

LIFE TABLES FOR THE UNITED STATES: 1900-2050

ACTUARIAL STUDY NO. 87

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Social Security Administration

Office of the Actuary

September 1982

SSA Pub. No. 11-11534

FOREWORD

Many people are interested in knowing how changes in mortality affect our society. Health care planners want to know how changes in mortality will affect longevity, so that they can develop and provide services effectively. Industrial and sales planners want to know how changes in mortality will affect the age-sex distribution of the population, so that they can make prudent decisions about production and marketing. Actuaries want to stay abreast of changes in mortality to be sure that insurance premiums are properly set and that pension plans are properly funded.

A fundamental element in gauging the effects of mortality is knowledge of what mortality levels have been, what they are now, and what they may be in the future. At the Social Security Administration, we have for many years collected, analyzed, and projected the mortality data needed to estimate the future cost of Social Security benefits. We hope that this study, which summarizes our quantitative knowledge of mortality in the United States, will be helpful to those with an interest in the subject.

The reader should be aware that the life tables contained in this study differ from the official tables published in conjunction with each decennial Census. However, the tables contained in this study are better suited to studying time trends because, unlike the official decennial tables, they have all been constructed using the same method. The reader should also be aware that the life tables contained in this study may show small discrepancies in the mathematical relationships that should hold among the various columns because more decimal places were used in the calculations than are displayed.

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A. Basic Concepts

An ideal representation of mortality would enable one to estimate fairly accurately the number of deaths of persons of either sex occurring at any age over any length of time. In the past, mathematical formulas (such as the Gompertz, Makeham, or logistic curves) were used which satisfied this criterion approximately over a broad range of ages. However as actual data have become more abundant and more reliable, the need and desirability of using approximate mathematical formulas have become less. Today, mortality is most commonly represented in the form of a "life table," which gives probabilities of death within one year at each exact integral age based on tabulations of deaths in a given population and estimates of the size of that population. Although a life table does not give mortality at non-integral ages or for non-integral durations (as can be obtained from a mathematical formula), acceptable methods for estimating such values are well known.

One interpretation of a life table is that it represents a theoretical birth cohort consisting of 100,000 persons who experience at each age of their lives the probabilities of death shown in the table. In addition to the probabilities of death, the life table shows the number of survivors of the theoretical birth cohort at each succeeding exact integral age. This entry is extremely useful for predicting numbers of survivors in various applications. This entry is also useful for determining the life endurancy at a specific survival rate, that is, the age at which a specific proportion of the theoretical birth cohort is still alive. Another entry in the life table shows the number of deaths that would occur between succeeding exact integral ages among members of the theoretical birth cohort. Still another entry gives the number of person-years that would be lived between succeeding exact integral ages by members of the cohort, and another gives the number of person-years that would be lived beyond each succeeding exact integral age. The final entry in the life table is the average number of years of life remaining for members of the cohort at each succeeding exact integral age, and is called life expectancy.

An alternate interpretation of a life table is that it represents the population which eventually would result if the probabilities of death shown in the table were experienced each year and 100,000 births occurred uniformly throughout each year. It can be proved mathematically that such a population would eventually have a stationary number of persons from year to year at each age last birthday. Those numbers of persons are given as an entry in the life table. Also given is the number of persons attaining each exact integral age during any year, and the number of persons dying between succeeding exact integral ages. Another entry is the number of persons alive at or beyond each age last birthday. Although the concept of the stationary population is somewhat artificial, it may be applied successfully in many situations in which the population of interest doesn't change much from year to year. Also, because this concept tabulates numbers of people by "age last birthday" rather than by "exact integral age", it is useful for predicting survivors in a real population tabulated by age last birthday, as most are.

One kind of life table, called a period (or current) life table, is based on the experience of all of those living in a short period of time during which mortality has remained relatively constant. As such, its survivorship-group interpretation does not represent the experience of any actual cohort of persons, but represents what would happen to a theoretical cohort if age by age its members experienced the mortality observed during the period being studied. Its stationary-population interpretation represents fairly well the actual mortality experience of the population existing during the period. Period life tables have been constructed throughout the world for many years as tools for demographic and actuarial analysis of various populations. This study presents life tables by sex for the United States based on data collected for each decennial year since 1900, and based on projections for each decennial year through 2050.

Another kind of life table, called a cohort (or generation) life table, is based on experience over the entire lifetime of a cohort of persons born in a relatively short period of time. As such, its survivorship-group interpretation represents fairly well the actual mortality experience of that birth cohort. Its stationary-population interpretation, though, does not represent the mortality experience of any actual existing population. Not many cohort life tables have been constructed because data over such a long period of time are needed. This study presents some selected cohort life table functions based on mortality experience in the United States during 1900-1981 and mortality projections consistent with methods used for annual Social Security valuations.

B. Data

1. Sources

Annual tabulations of numbers of deaths by age and sex are made by the National Center for Health Statistics based on information from all death records received by the Center from the Death Registration Area, and are published in the volumes of Vital Statistics of the United States. One requirement for admission to the Death Registration Area (which since 1933 has included all the States, the District of Columbia, and the independent registration area of New York City) was a demonstration of ninety percent completeness of registration. Although incomplete registration may be a problem in certain isolated regions [7], the incentive for filing a death certificate is so strong (obtaining burial permits, collecting insurance benefits, settling estates, etc.) that errors of underregistration of deaths are believed to be insignificant for the nation as a whole. Errors of misstatement of age on the death certificate [4], however, may very well cause distortion in numbers of deaths for specific age groups.

Annual estimates of the U.S. resident population by age and sex are made by the Bureau of the Census and are published in Current Population Reports Series P-25. These estimates are affected by both undercount and misclassification [1] in the decennial census. These errors, which may either offset or compound, are usually considered together as net undercount [9]. Postcensal estimates are made by the "inflation-deflation" method which inflates the last previous census-level population by net undercount, carries the inflated population forward consistent with the births and deaths tabulated in the Vital Statistics, adjusts the population by estimated net immigration, and then deflates by net undercount. Thus the postcensal population estimates are affected by errors in the Vital Statistics; and the effect tends to accumulate as the elapsed time from the last previous census increases. When results of the following census become available, the postcensal estimates are revised (and are then called intercensal estimates), thus removing much of the effects of Vital Statistics errors on the population estimates.

Death rates calculated by comparing numbers of deaths tabulated by the National Center for Health Statistics to the population estimated by the Bureau of the Census are affected by the errors from both sources, which may either offset or compound. Further errors of noncomparability of numerator and denominator may also be introduced. Although efforts are made to minimize errors of noncomparability (by excluding armed forces overseas from the population estimates, for example), complete comparability cannot be achieved. An error of noncomparability which has become more important in recent years is illegal immigration. The error arises in that deaths of illegal immigrants may appear in Vital Statistics tabulations even though those persons have not been taken into account in the postcensal population estimates [8].

The errors of noncomparability may be eliminated if the numbers of deaths and the population are drawn from the same source. This approach, however, generally involves so large a reduction in the size of the population being observed, that more random error is introduced than noncomparability error is eliminated. One source of data on aged persons which is not subject to errors of noncomparability and yet does permit a very large number of observations is the Social Security Medicare program, which includes roughly 99 percent of the aged persons represented in the Vital Statistics [10]. Errors of underregistration of deaths in the Medicare data are small, because the availability of a lump-sum death payment on most insured-workers' accounts encourages survivors and funeral directors to report deaths. Errors of misstatement of age are greatly reduced, because most of the data relate to individuals who have had to prove their date of birth to become entitled to benefits. An error analagous to net undercount does appear to be present in the data, although the error is believed to have a significant effect on calculated death rates only for the very aged (beginning at roughly age 95). This error stems from the presence in the data of "phantom records" which may have arisen if a person were registered in the program more than once, if information about a person were miscoded when he registered, or if a person's death were not reported. Such phantom records are not of much concern to program administrators, however, because the Medicare program does not pay monthly cash benefits.

In this study we used central death rates calculated from Vital Statistics tabulations of deaths and Census estimates of populations for the period 1900-1967. For the period 1968-1980 we used those same two sources for ages under 65, but we used records of the Medicare program to calculate rates for ages 65 and over.

