63	19.60	68.82	16.47	26.60	91.34	9.38	14.87	59.77
	Females	8.20	14.17	57.09	8.95	16.42	68.01	7.16	12.05	50.68
England and Wales:										
Single	Males	7.57	32.02	69.54	8.17	36.63	93.75	6.30	25.02	50.13
	Females	5.67	19.79	94.42	5.55	19.38	110.63	5.98	20.65	63.03
Married	Males	7.60	18.37	61.79	8.70	21.31	70.32	5.24	13.46	53.18
	Females	8.04	15.36	48.82	9.09	17.17	51.99	5.82	12.53	45.73
Widowed	Males	19.39	34.49	112.83	20.23	42.12	119.28	17.24	20.00	105.81
	Females	9.55	20.64	82.20	11.01	23.17	91.99	4.69	14.16	65.64
Ireland:										
Single	Males	13.88	41.42	111.23	15.74	51.84	134.01	8.44	20.27	86.28
	Females	8.26	28.43	106.19	8.96	32.30	117.59	5.77	13.89	72.42
Married	Males	14.62	27.21	74.09	16.63	31.50	87.72	7.32	16.59	56.40
	Females	14.97	24.57	71.98	16.78	29.07	89.21	8.58	14.58	50.51
Widowed	Males	39.11	57.79	112.97	42.58	67.09	120.64	24.82	29.91	83.68
	Females	21.18	36.18	98.09	23.17	40.29	107.84	10.85	19.96	73.31

DEATH RATES BY CONJUGAL CONDITION AND BIRTHPLACES OF MOTHERS—Continued.

BIRTHPLACES OF MOTHERS, CONJUGAL CONDITION, AND SEX.		REGISTRATION STATES.			CITIES IN REGISTRATION STATES.			RURAL PART OF REGISTRATION STATES.		
		15 to 45 years.	45 to 65 years.	65 years and over.	15 to 45 years.	45 to 65 years.	65 years and over.	15 to 45 years.	45 to 65 years.	65 years and over.
Scotland:										
Single	Males	8.38	36.70	93.12	9.95	44.05	141.41	4.26	23.50	60.81
	Females	6.45	17.18	48.08	6.32	20.11	62.50	6.83	11.95	29.41
Married	Males	8.44	19.33	63.45	9.70	23.84	75.37	4.87	10.41	59.92
	Females	8.41	15.32	46.34	9.25	17.63	53.10	6.34	11.37	39.83
Widowed	Males	25.28	42.59	110.92	28.02	53.55	128.29	17.75	19.56	92.20
	Females	8.86	21.06	79.93	10.51	23.47	90.81	2.65	13.70	62.44
France:										
Single	Males	6.78	23.89	100.84	7.70	30.61	135.59	4.68	12.71	66.67
	Females	5.00	22.36	60.61	4.58	12.15	81.63	6.38	60.61	.....
Married	Males	8.64	24.05	60.94	9.82	33.88	63.76	5.53	6.40	58.00
	Females	5.66	16.19	60.74	6.29	18.44	71.43	3.90	11.94	49.33
Widowed	Males	37.50	24.71	132.48	44.94	29.97	154.72	16.13	12.53	163.45
	Females	14.80	16.75	71.26	17.46	17.02	84.46	.....	15.50	43.17
Germany:										
Single	Males	8.44	38.32	105.26	9.32	48.52	124.81	4.89	15.23	75.51
	Females	4.76	33.93	114.46	5.05	37.28	114.56	3.25	21.24	114.75
Married	Males	9.83	24.49	61.21	10.90	27.01	68.49	4.91	15.49	45.12
	Females	8.40	16.73	56.72	9.04	18.65	60.63	5.33	12.19	48.31
Widowed	Males	32.59	53.00	112.86	37.29	59.07	121.47	10.74	30.69	92.84
	Females	14.03	23.89	74.82	14.33	24.97	76.61	11.74	17.70	68.17
Canada:										
Single	Males	6.82	24.07	62.80	7.91	22.47	81.40	5.07	26.28	49.59
	Females	6.82	20.37	132.78	7.23	18.49	136.05	5.70	24.79	127.66
Married	Males	5.90	12.63	45.30	6.95	15.34	49.05	4.40	9.16	42.43
	Females	8.80	14.77	51.01	10.00	15.63	71.43	6.97	13.67	36.54
Widowed	Males	13.67	27.15	84.84	17.24	34.33	83.86	8.43	18.14	85.68
	Females	9.34	19.03	60.97	9.33	20.09	58.28	9.37	16.77	61.32
Scandinavia:										
Single	Males	9.40	49.30	78.65	10.50	64.24	75.00	7.09	20.58	81.63
	Females	5.69	13.47	138.89	6.08	17.39	71.43	4.62	.....	375.00
Married	Males	9.35	18.52	47.30	10.19	20.19	57.50	7.08	14.41	30.43
	Females	9.73	14.77	41.30	10.82	15.31	40.00	6.85	13.65	43.17
Widowed	Males	18.18	25.06	95.65	13.65	33.56	118.11	32.61	7.69	67.96
	Females	18.40	11.45	61.80	19.97	10.10	58.51	12.50	15.63	69.62
Hungary:										
Single	Males	8.95	36.59	.....	11.55	47.62	.....	3.74	25.00	.....
	Females	5.15	.....	.....	5.14	.....	.....	5.24	.....	.....
Married	Males	8.06	29.26	138.89	7.99	33.25	169.49	8.32	11.17	.....
	Females	7.98	28.95	64.52	8.46	32.02	80.00	4.38	.....	.....
Widowed	Males	54.05	18.87	148.15	76.92	20.41	95.24	.....	.....	333.33
	Females	18.90	33.47	67.80	19.87	34.93	55.56	.....	.....	200.00
Bohemia:										
Single	Males	12.59	115.38	.....	13.58	130.43	.....	5.43	.....	.....
	Females	7.84	90.91	200.00	8.37	95.24	250.00	.....	.....	.....
Married	Males	20.54	30.77	83.33	21.54	33.49	98.50	10.42	11.36	.....
	Females	13.63	18.00	35.71	14.87	20.50	42.55	.....	.....	.....
Widowed	Males	111.11	18.18	148.15	83.33	20.00	125.00	333.33	.....	333.33
	Females	34.97	39.22	63.38	36.50	42.02	67.67	.....	.....	.....
Italy:										
Single	Males	8.20	21.47	87.72	10.46	28.62	119.05	2.81	10.42	.....
	Females	10.39	38.46	153.85	10.14	44.12	181.82	12.59	.....	.....
Married	Males	7.43	18.66	69.12	8.41	20.44	77.96	3.25	11.66	16.13
	Females	10.62	14.05	51.28	11.31	14.85	56.34	3.88	7.30	.....
Widowed	Males	41.67	33.11	112.58	47.95	28.35	118.11	.....	61.54	83.33
	Females	11.55	28.64	87.88	12.44	32.09	90.00	.....	.....	66.67
Other foreign countries:										
Single	Males	6.78	39.39	82.42	7.53	48.89	109.09	3.97	15.59	41.67
	Females	5.40	29.30	75.76	5.35	33.57	101.01	5.71	10.53	.....
Married	Males	6.77	19.54	62.33	7.00	20.95	69.47	5.32	13.31	43.03
	Females	6.41	14.00	47.06	6.45	14.99	57.40	6.15	9.69	21.98
Widowed	Males	29.75	38.39	95.24	33.68	42.32	112.27	15.38	23.26	56.60
	Females	11.55	22.14	81.27	11.16	22.79	92.12	14.93	17.50	45.95

The following table shows for single white males in the cities and in the rural districts of the registration states the death rates in each of three age groups, with distinction of birthplaces of mothers:

BIRTHPLACES OF MOTHERS.	15 TO 45 YEARS.		45 TO 65 YEARS.		65 YEARS AND OVER.	
	Cities.	Rural.	Cities.	Rural.	Cities.	Rural.
United States	6.68	4.85	23.70	14.95	73.41	51.31
England and Wales	8.17	6.30	36.63	25.02	93.75	50.13
Ireland	15.74	8.44	51.84	20.27	134.01	86.68
Scotland	9.95	4.26	44.05	23.50	141.41	60.81
France	7.70	4.68	30.61	12.71	135.59	66.67
Germany	9.32	4.89	48.52	15.23	124.81	75.51
Canada	7.91	5.07	22.47	26.28	81.40	49.59
Scandinavia	10.56	7.09	64.24	20.58	75.00	81.63
Italy	10.40	2.81	28.62	10.42	119.05	.....

This table indicates that for single white males from 15 to 45 years of age the death rate was highest in the children of mothers born in Ireland, both in the cities and in the rural districts, and that the death rate in adult males of all ages of this class was high as compared with the corresponding rates for the children of mothers born in the United States or in Germany.

The following table shows for single white females in cities and in the rural districts in the registration states the death rates in each of three age groups, with distinction of birthplaces of mothers:

BIRTHPLACES OF MOTHERS.	15 TO 45 YEARS.		45 TO 65 YEARS.		65 YEARS AND OVER.	
	Cities.	Rural.	Cities.	Rural.	Cities.	Rural.
United States	5.25	4.89	17.27	12.46	69.44	56.35
England and Wales	5.55	5.98	19.38	20.65	110.63	63.03
Ireland	8.96	5.77	32.30	13.89	117.59	72.42
Scotland	6.32	6.83	20.11	11.95	62.50	29.41
France	4.58	6.38	12.15	60.61	81.63	.....
Germany	5.05	3.25	37.28	21.24	114.36	114.75
Canada	7.28	5.70	18.49	24.79	136.05	127.66
Scandinavia	6.08	4.62	17.39	.....	71.43	375.00
Italy	10.14	12.59	44.12	.....	181.82	.....