2. Adjustments

Populations in some quinquennial age groups for some years were estimated from published figures comprising broader age groups. Death Registration States populations during 1900-1932 for age groups 5-9, 10-14, ..., and 70-74 were estimated from the groups 5-14, 15-24, ..., 65-74 by assuming that the distributions of quinquennial groups within decennial groups were as published for the United States resident populations. Death Registration States populations during 1900-1932 and United States populations during 1933-1939 for age groups 75-79 and 80-84 were estimated from the group 75-84 by assuming distributions as linearly interpolated from Census enumerations. Death Registration States populations during 1900-1932 and United States populations during 1933-1967 for age groups 85-89, 90-94, and 95 and over were estimated from the group 85 and over and from tabulated deaths for the groups 85-89, 90-94, and 95 and over such that the improvement in mortality throughout the period would be uniformly distributed across the age groups. Conterminous United States populations during 1950-1959 for age groups 0 and 1-4 were estimated from the group 0-4 by assuming the same distribution as in the United States, Alaska, and Hawaii combined. For 1959, deaths occurring in Alaska were excluded from total deaths, so that the population of the conterminous United States could be used to calculate death rates. For all years, deaths tabulated at "age unstated" were prorated across the tabulated age groups.

3. Projections

Any creditable attempt at projecting mortality must begin with a study of past trends. Central death rates (adjusted to take into account changes in the age distribution of the population) show four distinct periods of diverse improvement since 1900. During the period 1900-1936, annual mortality improvement averaged about 0.9 percent for males and 1.0 percent for females. Following this was a period of rapid improvement, 1936-1954, averaging 1.7 percent per year for males and 2.6 percent per year for females. The period 1954-1968 saw an actual deterioration for males averaging 0.1 percent per year and a much slower improvement averaging 0.8 percent per year for females. From 1968 through 1981 rapid improvement in mortality resumed, averaging 1.8 percent for males and 2.2 percent for females, annually.

Past improvement in mortality has varied greatly by cause of death. For the period 1968-78, we analyzed central death rates by age group and sex for ten major groups of causes of death, which are as follows:

- I. Diseases of the Heart (Eighth Revision of the International List of Diseases and Causes of Death code numbers 390-398, 402, 404, 410-429)
- II. Malignant Neoplasms (140-209)
- III. Vascular Diseases (400-401, 403, 430-458, 582-584)
- IV. Accidents, Suicide, and Homicide (E800-E989)
- V. Diseases of the Respiratory System (460-519)
- VI. Congenital Malformations and Diseases of Early Infancy (740-778)
- VII. Diseases of the Digestive System (520-570, 572-577)
- VIII. Diabetes Mellitus (250)
- IX. Cirrhosis of the Liver (571)
- X. All Other Causes

Average annual improvements were calculated as the complement of the exponential of the slope of the least-squares line through the logarithms of the central death rates, and are given in Table 1. The sharpest improvement was in Congenital Malformations and Diseases of Early Infancy, averaging over 5 percent per year. Averaging $2\frac{1}{2}$ to 4 percent improvement per year were Heart Disease, Vascular Disease, Digestive Disease, and Diabetes Mellitus. At about 2 percent improvement per year were Respiratory Disease and Accidents, Suicide, and Homicide. Cirrhosis of the Liver and the residual group of Other Causes averaged $\frac{1}{2}$ to 1 percent improvement per year, while Cancer showed a deterioration.

Future improvements in mortality will depend upon such factors as: the development and application of new diagnostic and surgical techniques, the presence of environmental pollutants, improvements in exercise and nutrition, the incidence of violence, the isolation and treatment of causes of disease, improvements in prenatal care, the incidence of abortion, the prevalence of cigarette smoking, the misuse of drugs (including alcohol), the extent to which people assume responsibility for their own health, and changes in our conception of the value of life. After considering how these and other factors might affect mortality, we postulated annual percentage improvements in central death rates by sex and cause of death for the year 2007 and later, which are as follows:

	I	II	III	IV	V	VI	VII	VIII	IX	X
Male	0.70	0.20	0.90	0.00	0.10	1.00	0.70	0.40	0.20	0.30
Female	0.70	0.30	0.90	0.00	0.20	1.00	0.70	0.50	0.20	0.30

Prior to 2007, mortality improvement was assumed to change gradually from the average annual improvements by age group, sex, and cause of death observed during 1968-78 to the annual improvements by sex and cause of death postulated for 2007 and later.

Table 2 compares average annual percentage improvements assumed during selected future periods to average annual improvements observed during selected past periods. Improvements for the young are projected to be relatively small because very little additional improvement in infectious diseases (such as poliomyelitis and influenza) is possible and because little improvement in mortality from violent causes (accidents, suicide, and homicide) is expected. Improvements for the aged are expected to continue at a relatively rapid pace, as further strides are made against degenerative diseases (such as heart and vascular disease). The gap between male and female mortality is expected to continue widening, but at a decreased rate as women become increasingly subject to the same environmental pressures and hazards as men. After adjustment for changes in the age distribution of the population, mortality is projected to improve at an average rate of about 0.6 percent per year during 1981-2056. This is about half the average rate of improvement observed during 1900-1981 (with the relative improvement being very heavily concentrated toward the older ages).

C. Methods

1. Definitions

$D(x)$ = the number of persons who die at age last birthday x in a population during a year

$P(x)$ = the number of persons alive at age last birthday x in a population at the midpoint of a year

$M(x:y)$ = the central death rate for the group consisting of members of a population who are age last birthday x to $x+y-1$

$q(x:y)$ = the probability that a person will die within y years from exact age x

In the following definitions, "survivorship group" refers to a group of 100,000 persons born at the same instant who experience the mortality represented by $q(t:1)$ at each exact integral age t throughout their lives. Also, "stationary population" refers to the population which eventually would result if the mortality represented by $q(t:1)$ were experienced each year at each exact integral age t and if 100,000 births were to occur uniformly throughout each year.

$l(x)$ = the number of persons surviving to exact age x in the survivorship group, or the number of persons reaching exact age x each year in the stationary population

$d(x)$ = the number of persons who die between exact age x and exact age $x+1$ in the survivorship group, or the number of persons who die at age last birthday x each year in the stationary population

$L(x)$ = the number of person-years lived between exact age x and exact age $x+1$ by members of the survivorship group, or the number of persons alive at age last birthday x each year in the stationary population

$T(x)$ = the number of person-years lived after exact age x by members of the survivorship group, or the number of persons alive at age last birthday x or older each year in the stationary population

$\overset{\circ}{e}(x)$ = the average number of years remaining to be lived by a member of the survivorship group who is exact age x

$m(x:y)$ = the central death rate for members of the stationary population who are age last birthday x to $x+y-1$

$f(x:y)$ = the average number of years not lived between exact age x and exact age $x+y$ by members of the survivorship group who die between exact age x and exact age $x+y$.

The fundamental problem of constructing a life table (a table which represents the mortality of a population by the useful functions q , l , d , L , T , and e) is that of making the probabilities of death shown in the life table consistent with the underlying pattern of mortality experienced in the population. The following sections describe the methods used in this study.

2. Ages 0-4

For the period 1940-1978, the probability of death at age 0 ($q(0:1)$) was calculated directly from tabulations of births by month and from tabulations of deaths at ages 0, 1-2, 3-6, and 7-28 days and 1, 2, ..., 11 months. For the period 1900-1939, the probability of death at age 0 was calculated from the population central death rate at age 0 by a linear regression based on data points for 1940-78. After 1978, the probability of death at age 0 was calculated from the population central death rate for age 0 and the line connecting the data point for 1978 to the origin.

For the period 1940-1978, probabilities of death at each age 1-4 ($q(x:1)$, $x=1,2,3,4$) were calculated directly from tabulations of births by year and from tabulations of deaths at ages 1, 2, 3, and 4 years. For the period 1900-1939, probabilities of death at each age 1-4 were calculated from the population central death rate for the age group 1-4 by linear regressions based on data points for 1940-78. After 1978, probabilities of death at each age 1-4 were calculated from the population central death rate for the age group 1-4 and the lines connecting the data points for 1978 to the origin.

Tests using values from the official 1900-02 and 1909-11 Decennial Life Tables showed that the regression lines used to determine probabilities of death from population central death rates during 1900-39 gave reasonable results. The lines used to determine probabilities of death from population central death rates after 1978 also give reasonable results because the probabilities are so low that some function deviating not too much from a line must connect the 1978 data point and the origin. Following are coefficients expressing probabilities of death as functions of population central death rates ($y = mx+b$).

	<u>y</u>	<u>x</u>	<u>1900-1939</u>		<u>1979 and later</u>	
			<u>m</u>	<u>b</u>	<u>m</u>	<u>b</u>
Male	$q(0:1)$	$M(0:1)$	.769220	.004684	.994869	.000000
	$q(1:1)$	$M(1:4)$	1.873316	-.000378	1.430895	.000000
	$q(2:1)$	$M(1:4)$	.946453	.000049	1.044975	.000000
	$q(3:1)$	$M(1:4)$	.649201	.000140	.811562	.000000
	$q(4:1)$	$M(1:4)$	.514069	.000142	.665593	.000000
Female	$q(0:1)$	$M(0:1)$	.782225	.003566	1.000105	.000000
	$q(1:1)$	$M(1:4)$	1.907972	-.000262	1.612837	.000000
	$q(2:1)$	$M(1:4)$	.926849	.000045	.998013	.000000
	$q(3:1)$	$M(1:4)$	.668743	.000073	.748840	.000000
	$q(4:1)$	$M(1:4)$	.530883	.000082	.595658	.000000

During the first year of life, mortality starts at an extremely high level for the first few days then progressively becomes much smaller (unlike mortality at other ages which does not change very much within an age interval). Thus it is particularly important at age 0 to estimate accurately the pattern of mortality throughout the year of age. One convenient measure of this pattern is the average fraction of a year not lived by those who die (called the separation factor). For each of the years 1940-1978 the separation factor at age 0 ($f(0:1)$) was calculated directly from probabilities of death within the exact age intervals 0-1, 1-3, 3-7, and 7-28 days and 1-2, 2-3, ..., 11-12 months. For each of the years 1900-1939 the separation factor at age 0 was linearly interpolated between the separation factor for 1940 and the separation factor calculated from the official 1900-02 Decennial Life Tables. Tests using data from the official 1909-11, 1919-21, and 1929-31 Decennial Life Tables showed that this interpolation gave reasonable results. For years after 1978, the separation factor at age 0 was assumed to remain constant. Because mortality does not change very much within each of the second through fifth years of life, a separation factor of $\frac{1}{2}$ may be assumed.

The life table functions l , d , and L were calculated as follows:

$$\begin{aligned} l(0) &= 100000 \\ l(x) &= l(x-1) \cdot (1 - q(x-1:1)) \quad x = 1, 2, 3, 4 \\ d(x) &= l(x) \cdot q(x:1) \quad x = 0, 1, 2, 3, 4 \\ L(0) &= l(0) - f(0:1) \cdot d(0) \\ L(x) &= l(x) - \frac{1}{2} \cdot d(x) \quad x = 1, 2, 3, 4 \end{aligned}$$

3. Ages 5-94

One method that has been used to make the probabilities of death shown in the life table consistent with the underlying pattern of mortality experienced in the population is to require that the life table central death rates for quinquennial age groups equal the population central death rates [6]. That is,

$$m(x:5) = M(x:5) \quad x = 5, 10, \dots, 90$$

$$\text{where} \quad m(x:5) = \frac{d(x) + d(x+1) + \dots + d(x+4)}{L(x) + L(x+1) + \dots + L(x+4)}$$

$$\text{and} \quad M(x:5) = \frac{D(x) + D(x+1) + \dots + D(x+4)}{P(x) + P(x+1) + \dots + P(x+4)}$$

Unfortunately, this method may not produce a very high degree of consistency because the age distribution within quinquennial age groups in the stationary population generally differs from that in the actual population [5]. The method can be improved based on the relationship,

$$\begin{aligned}
m(x:5) &= \frac{d(x) + d(x+1) + \dots + d(x+4)}{L(x) + L(x+1) + \dots + L(x+4)} \\
&= \frac{\frac{d(x) \cdot L(x)}{L(x)} + \frac{d(x+1) \cdot L(x+1)}{L(x+1)} + \dots + \frac{d(x+4) \cdot L(x+4)}{L(x+4)}}{L(x) + L(x+1) + \dots + L(x+4)} \\
&= \frac{m(x:1) \cdot L(x) + m(x+1:1) \cdot L(x+1) + \dots + m(x+4:1) \cdot L(x+4)}{L(x) + L(x+1) + \dots + L(x+4)}
\end{aligned}$$

Because the central death rate for an age group is a weighted average of the central death rates for the single ages comprising the group, the degree of consistency between probabilities of death in the life table and the underlying pattern of mortality in the population can be improved by changing the weights from the stationary population to the actual population. That is, by requiring that

$$\tilde{m}(x:5) = M(x:5) \quad x = 5, 10, \dots, 90$$

$$\text{where } \tilde{m}(x:5) = \frac{m(x:1) \cdot P(x) + m(x+1:1) \cdot P(x+1) + \dots + m(x+4:1) \cdot P(x+4)}{P(x) + P(x+1) + \dots + P(x+4)}$$

This requirement, which we used as the basis for constructing our life tables, can be achieved by a rapidly-converging iterative process.

We assumed initially that the separation factors for quinquennial age groups were such that deaths occurred on average at the midpoint of the age interval. That is,

$$f(x:5) = 2\frac{1}{2} \quad x = 5, 10, \dots, 90$$

We then calculated probabilities of death within five years at exact quinquennial ages by the following relation:

$$q(x:5) = \frac{5 \cdot M(x:5)}{1 + f(x:5) \cdot M(x:5)} \quad x = 5, 10, \dots, 90$$

Probabilities of death within one year can be interpolated from the probability of death within five years based on the relationship

$$\log(1 - q(x:5)) = \log(1 - q(x:1)) + \log(1 - q(x+1:1)) + \dots + \log(1 - q(x+4:1))$$

To accomplish the interpolation we used a fourth degree osculatory formula developed by H.S. Beers [3], having coefficients for starting and ending groups as follows:

	q(5:5)	q(10:5)	q(15:5)	q(20:5)	q(25:5)	
q(5:1)	.3333	-.1636	-.0210	.0796	-.0283	q(94:1)
q(6:1)	.2595	-.0780	.0130	.0100	-.0045	q(93:1)
q(7:1)	.1924	.0064	.0184	-.0256	.0084	q(92:1)
q(8:1)	.1329	.0844	.0054	-.0356	.0129	q(91:1)
q(9:1)	.0819	.1508	-.0158	-.0284	.0115	q(90:1)
q(10:1)	.0404	.2000	-.0344	-.0128	.0068	q(89:1)
q(11:1)	.0093	.2268	-.0402	.0028	.0013	q(88:1)
q(12:1)	-.0108	.2272	-.0248	.0112	-.0028	q(87:1)
q(13:1)	-.0198	.1992	.0172	.0072	-.0038	q(86:1)
q(14:1)	-.0191	.1468	.0822	-.0084	-.0015	q(85:1)
	q(90:5)	q(85:5)	q(80:5)	q(75:5)	q(70:5)	

and coefficients for interior groups as follows:

	q(x-10:5)	q(x-5:5)	q(x:5)	q(x+5:5)	q(x+10:5)	
q(x:1)	-.0117	.0804	.1570	-.0284	.0027	q(x+4:1)
q(x+1:1)	-.0020	.0160	.2200	-.0400	.0060	q(x+3:1)
q(x+2:1)	.0050	-.0280	.2460	-.0280	.0050	q(x+2:1)
q(x+3:1)	.0060	-.0400	.2200	.0160	-.0020	q(x+1:1)
q(x+4:1)	.0027	-.0284	.1570	.0804	-.0117	q(x:1)
	q(x+10:5)	q(x+5:5)	q(x:5)	q(x-5:5)	q(x-10:5)	

The life table values l , d , and L were calculated for each age 5-94 by the same relations used for ages 1-4.

On subsequent iterations, the separation factors were revised as follows:

$$f(x:5) = \frac{5}{q(x:5)} - \frac{1}{\tilde{m}(x:5)} \quad x = 5, 10, \dots, 90$$

The iteration process was continued until $\tilde{m}(x:5)$ was acceptably close to $M(x:5)$ for $x=5, 10, \dots, 90$.