The following table shows for the registration states the death rate from each of certain causes per 100,000 of population during the census year, with distinction of conjugal condition, sex, color, and general nativity:

COLOR, NATIVITY, AND CAUSE OF DEATH.	SINGLE.		MARRIED.		WIDOWED.	
	Males.	Females.	Males.	Females.	Males.	Females.
Total:						
Alcoholism	8.61	1.10	14.27	5.14	47.87	8.79
Consumption	206.22	176.48	281.00	289.14	651.64	346.56
Cancer and tumor	8.02	17.34	66.43	100.17	196.91	265.53
Suicides	6.81	2.17	19.12	4.92	52.76	7.30
General diseases—A	553.87	544.53	117.11	104.35	368.79	286.68
Diseases of the nervous system	223.86	206.10	225.07	143.65	923.60	657.06
Diseases of the circulatory system	69.15	64.36	199.91	142.06	804.48	515.16
Diseases of the respiratory system	347.98	299.92	306.38	206.33	1,059.59	843.19
Diseases of the digestive system	66.65	58.73	95.01	88.57	294.35	213.70
Diseases of the urinary system	37.41	27.51	138.20	81.71	514.02	207.15
Diseases of the female organs of generation	.....	3.58	.....	15.78	.....	16.09
Accidents and injuries	102.46	33.45	107.17	26.59	216.49	92.25
All other causes	472.39	395.43	129.36	154.50	1,085.15	808.76
Unknown	18.82	16.30	16.50	12.31	67.45	42.66
White:						
Alcoholism	8.73	1.09	14.35	5.16	47.84	8.90
Consumption	197.93	169.73	275.12	284.70	638.08	344.43
Cancer and tumor	8.13	17.56	66.96	101.00	200.27	268.43
Suicides	6.86	2.09	19.44	5.03	53.96	7.54
General diseases—A	550.67	540.25	116.49	103.25	368.27	288.73
Diseases of the nervous system	221.71	203.63	225.19	143.98	920.03	663.71
Diseases of the circulatory system	68.80	64.04	199.69	140.87	808.31	515.19
Diseases of the respiratory system	341.14	293.33	305.21	205.42	1,064.77	853.62
Diseases of the digestive system	65.53	57.83	95.12	88.84	266.47	217.18
Diseases of the urinary system	37.19	27.56	137.58	80.98	515.14	207.89
Diseases of the female organs of generation	.....	3.44	.....	15.49	.....	15.86
Accidents and injuries	101.03	32.81	107.50	26.31	217.51	93.02
All other causes	461.69	385.67	129.58	154.87	1,089.25	811.66
Unknown	18.43	15.79	16.49	12.21	66.75	42.55
Native born white:						
Alcoholism	6.43	0.61	10.67	3.83	31.09	3.04
Consumption	170.94	155.50	229.73	268.46	462.01	313.44
Cancer and tumor	6.36	14.61	56.64	94.78	159.96	272.25
Suicides	4.88	1.60	16.30	4.46	42.34	9.71
General diseases—A	603.74	594.46	108.90	94.30	311.46	250.82
Diseases of the nervous system	242.30	221.99	228.19	140.99	920.25	725.61
Diseases of the circulatory system	65.11	60.35	191.93	121.41	845.57	483.90
Diseases of the respiratory system	358.60	312.96	239.66	161.20	835.57	757.49
Diseases of the digestive system	68.22	58.56	77.55	75.06	212.66	169.57
Diseases of the urinary system	31.51	24.05	125.28	65.58	457.30	141.32
Diseases of the female organs of generation	.....	3.01	.....	14.50	.....	16.41
Accidents and injuries	86.64	32.38	79.67	20.63	163.73	85.39
All other causes	535.61	437.81	124.62	143.64	1,063.98	814.75
Unknown	19.10	15.94	17.25	11.22	63.98	44.87
Foreign born white:						
Alcoholism	19.00	3.12	19.10	7.19	66.68	16.02
Consumption	320.78	231.33	338.56	303.86	869.60	375.79
Cancer and tumor	16.42	31.39	78.94	108.35	253.13	245.34
Suicides	13.10	3.74	23.25	5.55	65.32	4.12
General diseases—A	209.55	199.78	123.71	115.42	427.32	327.73
Diseases of the nervous system	101.64	90.02	200.55	140.39	837.29	546.07
Diseases of the circulatory system	79.60	79.62	202.99	168.14	730.79	530.50
Diseases of the respiratory system	227.44	165.27	400.12	276.87	1,358.16	955.73
Diseases of the digestive sytem	46.48	50.52	118.53	109.99	334.78	241.22
Diseases of the urinary system	60.87	44.07	151.67	105.45	577.01	291.57
Diseases of the female organs of generation	.....	5.41	.....	16.90	.....	14.65
Accidents and injuries	141.48	29.10	140.39	35.07	277.62	96.58
All other causes	64.75	74.01	130.50	168.14	1,012.49	751.58
Unknown	11.25	9.56	14.04	11.98	66.68	36.02
Colored:						
Alcoholism	3.76	1.34	10.44	4.22	48.92	5.78
Consumption	550.15	457.70	555.43	497.77	1,247.55	410.14
Cancer and tumor	3.76	8.03	41.76	61.17	48.92	179.08
Suicides	5.01	5.35	4.18	.....	.....	.....
General diseases—A	686.75	722.69	146.17	156.08	391.39	225.29
Diseases of the nervous system	313.30	309.15	219.25	156.08	684.93	456.36
Diseases of the circulatory system	83.96	77.62	238.04	198.27	636.01	514.12
Diseases of the respiratory system	681.61	574.14	361.24	248.89	831.70	531.45
Diseases of the digestive system	112.79	96.36	89.79	75.93	171.23	109.76
Diseases of the urinary system	46.37	25.43	167.05	116.01	464.77	184.85
Diseases of the female organs of generation	.....	9.37	.....	29.53	.....	23.11
Accidents and injuries	101.66	60.22	91.88	40.08	171.23	69.32
All other causes	916.09	801.65	119.02	137.10	905.09	722.08
Unknown	35.09	37.47	16.70	16.87	97.85	46.21

In considering the figures of the preceding table, it must be borne in mind that the widowed and the married include a group of population of more advanced ages than the single, and that therefore the death rates from those diseases to which persons 45 years of age and over are specially liable, will be less among the single than among

the married or the widowed. For example, the death rate from cancer and tumor in single females, per 100,000 of population (17.34), was much lower than it was among the married (100.17), and very much lower than it was among the widowed (265.53).

The relations of conjugal condition to each of the causes or groups of causes of death indicated in this table are discussed in Section IX on the causes of death.

The following table shows for the registration area and its subdivisions the proportion of deaths of single, married, and widowed, in each of certain age groups, per 1,000 of the total deaths in those age groups, with distinction of sex, color, and general nativity:

AREA, COLOR, SEX, NATIVITY, AND CONJUGAL CONDITION.	AGES.							
	15 years and over.		15 to 45 years.		45 to 65 years.		65 years and over.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Aggregate:								
Single—								
Registration area	264.76	191.99	489.96	335.91	116.87	95.37	64.91	80.17
Cities	280.67	197.51	481.77	329.96	118.33	93.45	64.23	76.72
States	261.92	196.41	524.97	358.32	116.62	104.05	65.54	88.27
Cities	292.03	209.27	519.86	355.41	119.36	104.84	64.98	89.67
Rural	208.42	174.02	540.12	365.66	110.54	102.43	66.02	86.78
Cities in nonregistration states	269.22	184.02	446.04	304.01	117.25	79.00	63.39	60.28
Married—								
Registration area	509.68	447.97	380.53	540.26	665.91	537.16	547.46	249.47
Cities	501.33	451.45	381.30	536.88	657.88	514.91	546.01	242.37
States	532.87	443.12	403.26	559.53	693.71	546.06	547.61	234.78
Cities	529.29	446.84	412.52	560.47	690.56	510.57	545.03	208.33
Rural	539.24	436.64	375.80	557.15	760.73	618.96	549.79	263.04
Cities in nonregistration states	473.17	456.72	352.01	512.83	623.46	520.40	547.10	285.54
Widowed—								
Registration area	131.11	291.61	26.68	53.07	120.60	299.28	305.86	604.84
Cities	116.72	276.76	26.61	56.56	123.54	318.88	307.05	609.03
States	156.21	326.67	32.56	56.89	137.71	314.39	323.31	635.01
Cities	141.66	319.00	34.41	65.29	151.14	356.82	347.83	670.71
Rural	182.07	340.01	27.07	35.67	107.80	227.23	311.78	596.85
Cities in nonregistration states	91.60	228.31	19.30	47.64	94.48	270.80	261.90	530.79
White:								
Single—								
Registration area	260.40	190.04	492.18	336.38	114.43	96.40	64.84	81.10
Cities	276.69	195.69	483.89	330.32	115.45	94.43	64.18	77.86
States	259.43	194.96	524.25	350.72	115.61	104.88	65.26	88.57
Cities	289.63	207.85	519.24	353.70	118.07	105.70	64.55	90.10
Rural	206.70	172.93	538.85	364.22	110.22	103.20	65.85	86.97
Cities in nonregistration states	262.12	179.97	445.90	302.86	112.43	78.58	63.73	60.83
Married—								
Registration area	519.32	455.38	388.99	553.45	676.30	548.18	550.72	253.91
Cities	512.97	461.40	391.15	552.23	670.03	527.23	551.31	248.33
States	534.07	443.91	404.08	562.39	694.71	548.06	547.55	235.67
Cities	530.52	447.87	413.41	563.74	691.42	512.49	544.85	208.79
Rural	540.27	437.13	376.86	559.05	701.91	619.88	549.81	264.00
Cities in nonregistration states	493.20	478.80	367.23	538.71	645.27	548.44	550.06	303.37
Widowed—								
Registration area	134.91	295.86	26.85	50.19	121.31	296.71	311.74	607.89
Cities	120.37	280.93	26.79	53.34	124.71	317.09	311.61	614.33
States	157.37	327.33	32.27	55.78	137.70	311.42	328.70	633.95
Cities	142.78	319.25	34.01	63.85	151.51	353.57	348.68	669.75
Rural	182.84	341.15	27.21	35.75	107.44	223.29	311.95	596.22
Cities in nonregistration states	95.13	231.38	19.02	40.99	93.69	265.81	267.17	537.20
Native born white:								
Single—								
Registration area	316.05	238.75	557.45	385.25	123.45	123.18	64.00	95.62
Cities	302.05	263.43	555.80	385.72	128.85	126.04	64.63	96.85
States	302.88	233.38	589.58	403.28	124.03	128.79	63.99	99.11
Cities	377.77	273.61	601.01	414.22	135.94	139.82	64.81	106.44
Rural	218.01	189.99	564.53	383.59	112.00	118.16	63.56	94.33
Cities in nonregistration states	344.20	251.19	508.46	355.89	120.97	109.30	64.37	81.16