4. Ages 95 and Over

It has been observed that the mortality rates of women, though lower than those of men, tend to increase faster with age than those of men. An analysis of the mortality of Social Security charter old-age insurance beneficiaries has shown that at the very old ages mortality increases about 4 percent per year of age for men and about 5 percent per year of age for women [2]. Probabilities of death at each age 95 and over were calculated as follows for men:

$$q(x:1) = q(x-1:1) \cdot \left[\frac{q(94:1) \cdot 99-x}{q(93:1) \cdot 5} - \frac{1.04 \cdot x-94}{5} \right] \quad x = 95, 96, \dots, 99$$

$$q(x:1) = 1.04 \cdot q(x-1:1) \quad x = 100, 101, \dots$$

For women, the same formulas were used, except that 1.05 was substituted for 1.04. The larger rate of growth in female mortality would eventually, at a very high age, cause female mortality to be higher than male mortality. At the point where this crossover would occur, we substituted male mortality for female mortality. The life table values for l , d , and L were calculated at each age 95-148 by the same relations used for ages 1-4. The life tables were truncated beyond age 148. Values for the life table function T were calculated by

$$T(x) = L(x) + L(x+1) + \dots + L(148) \quad x = 0,1,\dots,148$$

and values for e were calculated by

$$e(x) = \frac{T(x)}{l(x)} \quad x = 0,1,\dots,148$$

D. Results

Table 4 gives probabilities of death within one year at selected ages, by sex and calendar year. The greatest relative improvement in mortality during this century has occurred at the young ages, resulting largely from the control of infectious diseases. The probability of death at age 0 decreased 90 percent between 1900 and 1980 for both males and females. At age 30 the decrease was 77 percent for males and 91 percent for females, reflecting the favorable childbearing mortality experience of females and the adverse accident mortality experience of males. At age 65 the probability of death decreased only 30 percent for males and 61 percent for females between 1900-1980. This large sex differential in mortality improvement is attributed partly to genetic factors and partly to environmental factors. If the genetic factors are more important, then the sex gap in mortality can be expected to remain large or even widen. If the environmental factors are more important, then the sex gap can be expected to close somewhat as women become increasingly subject to the same pressures and hazards as men. For example, during the period 1970-1980 when great strides were made in degenerative diseases affecting the cardiovascular system, male mortality at age 65 decreased 15 percent while female mortality decreased only 9 percent. In general, however, mortality improvement continues to be somewhat greater for females than for males at most ages.

Table 5 gives life expectancy at selected ages, by sex and calendar year. Life expectancy at age 0 for males increased 23.29 years from 46.56 years in 1900 to 69.85 years in 1980. During the same period, life expectancy at age 0 for females increased 28.46 years from 49.07 years to 77.53 years. Thus the sex gap in life expectancy at birth has increased from 2.51 years in 1900 to 7.68 years in 1980. There is some evidence that the widening of this sex gap has stabilized, in that very little change has occurred during the 1970's. Chart 1a shows life expectancy at age 0, by sex and calendar year. Rapid gains in life expectancy at age 0 occurred from 1900 through the mid 1950's for both males and females. From the mid 1950's through the mid 1960's, male life expectancy at age 0 remained level, while female life expectancy at age 0 increased moderately. During the 1970's rapid improvement resumed for both males and females.

Life expectancy at age 65 for males increased from 11.35 years in 1900 to 14.02 years in 1980, while life expectancy at age 65 for females increased from 12.01 years to 18.35 years. Thus the sex gap in life expectancy at age 65 has increased from .66 years to 4.33 years between 1900 and 1980. At age 65, the widening of the sex gap in life expectancy has not stabilized during the 1970's. This trend foreshadows an increasing scarcity of male companionship for women in their later years. Chart 1b shows life expectancy at age 65, by sex and calendar year. Life expectancy at age 65 increased very little from 1900 to 1930. Since that time rapid gains in life expectancy at age 65 have occurred for females. Rapid improvement has also occurred for males, with the exception of a dormant period during the 1950's and 1960's.

Table 6 gives life endurances at selected survival rates, by sex and calendar year. Life endurancy at survival rate 1/2 for males increased 18.07 years from 55.31 years in 1900 to 73.38 years in 1980. For females the increase was 23.02 years from 58.27 years in 1900 to 81.29 years in 1980. Chart 2a shows life endurancy at survival rate 1/2, by sex and calendar year. The shapes of the life endurancy curves at survival rate 1/2 are similar to the shapes of the life expectancy curves at age 0, except that the amount of increase is somewhat less.

Life endurancy at survival rate 1/100,000 for males increased from 104.77 years in 1900 to 111.41 years in 1980, while life endurancy at survival rate 1/100,000 for females increased from 105.38 years to 113.87 years. This trend runs counter to the widely held belief that the age attained by the oldest survivors in the population has risen little, if at all, this century. True, the life endurances at low survival rates are heavily dependent upon the method used to finish the life tables (which is based more on judgement than data), but we hold that any reasonable method will show such an increase in the life endurancy at the low survival rates. This is true because if the age attained by the oldest survivors is fixed through time while the mortality rates at all observable ages are declining through time, then the mortality rates at some higher unobservable ages must be increasing through time--a result which is incompatible with our understanding of mortality. Chart 2b shows life endurancy at survival rate 1/100,000, by sex and calendar year. Life endurancy at survival rate 1/100,000 increased very little from 1900 through 1930. Since that time, life endurancy at survival rate 1/100,000 has increased sharply, with the exception of a level period during the 1950's.

Chart 3 shows the survivorship group in selected calendar years, by age. Great strides have been made in this century toward eliminating the hazards to survival which existed at the young ages in the early 1900's. Very little additional improvement to survival rates are projected at these young ages, while survival rates at the older ages are projected to continue to improve steadily. Although the shape of the survivorship curve has become more rectangular through time, it appears that very little additional rectangularization will occur because survival rates at the young ages are already so high. The so-called "curve squaring" concept, though appealing to many, simply cannot be supported by the mathematics of mortality. The age at which the survivorship curve becomes effectively zero (through the compounding of probabilities of survival) has increased greatly this century and will continue to increase as further strides are made against degenerative diseases. That mortality rates continue to decline demonstrates that the biological life span for humans has not yet been reached.

Tables 7 and 8 give life expectancies at selected ages and life endurances at selected survival rates, by sex and year of birth. These tables are constructed on a cohort basis rather than a period basis. That is, they represent the actual experience of specific birth cohorts of persons. These tables are not of particular value in analyzing mortality (because period effects on mortality are much stronger than cohort effects), but are included for those who may find them of interest.

Table 1. Average Annual Percentage Improvements in Central Death Rates during 1968-78, by Age, Sex, and Cause of Death

Sex	Age Last Birthday	Total	Cause of Death									
			Heart Disease	Cancer	Vascular Disease	Violence	Respiratory Disease	Infancy	Digestive Disease	Diabetes Mellitus	Liver Cirrhosis	Other
Male	0	5.08	-8.66	2.44	-.45	6.44	14.42	6.01	2.79	7.52	1.76	-3.91
	1-4	2.87	-2.16	4.93	2.53	1.37	10.27	1.70	4.66	9.33	5.96	2.21
	5-9	3.28	.90	4.04	3.27	2.41	8.17	4.44	6.36	10.77	5.64	3.54
	10-14	2.16	.68	2.59	5.20	1.56	5.94	2.88	4.98	10.65	3.24	2.51
	15-19	1.40	1.06	3.42	6.62	.81	7.08	3.45	8.71	8.65	9.15	2.36
	20-24	1.44	1.86	3.36	5.62	.97	6.56	4.00	6.53	7.63	.89	1.86
	25-29	1.11	2.80	2.59	5.88	.54	6.08	3.48	5.67	5.92	- .25	-.43
	30-34	2.21	3.88	2.51	6.28	1.34	6.31	4.09	4.37	4.65	1.35	1.64
	35-39	2.66	4.12	2.17	5.76	1.42	7.08	3.67	4.05	4.43	1.38	2.22
	40-44	2.69	3.50	1.35	5.05	1.74	6.09	4.10	4.32	3.80	1.45	2.11
	45-49	2.38	3.11	-.16	4.86	2.19	5.58	5.79	3.70	3.32	.88	2.11
	50-54	2.16	2.84	-.55	4.76	2.54	4.69	5.42	3.98	3.21	1.01	1.73
	55-59	2.55	3.11	.09	4.80	3.42	4.17	4.22	4.87	3.15	1.30	2.45
	60-64	2.00	2.64	-.59	4.41	2.97	3.02	1.72	4.15	3.31	.42	1.74
	65-69	1.58	2.21	-1.02	4.02	2.91	1.39	1.60	4.33	2.88	-.56	1.03
	70-74	1.51	2.18	-1.30	3.81	2.58	-.85	2.22	4.11	2.86	-.78	.44
	75-79	1.43	2.04	-1.32	3.48	2.52	-.19	2.89	4.19	3.01	-.29	-.12
80-84	1.54	2.09	-1.54	3.79	3.12	-1.16	3.13	3.33	3.04	.28	-.38	
85-89	1.56	1.88	-1.77	3.67	3.43	-1.07	5.51	2.57	2.43	.92	-.02	
90-94	1.59	1.60	-1.85	3.55	2.78	.06	-.41	2.23	.23	2.14	.23	
Total	1.89	2.31	-.80	3.93	1.91	1.67	5.74	3.93	3.01	.64	.65	
Female	0	4.67	-7.47	3.97	-1.49	6.36	14.16	5.33	2.97	6.31	1.54	-3.61
	1-4	3.45	-2.70	5.32	2.04	1.77	10.09	1.99	5.25	10.42	14.50	3.86
	5-9	3.46	2.18	4.79	3.65	2.28	7.57	3.41	6.61	7.08	22.93	3.39
	10-14	2.59	.09	3.75	6.95	.77	6.43	1.63	8.75	9.15	19.93	3.41
	15-19	1.69	3.13	2.73	5.98	-.07	6.73	3.31	9.27	8.35	13.92	4.33
	20-24	1.77	2.18	3.26	6.44	-.44	7.31	3.96	9.32	7.38	3.38	3.87
	25-29	2.62	4.54	1.94	6.40	.45	8.12	4.54	7.07	6.57	3.95	3.55
	30-34	3.76	6.10	2.20	7.72	1.43	8.32	3.27	6.44	5.31	4.71	4.87
	35-39	4.01	5.36	2.66	6.39	2.36	7.05	2.94	5.72	4.22	4.65	4.89
	40-44	3.00	4.03	1.66	5.14	1.72	6.21	4.37	4.10	3.63	3.19	3.50
	45-49	2.53	3.43	.92	5.04	1.94	4.81	4.75	3.90	4.26	2.43	3.06
	50-54	2.07	3.31	.24	4.02	2.49	3.69	4.84	3.43	4.41	1.80	2.38
	55-59	2.00	3.42	-.18	4.34	2.51	1.91	4.67	4.24	4.74	1.11	2.09
	60-64	1.51	3.00	-1.12	3.93	2.92	-.07	3.72	3.73	4.56	-.64	.75
	65-69	1.67	2.92	-1.27	4.19	2.72	-.73	1.97	3.95	4.48	-1.56	.11
	70-74	2.30	3.24	-.66	4.37	3.49	-.21	1.01	3.99	4.53	-1.14	-.33
	75-79	2.56	3.04	-.09	4.19	4.32	.56	1.52	3.87	4.55	.13	-.62
80-84	2.60	2.88	-.32	4.05	5.15	1.36	3.27	3.31	3.38	1.50	-.92	
85-89	2.43	2.44	-.26	3.79	5.94	1.83	4.70	2.14	1.93	1.77	-1.26	
90-94	1.96	1.74	-.63	3.37	6.10	1.53	-.39	1.45	-.63	1.52	-1.53	
Total	2.39	2.85	-.18	4.09	2.36	2.60	5.08	3.64	4.05	1.36	.61	

E. Tables

Table 2. Comparison of Average Annual Percentage Improvements in Central Death Rates during Selected Past and Future Periods, by Age and Sex

Sex	Age Last Birthday	Absolute						Relative to 1968-1981		Relative to 1900-1981		
		1900-1936	1936-1954	1954-1968	1968-1981	1900-1981	1981-2006	1981-2056	1981-2006	1981-2056	1981-2006	1981-2056
Male	0	2.71	4.27	1.72	4.98	3.26	1.09	.72	.22	.15	.33	.22
	1-4	3.91	6.99	1.72	2.87	4.07	1.26	.56	.44	.20	.31	.14
	5-9	2.58	5.37	1.28	3.52	3.13	1.77	.68	.50	.19	.56	.22
	10-14	1.77	4.74	1.22	2.37	2.44	1.25	.49	.53	.21	.51	.20
	15-19	1.62	3.16	-.56	1.27	1.54	.75	.28	.59	.22	.49	.18
	20-24	1.97	3.12	-.15	1.30	1.76	.82	.30	.63	.23	.46	.17
	25-29	1.87	4.21	-.62	.51	1.76	.56	.23	1.08	.45	.32	.13
	30-34	2.03	4.38	-.53	1.64	2.06	1.21	.48	.74	.29	.59	.23
	35-39	1.56	3.89	-.65	2.57	1.87	1.45	.60	.56	.24	.78	.32
	40-44	1.31	2.75	-.11	2.65	1.61	1.57	.71	.59	.27	.98	.44
	45-49	.86	2.04	.00	2.51	1.24	1.29	.65	.51	.26	1.04	.52
	50-54	.40	1.35	.08	2.11	.83	1.14	.62	.54	.29	1.37	.74
	55-59	.55	.94	.02	2.40	.84	1.39	.72	.58	.30	1.65	.85
	60-64	.32	.72	-.36	2.17	.59	1.08	.62	.50	.28	1.83	1.04
	65-69	.28	.84	-.19	1.55	.53	.87	.55	.56	.36	1.64	1.04
	70-74	.26	.92	-.27	1.46	.51	.83	.54	.57	.37	1.63	1.07
	75-79	.05	1.46	-.25	1.41	.53	.78	.54	.55	.38	1.47	1.01
	80-84	.24	1.26	.17	1.49	.66	.80	.55	.53	.37	1.21	.84
	85-89	.22	1.21	-.89	1.40	.44	.85	.59	.61	.42	1.93	1.33
	90-94	.22	1.21	-.89	1.39	.44	.97	.65	.70	.47	2.20	1.48
Total	.89	1.66	-.15	1.82	1.03	.97	.58	.53	.32	.94	.56	
Female	0	2.83	4.38	1.74	4.66	3.29	1.19	.78	.26	.17	.36	.24
	1-4	4.07	7.20	2.02	3.20	4.29	1.52	.68	.47	.21	.35	.16
	5-9	3.04	5.92	1.28	3.16	3.41	1.87	.75	.59	.24	.55	.22
	10-14	2.51	6.07	1.26	2.46	3.09	1.17	.50	.47	.20	.38	.16
	15-19	1.90	6.39	.12	2.04	2.64	.52	.22	.25	.11	.20	.08
	20-24	1.90	7.13	.46	2.06	2.87	.44	.20	.21	.10	.15	.07
	25-29	1.83	6.87	.61	2.29	2.84	1.12	.46	.49	.20	.39	.16
	30-34	2.03	5.92	.34	3.67	2.89	1.76	.71	.48	.19	.61	.25
	35-39	1.54	5.00	.09	4.13	2.49	2.14	.89	.52	.22	.86	.36
	40-44	1.38	3.78	.38	3.09	2.02	1.70	.77	.55	.25	.84	.38
	45-49	.97	3.20	.21	2.58	1.60	1.45	.71	.56	.28	.91	.45
	50-54	.74	2.74	.61	2.06	1.38	1.13	.62	.55	.30	.82	.45
	55-59	.82	2.63	.93	1.88	1.41	1.00	.59	.53	.31	.71	.42
	60-64	.59	2.43	.72	1.52	1.17	.67	.49	.44	.32	.57	.42
	65-69	.54	2.40	1.15	1.29	1.18	.73	.53	.57	.41	.62	.44
	70-74	.46	2.01	1.21	1.91	1.17	1.11	.68	.58	.35	.95	.58
	75-79	.19	2.18	1.08	2.34	1.13	1.40	.80	.60	.34	1.23	.71
	80-84	.31	1.78	.91	2.41	1.08	1.49	.86	.62	.36	1.38	.80
	85-89	.23	1.21	.13	2.24	.76	1.47	.87	.66	.39	1.95	1.15
	90-94	.23	1.21	.13	1.78	.68	1.25	.81	.70	.46	1.84	1.19
Total	1.03	2.62	.82	2.20	1.54	1.20	.70	.55	.32	.78	.46	