PROPORTION OF DEATHS AT CERTAIN AGES, BY CONJUGAL CONDITION—Continued.

AREA, COLOR, SEX, NATIVITY, AND CONJUGAL CONDITION.	AGES.							
	15 years and over.		15 to 4 years.		45 to 65 years.		65 years and over.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Native born white—Continued.								
Married—								
Registration area	486.94	437.58	342.06	514.61	691.94	565.68	569.94	243.96
Cities	459.26	442.11	335.60	501.94	677.55	533.45	571.83	230.22
States	507.24	430.91	351.70	523.63	711.02	580.85	568.62	237.32
Cities	473.09	433.02	343.47	517.50	700.76	537.82	569.25	204.98
Rural	545.94	428.63	369.74	548.65	722.47	622.27	568.29	258.37
Cities in nonregistration states	443.55	453.03	327.37	491.79	651.80	528.14	575.66	271.53
Widowed—								
Registration area	123.84	268.86	23.38	42.59	105.92	254.20	303.54	610.95
Cities	97.33	233.38	23.43	45.46	109.14	276.83	290.57	620.12
States	145.83	302.93	27.09	44.54	112.31	251.71	313.16	623.60
Cities	115.38	269.52	28.89	51.23	124.16	290.39	319.92	657.81
Rural	180.33	338.94	23.13	32.40	99.08	214.47	309.64	601.34
Cities in nonregistration states	76.83	189.95	17.71	39.42	92.48	260.37	262.05	558.46
Foreign born:								
Single—								
Registration area	193.75	123.03	389.82	238.24	106.50	74.84	64.86	60.38
Cities	196.48	124.59	383.36	234.11	106.55	76.22	63.21	62.05
States	200.99	137.56	415.90	264.60	107.84	83.60	66.37	68.98
Cities	207.95	143.47	408.32	261.90	108.11	87.64	63.87	74.86
Rural	174.24	111.39	461.70	280.78	106.64	63.69	71.51	51.29
Cities in nonregistration states	183.14	97.35	353.70	191.64	104.65	58.30	62.52	46.25
Married—								
Registration area	572.70	485.81	483.88	639.53	678.98	538.60	536.09	270.76
Cities	576.04	484.93	488.64	640.39	678.25	527.04	542.60	265.22
States	583.78	470.44	509.15	635.23	692.91	523.79	522.50	235.83
Cities	592.67	465.49	522.11	635.96	694.59	501.86	528.66	214.19
Rural	549.62	492.40	430.92	630.69	685.11	631.97	509.80	300.93
Cities in nonregistration states	556.70	512.97	448.89	647.14	658.24	566.58	557.09	328.13
Widowed—								
Registration area	151.19	335.84	33.66	66.91	134.57	333.51	326.80	610.98
Cities	145.06	333.68	32.95	68.41	135.55	342.81	326.04	612.84
States	175.32	365.52	42.10	79.11	160.47	366.09	360.86	663.13
Cities	170.20	368.56	42.20	89.57	167.86	387.91	375.91	683.83
Rural	194.95	352.03	41.52	51.43	126.26	258.42	329.87	600.88
Cities in nonregistration states	115.82	263.36	21.97	45.32	96.01	271.98	274.17	525.33
Colored:								
Single—								
Registration area	323.20	218.17	468.29	331.31	153.32	79.24	66.72	60.49
Cities	323.75	217.00	463.49	320.87	154.54	80.90	64.97	59.69
States	350.82	246.46	543.68	397.54	158.71	72.03	83.57	71.91
Cities	361.09	248.87	534.23	392.90	159.39	77.52	84.82	73.62
Rural	313.08	237.76	589.10	415.89	129.63	47.06	81.48	69.23
Cities in nonregistration states	314.47	208.18	446.75	300.60	153.19	81.94	60.11	55.91
Married—								
Registration area	380.37	348.39	297.87	411.75	511.08	364.37	467.03	155.73
Cities	375.16	344.81	296.39	407.61	504.99	354.62	457.42	153.79
States	490.25	415.99	381.07	489.14	657.24	468.22	551.53	186.52
Cities	493.96	418.23	391.69	488.76	663.76	449.61	553.57	190.48
Rural	476.64	407.93	335.14	490.65	629.63	552.94	548.15	176.92
Cities in nonregistration states	345.61	324.52	273.84	386.38	460.79	325.38	433.88	143.37
Widowed—								
Registration area	80.11	234.42	24.99	81.14	109.91	339.50	237.83	540.54
Cities	77.11	232.12	25.13	83.68	108.89	341.85	230.90	536.20
States	114.94	303.64	39.96	84.04	137.81	430.08	303.62	692.13
Cities	109.35	312.22	43.77	97.04	139.74	459.95	308.04	707.94
Rural	135.51	272.73	21.62	32.71	129.63	294.12	296.30	653.85
Cities in nonregistration states	69.09	209.97	20.72	80.19	100.30	305.49	212.02	479.71

The following table shows for the registration area, for the year ending May 31, 1890, the death rates from each of certain causes, in certain groups of ages, per 100,000 population of corresponding ages, with distinction of conjugal condition and of sex:

CAUSE OF DEATH, AND CONJUGAL CONDITION.	REGISTRATION AREA.							
	15 years and over.		15 to 45 years.		45 to 65 years.		65 years and over.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Consumption:								
Single	330.44	282.07	314.84	277.50	595.42	312.66	660.51	484.35
Married	278.37	281.65	260.59	301.12	297.78	222.55	338.52	311.05
Widowed	591.48	305.63	803.72	427.58	628.51	251.97	415.38	293.85
Cancer and tumor:								
Single	13.57	30.11	6.95	11.80	103.55	248.69	274.88	472.09
Married	65.70	93.93	16.30	39.54	105.50	200.66	293.19	389.69
Widowed	183.37	234.29	33.09	66.44	155.19	218.58	310.30	380.53
Diseases of the nervous system:								
Single	83.07	74.94	56.12	41.31	382.23	325.45	1,509.81	1,465.31
Married	205.55	131.66	60.32	51.26	253.50	212.04	1,174.58	1,070.06
Widowed	796.60	540.38	127.65	78.42	461.25	306.36	1,603.04	1,219.84
Diseases of the circulatory system:								
Single	72.98	68.09	50.44	42.23	353.29	266.28	1,103.64	1,115.85
Married	186.83	132.01	58.10	61.83	241.98	220.17	991.07	834.84
Widowed	703.49	433.68	159.17	94.91	425.90	270.44	1,365.11	917.91
Diseases of the digestive system:								
Single	43.71	39.62	34.87	31.27	169.03	119.15	365.10	318.81
Married	96.80	88.78	46.23	60.82	138.94	129.98	324.26	329.30
Widowed	258.99	189.23	85.10	72.43	232.78	147.74	398.53	335.35
Diseases of the urinary system:								
Single	48.63	33.43	31.66	22.54	260.40	155.93	820.55	324.94
Married	123.72	71.65	43.34	48.71	156.89	107.21	631.34	257.68
Widowed	434.15	162.49	148.14	66.44	321.58	144.71	743.52	258.95
Diseases of the female organs of generation:								
Single	.....	6.81	.....	5.53	.....	25.59	.....	21.52
Married	.....	17.26	.....	16.29	.....	18.97	.....	23.87
Widowed	.....	16.71	.....	16.48	.....	18.72	.....	13.96
Suicides:								
Single	14.12	5.29	12.12	5.04	51.78	10.40	36.92	3.07
Married	21.83	5.73	14.27	5.26	32.43	6.94	37.29	6.32
Widowed	57.44	7.15	40.97	6.99	63.80	6.07	60.47	8.82

It will be seen from this table that consumption caused a higher death rate among the single than among the married in each sex in the total of those 15 years of age and over, but that in the age group 15 to 45 years it caused a higher death rate among the married females (301.12) than among single females (277.50). Above the age of 45 it caused a higher death rate among the single females than among those that were married.

Cancer and tumor, diseases of the nervous system, diseases of the circulatory system, diseases of the digestive system, and diseases of the urinary organs caused higher death rates among the married than among the single in each sex, and the highest death rates of all among the widowed.

Diseases of the female organs of generation caused a higher death rate among the married than among the single or widowed females 15 years of age and over, but among females 45 years of age and over the death rate from these causes was lower among the married than among the single, and lowest of all among the widows.

The following table shows for the United States and for the registration area the number of deaths in each of three age groups per 1,000 of the total deaths occurring in those 15 years of age and over, unknown age being excluded, with distinction of conjugal condition, of sex, and of certain causes and groups of causes of death:

CAUSE OF DEATH AND CONJUGAL CONDITION.	UNITED STATES.						REGISTRATION AREA.					
	15 to 45 years.		45 to 65 years.		65 years and over.		15 to 45 years.		45 to 65 years.		65 years and over.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
All causes:												
Single	819.79	798.73	108.26	100.35	71.95	100.92	803.78	737.55	129.40	131.06	66.81	131.40
Married	315.25	510.20	365.23	294.93	319.52	164.87	324.28	503.43	383.01	316.41	292.71	175.16
Widowed	77.36	75.48	234.85	252.97	687.79	671.55	88.38	76.73	269.65	270.81	641.98	652.47
Consumption:												
Single	904.87	932.37	74.67	48.56	20.46	19.07	901.71	920.17	81.51	56.86	16.78	22.98
Married	530.48	736.39	347.34	210.85	122.17	52.76	565.05	757.17	344.30	199.73	90.65	43.10
Widowed	278.82	286.16	405.46	367.47	315.71	346.37	307.60	322.78	439.69	375.57	252.71	301.66
Cancer and tumor:												
Single	486.35	403.33	321.34	389.17	192.31	207.50	484.77	366.49	345.17	423.71	170.05	209.81
Married	146.16	294.23	473.61	531.85	380.22	173.92	150.56	298.13	516.80	539.96	332.64	161.90
Widowed	38.78	63.55	286.73	399.35	674.49	597.10	48.86	65.42	350.19	424.99	608.95	599.59
Diseases of the nervous system:												
Single	672.11	611.65	183.45	177.10	144.43	211.25	639.36	515.60	208.13	222.77	152.57	261.63
Married	167.59	295.48	373.30	391.46	459.11	313.06	177.12	275.75	396.92	407.08	425.96	317.17
Widowed	33.08	32.95	214.10	232.22	752.82	734.83	36.27	33.48	230.59	258.26	724.14	708.25
Diseases of the circulatory system:												
Single	625.72	625.93	216.95	173.48	157.33	200.59	654.08	580.12	218.97	200.60	126.95	219.28
Married	159.23	336.88	403.56	412.76	437.21	250.36	187.72	331.67	416.86	421.54	395.42	246.78
Widowed	41.91	44.89	220.86	269.36	737.23	685.74	51.22	56.56	250.51	284.46	698.28	664.98
Diseases of the digestive system:												
Single	764.56	766.48	153.97	138.07	81.47	95.45	754.93	738.10	174.94	154.24	70.13	107.66
Married	269.14	462.78	428.46	365.08	302.40	172.14	288.29	485.19	461.99	370.06	249.72	144.75
Widowed	68.43	77.73	317.88	327.19	613.69	595.08	74.38	88.31	371.90	355.66	553.72	556.63
Diseases of the urinary system:												
Single	604.52	656.73	218.27	213.19	177.20	130.08	616.15	630.67	242.21	239.26	141.64	130.06
Married	173.08	472.16	381.68	369.77	445.24	158.07	211.45	481.45	408.15	378.20	380.40	140.34
Widowed	57.52	88.16	240.45	373.87	702.03	537.97	77.24	94.33	306.49	465.67	616.27	500.00
Diseases of the female organs of generation:												
Single	.....	830.66	.....	144.16	.....	25.17	.....	759.04	.....	192.77	.....	48.19
Married	.....	625.82	.....	315.10	.....	59.08	.....	668.25	.....	277.78	.....	53.97
Widowed	.....	203.88	.....	488.67	.....	307.44	.....	227.50	.....	510.34	.....	262.07
Suicides:												
Single	807.97	914.98	150.97	68.83	41.06	16.19	812.20	891.47	165.85	100.78	21.95	7.75
Married	396.97	635.68	472.02	321.61	131.01	42.71	394.51	650.72	478.15	306.22	127.34	43.06
Widowed	141.76	224.49	452.11	459.18	406.13	316.33	161.49	225.81	459.63	387.10	378.88	387.10
All other causes:												
Single	843.37	789.41	87.74	87.44	68.89	123.15	919.59	705.09	112.64	117.71	67.77	177.20
Married	349.17	572.43	340.00	249.09	310.83	178.48	347.65	516.31	353.87	273.22	298.40	210.47
Widowed	63.20	54.19	194.42	199.61	742.30	746.20	69.41	50.68	218.85	209.13	711.74	740.19

The following table shows for the United States, the registration states, the rural districts of the registration states, and for the 54 ward cities the proportion of deaths from each of certain causes or groups of causes per 1,000 deaths from all causes during the census year, with distinction of conjugal condition, sex, color, general nativity, and parental nativity:

COLOR, NATIVITY, CONJUGAL CONDITION, AND CAUSES OF DEATH.	UNITED STATES.		REGISTRATION STATES.				54 WARD CITIES. (a)	
			Total.		Rural.			
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
All classes:								
Alcoholism—								
Single	2.71	0.31	4.06	0.60	2.55	0.14	3.89	0.65
Married	7.06	1.76	8.32	3.74	4.75	0.71	10.19	5.20
Widowed	6.87	1.39	7.65	2.04	3.52	0.69	11.53	3.12
Consumption—								
Single	77.03	88.00	97.17	95.55	98.77	111.33	85.92	74.65
Married	152.51	214.93	163.80	210.25	123.92	189.36	184.91	216.95
Widowed	96.41	91.40	104.21	80.39	65.34	68.52	131.45	91.68
Cancer and tumor—								
Single	4.10	6.83	3.78	9.39	5.92	14.29	3.54	6.34
Married	37.45	60.03	38.72	72.84	44.61	78.99	39.23	65.55
Widowed	33.52	59.94	31.49	61.60	28.95	57.55	33.11	67.51
Suicide—								
Single	3.28	1.21	3.21	1.17	4.09	1.55	3.16	0.96
Married	11.27	3.41	11.15	3.58	10.96	3.72	14.84	4.53
Widowed	8.94	1.73	8.44	1.69	8.68	1.71	11.53	1.95
General diseases—A—								
Single	239.15	324.55	260.98	294.82	266.82	288.71	247.62	299.59
Married	105.61	112.48	63.26	75.88	73.65	78.81	78.15	86.49
Widowed	74.89	83.04	58.98	66.50	60.17	63.95	62.78	72.34
Diseases of the nervous system—								
Single	100.55	101.02	105.48	111.59	111.74	123.51	116.33	116.97
Married	109.26	82.54	131.20	104.45	147.03	126.33	110.52	84.07
Widowed	133.23	135.73	147.70	152.41	163.56	169.69	127.41	132.19
Diseases of the circulatory system—								
Single	25.08	24.71	32.58	34.84	41.57	42.53	28.37	28.87
Married	99.15	82.74	116.53	103.30	132.71	113.39	102.62	91.73
Widowed	111.04	107.55	128.65	119.50	139.58	122.76	115.27	112.97
Diseases of the respiratory system—								
Single	159.71	155.50	163.97	162.38	147.50	145.20	163.37	162.47
Married	171.59	140.01	178.59	150.03	153.52	140.16	179.78	147.82
Widowed	163.86	181.66	169.45	195.60	157.98	177.00	177.08	190.73
Diseases of the digestive system—								
Single	38.68	37.72	31.40	34.80	38.25	40.07	33.20	32.38
Married	56.49	55.44	55.38	64.40	52.64	63.03	61.21	67.76
Widowed	46.40	48.89	42.28	49.57	38.05	44.42	51.13	55.95
Diseases of the urinary system—								
Single	11.84	8.59	17.63	14.90	16.70	13.59	16.01	12.19
Married	63.89	33.24	80.56	59.42	77.63	39.89	76.45	62.17
Widowed	72.51	38.96	82.20	48.05	65.96	25.24	87.55	56.95
Diseases of the female organs of generation—								
Single	.....	2.29	.....	1.94	.....	2.39	.....	1.65
Married	.....	15.61	.....	11.47	.....	9.04	.....	15.18
Widowed	.....	5.49	.....	3.73	.....	3.65	.....	5.31
Accidents and injuries—								
Single	61.93	25.90	48.26	18.11	67.21	24.01	41.76	16.90
Married	76.00	19.20	62.47	19.34	60.67	16.67	67.90	23.20
Widowed	39.78	21.53	34.62	21.40	31.43	24.44	42.31	20.28
All other causes—								
Single	179.20	175.10	222.59	214.09	177.94	171.19	251.82	250.39
Married	84.36	151.30	75.41	112.35	102.21	126.42	67.76	123.05
Widowed	184.91	199.09	173.54	187.61	219.81	225.31	141.75	183.13
Unknown—								
Single	46.74	48.26	8.87	8.83	20.96	21.48	5.02	4.98
Married	25.36	27.31	9.62	8.95	15.71	13.48	6.35	6.29
Widowed	27.03	28.59	10.79	9.90	16.96	15.07	6.50	5.90
White:								
Alcoholism—								
Single	2.97	0.32	4.18	0.60	2.50	0.07	4.09	0.68
Married	7.44	1.91	8.40	3.78	4.68	0.72	10.64	5.35
Widowed	7.04	1.46	7.64	2.05	3.56	0.69	11.86	3.13
Consumption—								
Single	72.14	87.50	94.80	93.52	96.16	109.56	80.77	69.69
Married	147.02	207.04	161.07	208.19	122.70	187.07	180.30	210.57
Widowed	93.04	87.78	101.84	79.38	64.70	68.30	127.72	87.95
Cancer and tumor—								
Single	4.46	7.37	3.89	9.68	5.98	14.65	3.74	6.62
Married	40.54	63.70	39.20	73.86	44.63	79.62	41.00	67.79
Widowed	35.37	62.28	31.96	61.87	29.31	57.77	33.89	68.88
Suicides—								
Single	3.67	1.37	3.28	1.15	4.15	1.45	3.34	1.02
Married	12.35	3.75	11.38	3.68	11.12	3.78	15.62	4.82
Widowed	9.65	1.85	8.61	1.74	8.79	1.74	12.12	1.98
General diseases—A—								
Single	296.17	335.42	263.75	297.69	269.45	290.60	253.94	298.70
Married	101.51	110.98	68.19	75.50	73.82	78.90	76.91	85.35
Widowed	71.78	80.18	58.78	66.55	60.09	64.14	60.99	71.31
Diseases of the nervous system—								
Single	104.35	105.82	106.19	112.20	113.19	124.13	117.60	117.44
Married	114.51	86.42	131.84	104.85	147.49	126.86	111.80	84.41
Widowed	137.15	140.53	148.27	152.98	163.53	170.41	129.55	133.75
Diseases of the circulatory system—								
Single	26.60	26.54	32.95	35.29	42.10	42.92	28.40	29.62
Married	102.04	83.99	116.55	103.61	132.62	113.66	101.46	91.11
Widowed	112.68	107.63	129.01	118.74	140.08	122.48	112.86	110.72
Diseases of the respiratory system—								
Single	159.69	156.56	163.39	161.63	146.07	144.43	163.42	161.59
Married	171.58	143.19	178.68	150.22	153.80	140.68	181.02	150.31
Widowed	165.11	187.11	169.94	196.75	158.50	177.36	179.85	196.44