Table 3a. Calendar Year 1900 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
0	.14306	100000	14306	90225	4655838	46.56	0	.11762	100000	11762	92186	4906784	49.07
1	.03827	85694	3279	84054	4565612	53.28	1	.03632	88238	3205	86636	4814598	54.56
2	.01957	82414	1613	81608	4481558	54.38	2	.01782	85033	1515	84276	4727962	55.60
3	.01353	80801	1093	80255	4399951	54.45	3	.01290	83519	1077	82980	4643686	55.60
4	.01075	79708	857	79280	4319696	54.19	4	.01026	82442	846	82019	4560706	55.32
5	.00791	78851	624	78539	4240417	53.78	5	.00759	81596	619	81286	4478688	54.89
6	.00569	78227	445	78004	4161877	53.20	6	.00549	80977	445	80754	4397402	54.30
7	.00408	77782	317	77623	4083873	52.50	7	.00399	80532	322	80371	4316648	53.60
8	.00306	77465	237	77346	4006250	51.72	8	.00307	80210	246	80087	4236277	52.81
9	.00257	77228	198	77129	3928904	50.87	9	.00266	79964	213	79858	4156190	51.98
10	.00249	77029	192	76933	3851775	50.00	10	.00265	79751	211	79646	4076332	51.11
11	.00267	76838	205	76735	3774842	49.13	11	.00287	79540	228	79426	3996687	50.25
12	.00293	76632	225	76520	3698107	48.26	12	.00314	79312	249	79187	3917261	49.39
13	.00315	76408	241	76287	3621587	47.40	13	.00332	79063	262	78932	3838073	48.54
14	.00335	76167	255	76039	3545299	46.55	14	.00346	78801	273	78664	3759142	47.70
15	.00367	75912	279	75772	3469260	45.70	15	.00370	78528	291	78383	3680477	46.87
16	.00415	75633	314	75476	3393488	44.87	16	.00411	78237	321	78077	3602095	46.04
17	.00468	75319	352	75143	3318012	44.05	17	.00457	77916	356	77738	3524018	45.23
18	.00523	74967	392	74771	3242869	43.26	18	.00506	77560	393	77364	3446280	44.43
19	.00580	74574	432	74358	3168099	42.48	19	.00558	77167	431	76952	3368916	43.66
20	.00642	74142	476	73904	3093740	41.73	20	.00615	76737	472	76501	3291964	42.90
21	.00702	73666	517	73407	3019836	40.99	21	.00670	76265	511	76009	3215464	42.16
22	.00744	73149	545	72876	2946429	40.28	22	.00712	75754	540	75484	3139454	41.44
23	.00762	72604	553	72328	2873553	39.58	23	.00737	75214	554	74937	3063970	40.74
24	.00761	72051	548	71777	2801225	38.88	24	.00748	74660	558	74381	2989033	40.04
25	.00753	71503	538	71234	2729448	38.17	25	.00754	74101	559	73822	2914653	39.33
26	.00750	70965	532	70699	2658214	37.46	26	.00763	73543	561	73262	2840831	38.63
27	.00756	70433	532	70167	2587515	36.74	27	.00774	72982	565	72699	2767568	37.92
28	.00776	69901	542	69630	2517349	36.01	28	.00790	72417	572	72131	2694869	37.21
29	.00806	69359	559	69079	2447719	35.29	29	.00809	71845	581	71555	2622738	36.51
30	.00838	68800	577	68511	2378640	34.57	30	.00829	71264	590	70969	2551183	35.80
31	.00867	68223	591	67927	2310128	33.86	31	.00846	70674	598	70375	2480214	35.09
32	.00894	67632	605	67329	2242201	33.15	32	.00861	70076	604	69774	2409840	34.39
33	.00917	67027	615	66720	2174872	32.45	33	.00875	69472	608	69168	2340066	33.68
34	.00938	66412	623	66101	2108152	31.74	34	.00886	68865	610	68559	2270897	32.98
35	.00960	65789	632	65474	2042051	31.04	35	.00899	68254	614	67947	2202338	32.27
36	.00984	65158	641	64837	1976577	30.34	36	.00913	67640	618	67332	2134390	31.55
37	.01008	64516	650	64191	1911741	29.63	37	.00928	67023	622	66712	2067059	30.84
38	.01029	63866	657	63537	1847549	28.93	38	.00943	66401	626	66088	2000347	30.13
39	.01051	63209	664	62876	1784012	28.22	39	.00958	65775	630	65460	1934259	29.41

Table 3a. Calendar Year 1900 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$
40	.01074	62544	672	62208	1721136	27.52	40	.00977	65145	636	64826	1868799	28.69
41	.01102	61872	682	61532	1658927	26.81	41	.00999	64508	644	64186	1803973	27.96
42	.01134	61191	694	60844	1597395	26.11	42	.01025	63864	654	63537	1739787	27.24
43	.01172	60497	709	60143	1536551	25.40	43	.01054	63209	667	62876	1676250	26.52
44	.01217	59788	728	59424	1476409	24.69	44	.01089	62543	681	62202	1613374	25.80
45	.01268	59060	749	58686	1416985	23.99	45	.01128	61862	698	61513	1551172	25.07
46	.01323	58312	772	57926	1358299	23.29	46	.01173	61164	717	60805	1489659	24.36
47	.01383	57540	796	57142	1300373	22.60	47	.01227	60446	741	60076	1428854	23.64
48	.01446	56744	821	56334	1243231	21.91	48	.01290	59705	770	59320	1368778	22.93
49	.01515	55923	847	55500	1186897	21.22	49	.01363	58934	804	58533	1309459	22.22
50	.01589	55076	875	54639	1131397	20.54	50	.01445	58131	840	57711	1250926	21.52
51	.01673	54201	907	53748	1076758	19.87	51	.01532	57291	878	56852	1193215	20.83
52	.01771	53294	944	52822	1023011	19.20	52	.01624	56413	916	55955	1136363	20.14
53	.01884	52350	986	51857	970189	18.53	53	.01719	55497	954	55020	1080408	19.47
54	.02011	51364	1033	50847	918331	17.88	54	.01819	54543	992	54047	1025389	18.80
55	.02154	50331	1084	49789	867484	17.24	55	.01930	53550	1033	53034	971342	18.14
56	.02307	49247	1136	48679	817695	16.60	56	.02052	52517	1077	51978	918308	17.49
57	.02459	48111	1183	47519	769016	15.98	57	.02181	51440	1122	50879	866330	16.84
58	.02609	46928	1224	46315	721497	15.37	58	.02317	50318	1166	49735	815451	16.21
59	.02762	45703	1262	45072	675182	14.77	59	.02462	49152	1210	48547	765716	15.58
60	.02930	44441	1302	43790	630110	14.18	60	.02627	47942	1259	47312	717169	14.96
61	.03123	43139	1347	42465	586320	13.59	61	.02810	46683	1312	46027	669857	14.35
62	.03339	41792	1396	41094	543855	13.01	62	.03006	45371	1364	44689	623830	13.75
63	.03584	40396	1448	39672	502761	12.45	63	.03216	44007	1415	43299	579141	13.16
64	.03858	38948	1503	38197	463089	11.89	64	.03443	42592	1467	41858	535842	12.58
65	.04159	37446	1557	36667	424892	11.35	65	.03691	41125	1518	40366	493984	12.01
66	.04488	35888	1611	35083	388225	10.82	66	.03971	39607	1573	38821	453617	11.45
67	.04852	34278	1663	33446	353141	10.30	67	.04301	38034	1636	37216	414796	10.91
68	.05253	32615	1713	31758	319695	9.80	68	.04689	36399	1707	35545	377580	10.37
69	.05691	30902	1759	30022	287937	9.32	69	.05129	34692	1779	33802	342035	9.86
70	.06182	29143	1802	28242	257915	8.85	70	.05627	32912	1852	31986	308233	9.37
71	.06713	27341	1836	26424	229672	8.40	71	.06156	31060	1912	30104	276246	8.89
72	.07254	25506	1850	24581	203249	7.97	72	.06671	29148	1945	28176	246142	8.44
73	.07793	23656	1843	22734	178668	7.55	73	.07157	27204	1947	26230	217966	8.01
74	.08354	21812	1822	20901	155934	7.15	74	.07643	25257	1930	24292	191735	7.59
75	.08945	19990	1788	19096	135033	6.75	75	.08142	23327	1899	22377	167443	7.18
76	.09618	18202	1751	17327	115937	6.37	76	.08727	21427	1870	20492	145066	6.77
77	.10426	16451	1715	15594	98610	5.99	77	.09476	19557	1853	18631	124574	6.37
78	.11400	14736	1680	13896	83016	5.63	78	.10428	17704	1846	16781	105943	5.98
79	.12503	13056	1632	12240	69120	5.29	79	.11532	15858	1829	14944	89162	5.62