a For list of these cities see Appendix, page 496.

PROPORTION OF DEATHS FROM CERTAIN CAUSES, BY CONJUGAL CONDITION—Continued.

COLOR, NATIVITY, CONJUGAL CONDITION, AND CAUSES OF DEATH.	UNITED STATES.		REGISTRATION STATES.				54 WARD CITIES. (a)	
			Total.		Rural.			
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
White—Continued.								
Diseases of the digestive system—								
Single	37.94	37.31	31.39	31.87	38.20	40.24	32.71	31.70
Married	58.01	58.25	55.69	64.96	52.42	63.41	62.05	68.81
Widowed	47.20	50.72	42.53	50.06	37.90	44.45	51.61	57.78
Diseases of the urinary system—								
Single	12.59	9.32	17.81	15.19	16.72	13.70	16.00	12.47
Married	66.16	35.46	80.55	59.22	77.71	39.90	76.46	63.19
Widowed	74.43	34.97	82.22	47.92	65.95	25.24	87.97	58.17
Diseases of the female organs of generation—								
Single	.....	2.08	.....	1.90	.....	2.39	.....	1.53
Married	.....	14.67	.....	11.33	.....	9.10	.....	15.04
Widowed	.....	4.80	.....	3.66	.....	3.59	.....	4.97
Accidents and injuries—								
Single	59.92	22.87	48.39	18.08	67.30	24.29	41.77	16.29
Married	74.84	19.23	62.94	19.24	61.14	16.57	68.86	23.59
Widowed	39.21	21.62	34.72	21.44	31.20	24.54	43.06	20.35
All other causes—								
Single	182.21	177.02	221.13	212.51	177.38	170.82	250.56	248.90
Married	82.60	148.56	75.86	113.25	102.22	120.99	67.84	123.90
Widowed	182.98	195.18	173.84	187.07	220.06	224.70	141.67	179.22
Unknown—								
Single	37.23	37.52	8.83	8.70	20.81	20.74	3.66	3.75
Married	22.00	22.85	9.66	8.93	15.60	13.24	6.03	5.77
Widowed	24.36	23.88	10.65	9.81	16.33	14.59	6.26	5.36
Native born white:								
Alcoholism—								
Single	1.93	0.10	2.92	0.31	2.03	.....	2.54	0.37
Married	0.27	1.17	7.08	3.14	4.32	0.48	10.98	4.83
Widowed	5.49	0.56	5.73	0.73	2.03	0.30	11.35	1.04
Consumption—								
Single	61.42	73.86	77.54	80.45	87.42	103.78	61.57	57.63
Married	147.56	224.23	152.50	220.04	118.51	191.70	197.30	250.89
Widowed	86.40	94.05	82.79	76.17	57.78	66.93	133.07	100.41
Cancer and tumor—								
Single	3.44	6.11	2.88	7.56	4.95	13.04	2.34	4.57
Married	36.73	60.33	37.60	77.69	44.08	80.35	30.28	63.68
Widowed	33.62	64.16	28.66	66.16	29.04	59.53	27.79	70.97
Suicides—								
Single	2.44	1.12	2.21	0.83	3.25	1.34	1.82	0.74
Married	9.95	3.30	10.82	3.66	11.72	4.05	12.32	4.06
Widowed	7.57	1.91	7.59	2.36	8.13	2.27	10.18	2.11
General diseases—A—								
Single	305.32	330.76	276.13	307.39	281.02	296.57	263.75	305.72
Married	113.82	120.22	72.30	77.29	73.66	78.56	83.24	87.21
Widowed	77.26	84.97	55.81	60.95	58.07	60.43	61.84	69.05
Diseases of the nervous system—								
Single	106.99	107.03	109.91	114.70	116.28	125.70	123.42	120.39
Married	122.05	86.70	151.48	115.56	157.78	134.72	126.85	84.34
Widowed	146.51	152.77	164.90	176.10	167.83	184.32	145.60	159.95
Diseases of the circulatory system—								
Single	23.98	24.38	29.53	31.21	39.30	40.54	24.48	25.61
Married	104.17	78.06	127.41	99.51	136.46	110.04	109.28	81.96
Widowed	121.03	105.97	149.72	117.59	152.44	115.43	129.94	114.85
Diseases of the respiratory system—								
Single	160.26	156.91	162.67	161.83	144.81	145.02	103.10	161.42
Married	163.91	134.35	159.10	132.13	147.70	135.79	159.96	125.40
Widowed	154.77	178.02	149.72	184.08	151.86	180.54	153.03	163.11
Diseases of the digestive system—								
Single	37.83	36.85	30.94	30.28	38.35	39.67	32.01	36.23
Married	54.56	54.49	51.48	61.52	52.34	60.80	52.72	66.22
Widowed	44.21	48.89	38.10	47.77	36.59	44.12	43.84	55.84
Diseases of the urinary system—								
Single	10.48	8.02	14.29	12.43	15.04	13.12	11.99	9.68
Married	67.25	31.01	83.16	53.75	82.01	40.89	81.67	60.37
Widowed	76.37	27.67	81.94	34.34	66.78	24.17	94.72	45.80
Diseases of the female organs of generation—								
Single	.....	1.96	.....	1.55	.....	2.51	.....	1.15
Married	.....	16.36	.....	11.88	.....	9.54	.....	19.08
Widowed	.....	5.16	.....	3.99	.....	3.63	.....	6.69
Accidents and injuries—								
Single	52.25	21.86	39.30	16.74	57.33	22.86	33.32	14.55
Married	68.10	17.09	52.89	16.91	52.15	14.90	64.88	23.62
Widowed	34.56	21.09	29.34	20.75	27.00	23.42	38.75	20.96
All other causes—								
Single	195.30	184.07	242.96	226.38	189.81	176.21	276.40	264.51
Married	81.25	140.20	82.73	117.73	104.20	125.77	63.94	122.10
Widowed	186.36	188.10	194.23	198.00	228.22	220.43	142.47	176.85
Unknown—								
Single	38.37	37.88	8.70	8.24	20.40	19.64	3.18	3.42
Married	24.38	23.59	11.45	9.20	15.08	12.40	6.59	5.93
Widowed	25.86	26.67	11.47	10.90	14.23	14.50	7.44	5.46
Both parents native born (white):								
Alcoholism—								
Single	1.36	0.05	1.70	0.10	1.38	.....	1.87	0.17
Married	5.00	0.40	5.25	1.23	3.78	0.74	7.41	2.63
Widowed	5.21	0.25	4.70	0.38	2.83	0.47	14.30	0.42
Consumption—								
Single	55.03	75.85	62.02	73.00	78.14	97.59	49.14	51.71
Married	135.64	216.68	122.51	183.88	110.77	183.32	140.30	189.43
Widowed	80.47	91.64	68.62	66.02	56.19	66.85	99.08	73.90
Cancer and tumor—								
Single	3.75	7.61	3.49	11.43	5.14	13.76	2.02	8.36
Married	38.91	64.88	42.61	92.50	45.71	83.97	36.80	91.02
Widowed	35.50	63.92	31.54	67.53	32.11	58.41	30.64	84.76

a For list of these cities see Appendix, page 496.

PROPORTION OF DEATHS FROM CERTAIN CAUSES, BY CONJUGAL CONDITION—Continued.

COLOR, NATIVITY, CONJUGAL CONDITION, AND CAUSES OF DEATH.	UNITED STATES.		REGISTRATION STATES.				54 WARD CITIES. (a)	
			Total.		Rural.			
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Both parents native born (white)—Continued.								
Suicides—								
Single	2.75	1.18	2.97	1.00	3.26	1.53	3.10	0.69
Married	9.12	2.52	11.06	2.56	11.21	2.59	12.52	3.61
Widowed	6.45	1.73	6.64	2.15	7.08	1.88	4.09	1.25
General diseases—A—								
Single	323.47	348.08	276.76	293.60	277.94	282.22	270.93	306.64
Married	191.83	125.21	74.41	78.45	77.44	72.29	79.22	86.01
Widowed	78.39	85.77	59.77	59.96	61.58	60.52	68.44	63.88
Diseases of the nervous system—								
Single	98.13	100.14	120.02	124.84	121.03	133.88	119.61	115.32
Married	121.47	87.79	162.13	126.86	161.43	137.72	144.13	95.21
Widowed	146.99	153.15	166.30	180.26	166.67	187.43	150.15	153.28
Diseases of the circulatory system—								
Single	23.09	24.74	33.67	39.62	40.80	47.27	25.87	31.72
Married	105.40	79.50	137.68	103.81	137.99	112.88	125.73	95.86
Widowed	122.11	105.55	150.53	120.05	145.80	116.35	139.94	109.39
Diseases of the respiratory system—								
Single	162.20	156.36	154.74	152.14	149.00	147.78	161.62	153.06
Married	166.88	136.58	160.68	136.40	154.29	144.76	176.34	130.99
Widowed	158.96	185.46	160.76	190.99	167.14	184.85	170.58	203.76
Diseases of the digestive system—								
Single	40.09	39.76	33.15	34.63	39.13	42.26	32.64	32.23
Married	55.85	53.96	52.94	66.25	52.55	66.17	56.48	71.24
Widowed	44.76	49.47	40.40	48.47	39.66	44.33	37.79	55.95
Diseases of the urinary system—								
Single	9.97	7.67	15.98	13.57	17.43	15.01	13.47	10.69
Married	67.28	26.74	87.72	51.07	85.01	41.33	99.92	64.67
Widowed	78.70	26.19	83.84	33.45	72.24	26.27	94.99	44.26
Diseases of the female organs of generation—								
Single	.....	2.48	.....	2.30	.....	3.48	.....	1.72
Married	.....	17.05	.....	13.95	.....	11.31	.....	24.95
Widowed	.....	4.98	.....	3.66	.....	3.52	.....	5.43
Accidents and injuries—								
Single	56.03	24.84	39.79	18.51	55.19	24.61	30.05	15.60
Married	65.40	15.39	47.78	16.00	48.03	13.72	49.83	23.31
Widowed	32.27	21.46	26.29	21.33	24.55	24.16	27.58	19.62
All other causes—								
Single	171.56	158.75	247.02	226.93	194.03	174.48	286.35	268.98
Married	81.56	146.73	83.37	111.78	97.82	116.77	65.17	113.92
Widowed	182.39	182.80	187.88	195.91	209.63	212.20	157.30	178.71
Unknown—								
Single	52.48	52.49	8.69	8.33	17.43	16.13	3.31	3.10
Married	25.65	26.57	11.86	10.26	13.97	12.42	6.13	6.24
Widowed	27.80	27.62	12.73	9.85	14.64	12.67	5.11	5.43
One or both parents foreign born (white):								
Alcoholism—								
Single	2.21	0.29	3.14	0.43	2.82	.....	2.92	0.40
Married	11.37	3.95	16.81	7.62	12.01	.....	18.07	8.68
Widowed	9.10	1.86	14.76	3.89	.....	.....	22.28	5.87
Consumption—								
Single	72.85	78.47	85.42	82.57	104.50	113.90	71.64	63.67
Married	237.51	292.20	305.81	334.52	244.74	301.18	310.81	337.72
Widowed	162.94	134.97	243.54	176.24	134.75	114.41	295.26	203.81
Cancer and tumor—								
Single	2.67	3.37	1.79	3.02	3.53	4.04	1.69	2.62
Married	28.49	43.22	19.76	43.84	28.53	54.12	14.54	39.85
Widowed	27.30	64.94	16.61	69.13	14.18	63.56	16.71	64.52
Suicides—								
Single	1.84	0.71	1.35	0.58	2.59	1.44	1.49	0.27
Married	11.12	3.73	9.14	3.34	12.01	4.71	8.64	2.89
Widowed	5.79	2.78	7.38	1.95	7.09	4.24	8.36	1.47
General diseases—A—								
Single	300.97	351.05	279.31	322.61	283.36	328.43	280.34	332.67
Married	97.10	98.61	72.84	68.14	88.59	97.65	73.48	66.20
Widowed	47.97	72.82	31.37	65.24	35.46	72.03	30.64	63.05
Diseases of the nervous system—								
Single	104.38	102.69	101.41	105.69	111.79	111.59	108.21	107.56
Married	88.80	62.52	87.58	70.76	117.12	97.65	76.62	56.23
Widowed	108.35	130.80	103.32	137.29	127.66	194.92	97.49	117.30
Diseases of the circulatory system—								
Single	22.04	21.81	24.46	24.01	33.18	30.57	21.56	21.42
Married	85.35	65.92	80.51	68.38	93.09	72.94	76.62	65.87
Widowed	110.84	94.16	136.53	86.66	184.40	76.27	103.06	93.84
Diseases of the respiratory system—								
Single	168.82	168.76	175.39	175.28	152.98	147.06	180.79	180.32
Married	171.97	129.10	136.38	128.90	151.65	103.53	194.11	136.25
Widowed	157.15	179.04	147.60	175.27	177.30	182.20	125.35	171.55
Diseases of the digestive system—								
Single	36.80	33.34	29.13	26.76	37.42	38.06	30.83	27.80
Married	49.83	47.71	47.77	51.70	54.05	44.71	46.76	58.16
Widowed	47.15	48.24	44.28	53.55	21.28	55.08	50.14	54.25
Diseases of the urinary system—								
Single	10.45	8.16	12.32	10.84	8.71	8.67	12.33	10.06
Married	64.90	45.63	75.79	68.02	57.06	34.12	81.34	75.84
Widowed	106.70	39.42	123.62	64.26	92.20	21.19	133.70	74.78
Diseases of the female organs of generation—								
Single	.....	1.23	.....	0.81	.....	0.58	.....	0.84
Married	.....	13.27	.....	9.53	.....	8.24	.....	12.85
Widowed	.....	6.96	.....	6.82	.....	.....	.....	10.26
Accidents and injuries—								
Single	48.11	18.56	33.74	14.06	52.95	19.61	28.70	12.50
Married	77.42	17.33	53.97	13.34	69.07	9.41	56.97	16.39
Widowed	46.32	18.55	42.44	17.53	42.55	16.95	52.92	20.53

a For list of these cities see Appendix, page 496.

PROPORTION OF DEATHS FROM CERTAIN CAUSES, BY CONJUGAL CONDITION—Continued.