Table 3a. Calendar Year 1900 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
80	.13692	11424	1564	10642	56880	4.98	80	.12763	14029	1791	13134	74218	5.29
81	.14905	9860	1470	9125	46238	4.69	81	.14001	12239	1713	11382	61084	4.99
82	.16117	8390	1352	7714	37113	4.42	82	.15129	10525	1592	9729	49702	4.72
83	.17303	7038	1218	6429	29399	4.18	83	.16086	8933	1437	8214	39973	4.47
84	.18485	5820	1076	5282	22971	3.95	84	.16962	7496	1271	6860	31759	4.24
85	.19707	4744	935	4277	17688	3.73	85	.17889	6224	1114	5668	24898	4.00
86	.20998	3809	800	3409	13412	3.52	86	.18978	5111	970	4626	19231	3.76
87	.22376	3009	673	2673	10002	3.32	87	.20294	4141	840	3721	14605	3.53
88	.23841	2336	557	2058	7330	3.14	88	.21850	3301	721	2940	10884	3.30
89	.25378	1779	452	1553	5272	2.96	89	.23615	2579	609	2275	7944	3.08
90	.26970	1328	358	1149	3719	2.80	90	.25546	1970	503	1719	5669	2.88
91	.28598	970	277	831	2570	2.65	91	.27592	1467	405	1265	3950	2.69
92	.30241	692	209	588	1739	2.51	92	.29704	1062	316	904	2686	2.53
93	.31883	483	154	406	1152	2.38	93	.31840	747	238	628	1781	2.39
94	.33510	329	110	274	746	2.27	94	.33510	509	171	424	1154	2.27
95	.35145	219	77	180	472	2.16	95	.35145	338	119	279	730	2.16
96	.36783	142	52	116	292	2.06	96	.36783	219	81	179	451	2.06
97	.38416	90	34	72	176	1.96	97	.38416	139	53	112	272	1.96
98	.40037	55	22	44	103	1.87	98	.40037	85	34	68	160	1.87
99	.41639	33	14	26	59	1.79	99	.41639	51	21	41	92	1.79
100	.43304	19	8	15	33	1.71	100	.43304	30	13	23	51	1.71
101	.45036	11	5	8	18	1.63	101	.45036	17	8	13	28	1.63
102	.46838	6	3	5	9	1.55	102	.46838	9	4	7	14	1.55
103	.48711	3	2	2	5	1.48	103	.48711	5	2	4	7	1.48
104	.50660	2	1	1	2	1.41	104	.50660	3	1	2	4	1.41
105	.52686	1	0	1	1	1.34	105	.52686	1	1	1	2	1.34
106	.54794	0	0	0	0	1.27	106	.54794	1	0	0	1	1.27
107	.56985	0	0	0	0	1.21	107	.56985	0	0	0	0	1.21
108	.59265	0	0	0	0	1.15	108	.59265	0	0	0	0	1.15
109	.61636	0	0	0	0	1.09	109	.61636	0	0	0	0	1.09
110	.64101	0	0	0	0	1.03	110	.64101	0	0	0	0	1.03
111	.66665	0	0	0	0	.97	111	.66665	0	0	0	0	.97
112	.69332	0	0	0	0	.92	112	.69332	0	0	0	0	.92
113	.72105	0	0	0	0	.87	113	.72105	0	0	0	0	.87
114	.74989	0	0	0	0	.82	114	.74989	0	0	0	0	.82
115	.77989	0	0	0	0	.77	115	.77989	0	0	0	0	.77
116	.81108	0	0	0	0	.72	116	.81108	0	0	0	0	.72
117	.84352	0	0	0	0	.68	117	.84352	0	0	0	0	.68
118	.87727	0	0	0	0	.63	118	.87727	0	0	0	0	.63
119	.91236	0	0	0	0	.59	119	.91236	0	0	0	0	.59

Table 3b. Calendar Year 1910 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
0	.11779	100000	11779	91497	5020462	50.20	0	.09663	100000	9663	93191	5367500	53.67
1	.02738	88221	2415	87013	4928966	55.87	1	.02564	90337	2317	89179	5274309	58.38
2	.01407	85806	1207	85202	4841953	56.43	2	.01263	88020	1112	87464	5185130	58.91
3	.00976	84598	826	84186	4756750	56.23	3	.00915	86909	795	86511	5097666	58.66
4	.00776	83773	650	83448	4672565	55.78	4	.00729	86113	628	85799	5011155	58.19
5	.00579	83123	482	82882	4589117	55.21	5	.00542	85485	463	85254	4925356	57.62
6	.00426	82641	352	82466	4506235	54.53	6	.00396	85022	337	84853	4840102	56.93
7	.00315	82290	259	82160	4423769	53.76	7	.00293	84685	248	84561	4755249	56.15
8	.00246	82031	201	81930	4341609	52.93	8	.00229	84437	194	84340	4670688	55.32
9	.00214	81829	175	81742	4259679	52.06	9	.00202	84244	170	84158	4586348	54.44
10	.00211	81654	172	81568	4177937	51.17	10	.00203	84073	171	83988	4502190	53.55
11	.00226	81482	184	81390	4096369	50.27	11	.00220	83902	185	83810	4418202	52.66
12	.00247	81298	201	81197	4014979	49.39	12	.00241	83717	202	83616	4334392	51.77
13	.00265	81097	215	80989	3933782	48.51	13	.00255	83516	213	83409	4250776	50.90
14	.00282	80882	228	80768	3852793	47.63	14	.00266	83303	222	83192	4167367	50.03
15	.00306	80654	247	80531	3772025	46.77	15	.00284	83081	236	82963	4084175	49.16
16	.00342	80407	275	80270	3691494	45.91	16	.00314	82845	260	82715	4001211	48.30
17	.00383	80132	307	79979	3611224	45.07	17	.00346	82586	286	82443	3918496	47.45
18	.00427	79826	341	79655	3531245	44.24	18	.00381	82300	314	82143	3836053	46.61
19	.00473	79485	376	79296	3451590	43.42	19	.00417	81986	342	81815	3753911	45.79
20	.00524	79108	415	78901	3372294	42.63	20	.00457	81644	373	81457	3672096	44.98
21	.00574	78694	451	78468	3293393	41.85	21	.00495	81271	402	81070	3590639	44.18
22	.00609	78242	476	78004	3214925	41.09	22	.00525	80868	425	80656	3509569	43.40
23	.00624	77766	485	77524	3136920	40.34	23	.00543	80444	437	80225	3428914	42.63
24	.00624	77281	483	77040	3059397	39.59	24	.00552	80007	442	79786	3348688	41.86
25	.00620	76799	476	76561	2982357	38.83	25	.00558	79565	444	79342	3268903	41.08
26	.00621	76322	474	76086	2905796	38.07	26	.00566	79120	448	78897	3189560	40.31
27	.00629	75849	477	75610	2829711	37.31	27	.00577	78673	454	78446	3110664	39.54
28	.00650	75372	490	75127	2754101	36.54	28	.00593	78219	464	77987	3032218	38.77
29	.00680	74882	509	74627	2678974	35.78	29	.00613	77755	477	77516	2954232	37.99
30	.00713	74373	530	74107	2604347	35.02	30	.00635	77278	491	77032	2876716	37.23
31	.00744	73842	550	73567	2530239	34.27	31	.00655	76787	503	76536	2799683	36.46
32	.00773	73292	567	73009	2456672	33.52	32	.00671	76284	512	76028	2723148	35.70
33	.00798	72726	580	72436	2383663	32.78	33	.00683	75772	517	75513	2647120	34.94
34	.00820	72146	592	71850	2311227	32.04	34	.00692	75255	521	74994	2571606	34.17
35	.00844	71554	604	71252	2239378	31.30	35	.00700	74734	523	74472	2496612	33.41
36	.00871	70950	618	70641	2168126	30.56	36	.00711	74211	528	73947	2422140	32.64
37	.00901	70332	634	70015	2097485	29.82	37	.00728	73683	536	73415	2348192	31.87
38	.00938	69698	654	69371	2027469	29.09	38	.00752	73147	550	72872	2274777	31.10
39	.00979	69044	676	68707	1958098	28.36	39	.00781	72597	567	72314	2201905	30.33