COLOR, NATIVITY, CONJUGAL CONDITION, AND CAUSES OF DEATH.	UNITED STATES.		REGISTRATION STATES.				54 WARD CITIES. (a)	
			Total.		Rural.			
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
One or both parents foreign born (white)—Continued.								
All other causes—								
Single	201.32	186.30	245.41	227.02	185.69	178.49	257.81	237.61
Married	59.92	163.76	38.34	125.33	67.57	160.00	37.33	120.50
Widowed	154.67	178.57	86.72	134.37	163.12	186.44	64.07	117.30
Unknown—								
Single	27.55	25.26	7.12	6.31	20.48	18.17	1.98	2.17
Married	16.23	13.05	5.31	5.90	4.50	11.76	4.72	2.57
Widowed	15.72	26.90	1.85	7.79	.....	12.71	.....	1.47
Foreign born (white):								
Alcoholism—								
Single	13.66	2.04	14.48	3.07	7.83	1.25	16.01	3.43
Married	9.15	3.52	9.79	4.57	5.13	1.65	10.13	5.48
Widowed	9.02	2.83	9.63	3.61	7.69	2.32	11.36	3.75
Consumption—								
Single	194.33	195.50	244.41	227.51	196.55	193.99	241.33	206.14
Married	148.10	168.83	173.50	193.14	140.70	175.42	170.67	178.62
Widowed	104.47	76.95	125.54	84.76	83.69	75.54	125.55	80.71
Cancer and tumor—								
Single	16.08	28.31	12.51	30.87	18.01	37.55	16.04	30.08
Married	47.60	72.52	40.46	68.87	43.78	79.85	47.89	71.59
Widowed	38.66	58.21	36.54	55.34	32.45	44.74	37.07	62.16
Suicides—								
Single	14.95	5.01	9.98	3.68	8.61	1.25	14.31	4.44
Married	16.40	4.59	11.91	3.53	9.36	2.48	17.66	5.27
Widowed	12.44	1.83	9.43	0.93	10.25	.....	12.95	1.83
General diseases—A—								
Single	190.23	247.83	159.66	196.44	158.18	211.51	171.60	214.21
Married	79.10	87.06	63.40	73.36	74.58	82.33	72.84	83.80
Widowed	62.02	71.79	61.69	73.92	61.05	79.02	60.78	72.70
Diseases of the nervous system—								
Single	76.06	87.17	77.44	88.51	85.36	100.13	72.28	87.83
Married	100.78	86.39	107.39	89.23	114.43	95.99	102.03	83.87
Widowed	122.99	110.97	128.09	123.17	149.44	119.12	122.16	120.36
Diseases of the circulatory system—								
Single	56.38	64.69	60.72	78.20	69.69	76.35	59.91	75.91
Married	99.07	98.45	104.03	106.87	122.89	124.12	96.74	99.06
Widowed	101.43	110.49	105.50	119.66	107.60	148.17	104.62	108.70
Diseases of the respiratory system—								
Single	158.08	152.38	173.30	162.51	157.40	138.92	169.17	164.34
Married	187.56	165.89	205.05	175.98	178.14	155.98	195.67	171.89
Widowed	182.92	206.29	196.67	215.57	183.60	173.74	194.30	216.08
Diseases of the digestive system—								
Single	38.11	46.70	35.42	49.67	38.37	50.06	38.08	49.67
Married	64.63	67.30	60.74	69.91	53.44	72.82	67.75	70.55
Widowed	52.05	54.83	48.33	54.41	41.84	51.13	55.60	58.71
Diseases of the urinary system—								
Single	35.42	31.78	46.38	43.34	32.80	23.78	47.66	43.81
Married	65.17	46.56	77.73	67.02	63.71	36.82	73.19	65.76
Widowed	72.66	48.34	83.30	65.77	65.76	28.47	85.29	65.71
Diseases of the female organs of generation—								
Single	.....	4.29	.....	5.31	.....	.....	.....	5.65
Married	.....	10.62	.....	10.74	.....	8.27	.....	10.89
Widowed	.....	3.99	.....	3.30	.....	4.07	.....	3.85
Accidents and injuries—								
Single	130.42	34.75	107.80	28.62	143.30	46.31	102.47	33.11
Married	83.42	23.68	71.95	22.29	82.13	22.34	69.85	22.82
Widowed	45.21	21.84	40.08	21.78	42.70	27.89	45.24	19.77
All other causes—								
Single	56.95	79.10	49.33	72.77	61.08	93.87	47.42	77.73
Married	82.62	146.22	66.88	106.87	95.11	129.91	70.05	125.00
Widowed	176.37	205.84	146.17	169.52	188.73	231.26	139.90	180.29
Unknown—								
Single	19.34	20.44	8.57	9.40	22.71	25.03	4.73	3.63
Married	16.30	18.96	7.19	7.62	16.61	12.00	5.54	5.41
Widowed	19.75	16.80	9.63	8.26	22.20	14.53	5.18	5.37
Colored:								
Alcoholism—								
Single	1.13	0.28	1.06	0.42	4.01	2.44	1.81	0.34
Married	3.76	0.65	5.07	2.43	9.62	.....	3.53	3.13
Widowed	4.83	0.73	8.58	1.66	.....	.....	6.22	3.12
Consumption—								
Single	107.10	120.87	154.96	143.64	184.37	171.15	141.91	126.76
Married	199.40	274.38	269.50	286.41	206.73	333.33	252.43	305.48
Widowed	136.64	125.14	218.88	117.94	116.67	84.03	190.87	137.29
Cancer and tumor—								
Single	1.86	3.80	1.06	2.52	4.01	2.44	1.39	3.39
Married	11.08	32.44	20.26	35.10	43.27	39.55	13.24	34.46
Widowed	11.42	38.14	8.58	51.50	.....	42.02	20.75	50.70
Suicides—								
Single	0.89	0.34	1.41	1.68	2.00	4.89	1.11	0.34
Married	2.02	0.87	2.03	.....	.....	.....	3.53	0.52
Widowed	0.44	0.54	.....	.....	.....	.....	2.07	1.56
General diseases—A—								
Single	245.97	263.01	193.43	226.80	180.36	224.04	178.84	205.33
Married	140.67	123.75	70.92	89.81	62.50	73.45	96.29	102.35
Widowed	112.04	109.70	68.67	64.78	66.67	50.42	91.29	85.62
Diseases of the nervous system—								
Single	77.15	74.27	88.25	97.02	64.13	102.69	102.47	112.00
Married	64.38	58.24	106.38	89.81	115.38	124.29	91.79	79.37
Widowed	86.56	90.99	120.17	131.23	166.67	117.65	93.36	113.10

a For list of these cities see Appendix, page 496.

PROPORTION OF DEATHS FROM CERTAIN CAUSES, BY CONJUGAL CONDITION—Continued.

COLOR, NATIVITY, CONJUGAL CONDITION, AND CAUSES OF DEATH.	UNITED STATES.		REGISTRATION STATES.				54 WARD CITIES. (a)	
			Total.		Rural.			
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Colored—Continued.								
Diseases of the circulatory system—								
Single	15.35	14.51	23.65	24.36	24.05	29.34	28.05	21.04
Married	74.41	73.33	115.50	114.08	139.42	96.05	119.59	100.26
Widowed	99.30	106.79	111.59	147.84	100.00	142.86	153.53	140.41
Diseases of the respiratory system—								
Single	159.85	149.62	177.90	180.18	194.39	171.15	162.87	171.73
Married	171.74	116.10	175.28	143.20	134.62	107.34	161.52	113.32
Widowed	148.95	130.95	145.92	152.82	116.67	151.26	143.15	120.90
Diseases of the digestive system—								
Single	43.25	39.99	31.77	30.24	40.08	34.23	38.60	39.54
Married	43.54	34.24	43.57	43.69	67.31	39.55	48.93	53.26
Widowed	36.91	31.78	30.04	31.56	50.00	42.02	43.57	33.54
Diseases of the urinary system—								
Single	7.22	4.54	13.06	7.98	16.03	9.78	16.11	9.33
Married	44.52	16.54	81.05	66.75	72.12	39.55	76.35	48.04
Widowed	49.65	18.34	81.55	53.16	66.67	25.21	80.91	42.12
Diseases of the female organs of generation—								
Single	.....	3.50	.....	2.94	.....	2.44	.....	2.88
Married	.....	22.68	.....	16.99	.....	5.65	.....	17.23
Widowed	.....	11.99	.....	6.64	.....	8.40	.....	9.36
Accidents and injuries—								
Single	74.30	42.78	45.53	18.90	64.13	14.67	41.66	23.25
Married	85.91	18.93	44.58	23.06	28.85	22.60	55.16	17.75
Widowed	46.57	20.70	30.04	19.93	50.00	16.81	20.75	19.50
All other causes—								
Single	160.66	164.40	258.03	251.57	196.39	183.37	265.48	266.08
Married	104.51	171.94	57.75	78.88	100.96	90.40	66.64	111.23
Widowed	207.82	241.74	158.80	207.64	200.00	268.91	143.15	230.89
Unknown—								
Single	105.27	108.19	9.88	11.76	26.05	46.45	19.72	17.99
Married	54.07	60.90	8.11	9.71	19.23	28.25	11.03	13.58
Widowed	58.88	72.47	17.17	13.29	66.67	50.42	10.37	12.48

a For list of these cities see Appendix, page 496.

The following table shows for the United States and for the registration area the proportion of deaths from each of certain causes or groups of causes, in each of four age groups, per 1,000 of the total deaths from all causes in the corresponding age groups, with distinction of conjugal condition and of sex:

CAUSE OF DEATH, AND CONJUGAL CONDITION.	UNITED STATES.								REGISTRATION AREA.							
	15 years and over.		15 to 45 years.		45 to 65 years.		65 years and over.		15 years and over.		15 to 45 years.		45 to 65 years.		65 years and over.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Consumption	172.32	204.13	265.56	323.50	149.33	147.73	55.25	54.26	196.09	194.22	314.01	348.19	156.97	128.06	50.23	43.36
Single	249.28	320.22	275.15	373.80	171.92	154.96	70.89	60.50	302.07	327.63	338.87	408.76	190.27	142.13	75.87	57.29
Married	152.64	215.26	256.86	293.45	145.17	153.89	58.37	68.89	167.07	209.90	291.12	312.58	150.18	132.49	51.74	51.64
Widowed	96.49	91.47	347.79	346.79	166.59	132.88	44.29	47.18	105.42	83.19	366.91	349.96	171.69	115.37	41.50	38.46
Cancer and tumor	29.23	53.04	11.68	26.75	45.68	104.04	39.83	52.78	30.08	60.56	12.26	33.07	48.34	112.42	38.85	53.91
Single	11.81	26.36	7.01	13.31	350.62	102.21	31.57	54.18	12.41	34.97	7.48	17.38	33.09	113.05	31.57	55.84
Married	37.50	60.14	17.39	32.76	48.62	108.45	44.62	63.44	39.43	70.00	18.31	41.05	53.21	119.46	44.81	64.70
Widowed	33.55	59.91	16.81	50.45	40.96	94.58	32.90	47.92	32.68	63.77	15.11	54.37	42.44	100.68	31.00	49.81
Diseases of the nervous system.	100.36	95.18	58.11	51.05	113.02	115.65	151.28	150.92	110.78	110.70	63.12	57.37	125.69	132.39	170.69	163.98
Single	71.70	76.52	58.82	58.60	121.56	135.04	144.02	160.17	75.94	87.04	60.40	60.85	122.14	147.95	173.42	173.31
Married	109.39	82.69	58.15	45.23	111.81	109.76	157.19	157.02	123.37	98.12	67.38	53.21	127.85	126.23	179.53	177.66
Widowed	133.50	135.98	57.08	59.36	121.70	124.82	146.12	148.79	141.98	147.00	58.27	64.19	126.15	140.28	160.15	159.66
Diseases of the circulatory system.	86.66	84.21	44.72	50.27	108.26	113.87	123.72	115.05	100.34	100.22	58.86	63.90	120.23	127.71	145.06	125.83
Single	53.10	59.12	40.53	46.33	106.40	102.21	116.11	117.52	66.72	79.09	54.29	62.21	112.90	124.05	126.77	131.98
Married	99.24	82.84	50.13	51.66	109.66	115.93	135.80	125.79	112.13	98.38	64.91	64.18	122.04	131.07	151.48	138.61
Widowed	111.90	107.70	60.62	64.05	105.23	114.67	119.94	109.97	125.38	117.88	72.66	77.63	116.48	123.83	136.38	120.14
Diseases of the digestive system.	49.55	50.32	40.36	44.15	64.66	65.33	48.98	47.63	50.80	56.90	43.57	56.20	66.91	71.03	45.00	45.97
Single	35.93	38.65	33.56	37.09	51.17	53.18	40.74	36.56	39.95	46.02	37.53	46.06	54.01	54.16	41.94	37.71
Married	56.61	55.50	48.33	47.54	66.41	68.70	53.58	57.94	58.09	66.10	51.65	63.34	70.07	77.38	49.50	54.67
Widowed	46.52	48.99	41.15	50.45	62.96	63.36	41.51	43.41	46.16	51.51	38.85	59.28	63.66	67.65	39.81	43.89
Diseases of the urinary system.	54.87	31.16	28.90	26.20	66.38	44.07	82.67	28.27	64.57	46.91	40.52	43.96	79.45	64.45	86.90	30.15
Single	31.76	24.31	23.42	19.99	64.03	51.65	78.22	31.34	44.46	38.83	34.08	33.20	83.21	70.88	94.25	38.43
Married	64.01	33.33	35.14	29.13	66.89	41.79	89.20	31.95	74.25	53.40	48.42	50.56	79.13	63.83	96.50	42.78
Widowed	72.60	33.35	53.98	38.95	74.33	40.29	74.11	26.71	77.38	44.23	67.63	54.37	87.95	66.26	74.29	33.89
Diseases of the female organs of generation.	.....	11.82	.....	15.21	.....	14.78	.....	3.62	.....	9.27	.....	13.69	.....	10.23	.....	2.53
Single	.....	9.60	.....	9.98	.....	13.79	.....	2.30	.....	7.91	.....	8.14	.....	11.63	.....	2.90
Married	.....	15.63	.....	18.11	.....	16.70	.....	5.60	.....	12.86	.....	16.91	.....	11.29	.....	3.96
Widowed	.....	5.47	.....	14.78	.....	10.57	.....	2.51	.....	4.55	.....	13.49	.....	8.57	.....	1.83
Suicides	11.37	3.51	13.08	4.96	15.28	3.77	5.13	0.86	12.96	4.03	14.64	6.36	16.92	3.92	6.03	1.02
Single	12.14	5.42	11.96	6.21	16.92	3.72	6.93	0.87	12.91	6.15	13.04	7.43	16.55	4.73	4.24	0.36
Married	11.17	3.40	14.07	4.01	14.44	3.71	4.58	0.88	13.10	4.27	15.94	5.46	16.35	4.13	5.70	1.05
Widowed	8.93	1.74	16.37	5.16	17.20	3.15	5.28	0.82	10.24	1.94	18.71	5.72	17.45	2.78	6.04	1.15
All other causes	495.64	466.64	537.59	457.91	437.40	390.77	488.13	546.50	434.38	417.20	453.02	377.26	385.50	349.79	457.25	527.26
Single	534.19	439.81	549.56	434.68	432.92	383.23	511.51	536.67	445.55	372.37	454.31	355.98	387.83	334.42	451.93	502.18
Married	469.43	451.19	519.93	478.11	436.99	381.06	456.67	488.43	412.55	386.91	442.26	392.01	381.16	334.11	420.60	464.91
Widowed	496.51	515.40	466.19	370.01	411.02	406.68	535.86	572.69	460.77	485.84	361.87	320.93	373.97	375.10	510.84	551.15

The preceding table is to be read as follows: In each 1,000 deaths from all causes, in single males from 15 to 45 years of age in the United States during the census year, 275.15 were due to consumption. In the registration area the corresponding figure was 338.87. In married males of the same age group the corresponding proportion of deaths from consumption was less, being 256.86 in the United States and 291.12 in the registration area. In widowed males of the same age group the proportion of deaths from consumption was 347.79 in the United States and 366.91 in the registration area, being somewhat greater than the proportion for both the married and the single males in this age group.

Considering the males from 15 to 45 years of age, the proportion of deaths from diseases of the nervous system in the United States was about the same for the single (58.82), the married (58.15), and the widowed (57.08); but in the registration area the proportion of deaths from this group of causes was greater among the married (67.38)

than among the single (60.40) or among the widowed (58.27), the difference being probably due to the greater proportion of urban population in the registration area and to the greater tendency to diseases of the nervous system in the urban population as compared with that of the rural districts.

Diseases of the circulatory system in this class in the United States caused a greater proportion of deaths among the widowed (60.62) than among the married (50.13) or the single (40.53). In the registration area, the same difference is observable, the proportions being, for the widowed 72.66, for the married 64.91, and for the single 54.29.

Diseases of the digestive system in this class of population in the United States caused a greater proportion of deaths among the married (48.33) than among the widowed (41.15) or among the single (33.56); and the same relative proportions are seen in the registration area, the figures being, for the married 51.65, for the widowed 38.85, and for the single 37.53.

Diseases of the urinary system and male organs of generation in this class of population in the United States caused a greater proportion of deaths among the widowed (53.98) than among the married (35.14) or among the single (23.42). In the registration area the corresponding figures are, for the widowed 67.63, for the married 48.42, and for the single 34.08.

Suicides in this class of population in the United States caused a greater proportion of deaths among the widowed (16.37) than among the married (14.07) or the single (11.96). In the registration area the corresponding figures are, widowed 18.71, married 15.94, single 13.04.

Taking the males 65 years of age and over, the proportion of deaths from consumption was greater among the single (70.89) than among the married (58.37) or among the widowed (44.29) in the United States. In the registration area the same relative proportions are observed, the figures being, for the single 75.87, for the married 51.74, and for the widowed 41.50.

Cancer and tumor in the United States in this class caused a greater proportion of deaths among the married (44.62) than among the single (31.57) or the widowed (32.90). The same difference exists in the registration area, the figures being, for the married 44.81, for the single 31.57, and for the widowed 31.00.

Diseases of the nervous system in the United States in this class caused a greater proportion of deaths among the married (157.19) than among the single (144.02) or the widowed (146.12).

Diseases of the circulatory system in this class in the United States caused a greater proportion of deaths among the married (135.80) than among the single (116.11) or the widowed (119.94). The same proportionate differences exist in the registration area, the figures being, for the married 151.48, for the single 126.77, and for the widowed 136.38.

Diseases of the digestive system in this class in the United States caused a greater proportion of deaths among the married (53.58) than among the single (40.74) or the widowed (41.51).

Diseases of the urinary system in the United States in this class caused a greater proportion of deaths among the married (89.20) than among the single (78.22) or the widowed (74.11).

Suicides caused a greater proportion of deaths in the United States in this class among the single (6.93) and the widowed (5.28) than among the married (4.58).

Taking the females from 15 to 45 years of age in the United States, the table indicates that the proportion of deaths from consumption was decidedly greater among the single (373.80) than among the married (293.45), the proportion for the widowed being intermediate (346.79).

Among females of this age group cancer and tumor caused a much greater proportion of deaths among the widowed (50.45) than among the married (32.76) or the single (13.31).

Diseases of the nervous system caused a greater proportion of deaths in this class among the widowed (59.36) than among the married (45.23) or among the single (58.60).

Diseases of the female organs of generation in this age group caused a greater proportion of deaths among the married (18.11) than among the widowed (14.78) or the single (9.98).

Among females 65 years of age and over the proportion of deaths from consumption in the United States was greater among the married (68.89) than among the single (60.50) or the widowed (47.18). In the registration area the proportion of deaths from this cause was greatest among the single, 57.29, that for the married being 51.64 and for the widowed 38.46.

In the United States, among females of this age group, cancer and tumor caused a greater proportion of deaths among the married (63.44) than among the single (54.18) or the widowed (47.92). In the registration area the corresponding figures are: married 64.70, single 55.84, widowed 49.81.

In the United States diseases of the female organs of generation caused a decidedly greater proportion of deaths in this age group among the married (5.60) than among the single (2.39) or the widowed (2.51). The difference in these proportions is somewhat less in the registration area, the figures being, for the married 3.96, the single 2.90, for the widowed 1.83.