Table 3b. Calendar Year 1910 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
40	.01023	68369	699	68019	1889391	27.64	40	.00816	72030	587	71736	2129591	29.57
41	.01068	67669	723	67308	1821372	26.92	41	.00850	71443	608	71139	2057855	28.80
42	.01115	66947	746	66574	1754064	26.20	42	.00883	70835	625	70522	1986716	28.05
43	.01163	66201	770	65816	1687491	25.49	43	.00911	70210	640	69890	1916194	27.29
44	.01213	65431	794	65034	1621675	24.78	44	.00938	69570	653	69244	1846304	26.54
45	.01270	64637	821	64227	1556641	24.08	45	.00968	68917	667	68584	1777060	25.79
46	.01331	63816	849	63391	1492415	23.39	46	.01005	68250	686	67907	1708477	25.03
47	.01386	62967	873	62530	1429023	22.69	47	.01049	67564	709	67210	1640569	24.28
48	.01433	62094	890	61649	1366493	22.01	48	.01102	66856	737	66487	1573359	23.53
49	.01478	61204	904	60752	1304844	21.32	49	.01164	66119	770	65734	1506872	22.79
50	.01524	60299	919	59840	1244093	20.63	50	.01233	65349	806	64946	1441138	22.05
51	.01584	59381	941	58910	1184253	19.94	51	.01310	64543	845	64121	1376192	21.32
52	.01671	58440	976	57952	1125342	19.26	52	.01396	63698	889	63253	1312072	20.60
53	.01791	57464	1029	56949	1067391	18.58	53	.01492	62809	937	62340	1248818	19.88
54	.01938	56435	1094	55888	1010442	17.90	54	.01599	61872	989	61377	1186478	19.18
55	.02103	55341	1164	54759	954554	17.25	55	.01720	60882	1047	60359	1125101	18.48
56	.02274	54177	1232	53561	899795	16.61	56	.01852	59835	1108	59281	1064742	17.79
57	.02446	52945	1295	52297	846234	15.98	57	.01987	58727	1167	58144	1005461	17.12
58	.02613	51650	1350	50975	793937	15.37	58	.02123	57561	1222	56950	947317	16.46
59	.02781	50300	1399	49600	742962	14.77	59	.02266	56339	1276	55700	890367	15.80
60	.02968	48901	1451	48175	693362	14.18	60	.02424	55062	1335	54395	834667	15.16
61	.03176	47450	1507	46696	645186	13.60	61	.02605	53727	1400	53028	780272	14.52
62	.03397	45942	1561	45162	598490	13.03	62	.02810	52328	1471	51592	727244	13.90
63	.03629	44382	1611	43576	553328	12.47	63	.03043	50857	1548	50083	675652	13.29
64	.03879	42771	1659	41941	509752	11.92	64	.03304	49309	1629	48495	625569	12.69
65	.04151	41112	1707	40259	467810	11.38	65	.03591	47680	1712	46824	577074	12.10
66	.04457	39405	1756	38527	427552	10.85	66	.03906	45968	1796	45070	530250	11.54
67	.04808	37649	1810	36744	389025	10.33	67	.04254	44172	1879	43233	485180	10.98
68	.05213	35839	1868	34905	352281	9.83	68	.04635	42293	1960	41313	441947	10.45
69	.05668	33970	1925	33008	317376	9.34	69	.05051	40333	2037	39315	400634	9.93
70	.06173	32045	1978	31056	284369	8.87	70	.05513	38296	2111	37240	361319	9.43
71	.06714	30067	2019	29057	253313	8.43	71	.06011	36185	2175	35097	324079	8.96
72	.07269	28048	2039	27029	224255	8.00	72	.06527	34010	2220	32900	288982	8.50
73	.07831	26009	2037	24991	197227	7.58	73	.07055	31790	2243	30668	256082	8.06
74	.08416	23972	2018	22964	172236	7.18	74	.07608	29547	2248	28423	225413	7.63
75	.09027	21955	1982	20964	149272	6.80	75	.08189	27299	2235	26181	196990	7.22
76	.09706	19973	1939	19004	128308	6.42	76	.08834	25064	2214	23957	170809	6.81
77	.10502	18034	1894	17087	109305	6.06	77	.09589	22850	2191	21754	146852	6.43
78	.11440	16140	1846	15217	92217	5.71	78	.10474	20659	2164	19577	125098	6.06
79	.12486	14294	1785	13402	77000	5.39	79	.11462	18495	2120	17435	105522	5.71

Table 3b. Calendar Year 1910 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$^0e(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$^0e(x)$
80	.13627	12509	1705	11657	63598	5.08	80	.12564	16375	2057	15346	88087	5.38
81	.14785	10805	1597	10006	51942	4.81	81	.13694	14318	1961	13337	72740	5.08
82	.15885	9207	1463	8476	41936	4.55	82	.14745	12357	1822	11446	59403	4.81
83	.16887	7745	1308	7091	33460	4.32	83	.15668	10535	1651	9710	47957	4.55
84	.17847	6437	1149	5862	26369	4.10	84	.16543	8884	1470	8150	38247	4.31
85	.18850	5288	997	4790	20507	3.88	85	.17487	7415	1297	6766	30098	4.06
86	.19967	4291	857	3863	15717	3.66	86	.18595	6118	1138	5549	23332	3.81
87	.21239	3434	729	3070	11855	3.45	87	.19926	4980	992	4484	17782	3.57
88	.22672	2705	613	2398	8785	3.25	88	.21494	3988	857	3559	13298	3.33
89	.24248	2092	507	1838	6387	3.05	89	.23274	3131	729	2766	9739	3.11
90	.25938	1584	411	1379	4549	2.87	90	.25232	2402	606	2099	6972	2.90
91	.27711	1174	325	1011	3170	2.70	91	.27325	1796	491	1551	4873	2.71
92	.29535	848	251	723	2159	2.54	92	.29512	1305	385	1113	3322	2.55
93	.31383	598	188	504	1436	2.40	93	.31383	920	289	776	2210	2.40
94	.33228	410	136	342	932	2.27	94	.33228	631	210	526	1434	2.27
95	.35057	274	96	226	590	2.15	95	.35057	422	148	348	908	2.15
96	.36854	178	66	145	364	2.05	96	.36854	274	101	223	560	2.05
97	.38606	112	43	91	219	1.95	97	.38606	173	67	140	337	1.95
98	.40295	69	28	55	128	1.86	98	.40295	106	43	85	197	1.86
99	.41907	41	17	33	73	1.77	99	.41907	63	27	50	112	1.77
100	.43583	24	10	19	40	1.69	100	.43583	37	16	29	62	1.69
101	.45326	13	6	10	22	1.62	101	.45326	21	9	16	34	1.62
102	.47139	7	3	6	11	1.54	102	.47139	11	5	9	17	1.54
103	.49025	4	2	3	6	1.47	103	.49025	6	3	5	9	1.47
104	.50986	2	1	1	3	1.40	104	.50986	3	2	2	4	1.40
105	.53025	1	1	1	1	1.33	105	.53025	1	1	1	2	1.33
106	.55146	0	0	0	1	1.26	106	.55146	1	0	1	1	1.26
107	.57352	0	0	0	0	1.20	107	.57352	0	0	0	0	1.20
108	.59646	0	0	0	0	1.14	108	.59646	0	0	0	0	1.14
109	.62032	0	0	0	0	1.08	109	.62032	0	0	0	0	1.08
110	.64514	0	0	0	0	1.02	110	.64514	0	0	0	0	1.02
111	.67094	0	0	0	0	.96	111	.67094	0	0	0	0	.96
112	.69778	0	0	0	0	.91	112	.69778	0	0	0	0	.91
113	.72569	0	0	0	0	.86	113	.72569	0	0	0	0	.86
114	.75472	0	0	0	0	.81	114	.75472	0	0	0	0	.81
115	.78491	0	0	0	0	.76	115	.78491	0	0	0	0	.76
116	.81630	0	0	0	0	.71	116	.81630	0	0	0	0	.71
117	.84895	0	0	0	0	.67	117	.84895	0	0	0	0	.67
118	.88291	0	0	0	0	.63	118	.88291	0	0	0	0	.63
119	.91823	0	0	0	0	.59	119	.91823	0	0	0	0	.59

Table 3c. Calendar Year 1920 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
0	.08449	100000	8449	93574	5459216	54.59	0	.06675	100000	6675	95028	5632652	56.33
1	.01891	91551	1731	90685	5365642	58.61	1	.01780	93325	1661	92495	5537624	59.34
2	.00979	89820	880	89380	5274957	58.73	2	.00882	91664	808	91260	5445129	59.40
3	.00682	88941	607	88637	5185577	58.30	3	.00640	90855	582	90564	5353869	58.93
4	.00543	88334	480	88094	5096940	57.70	4	.00511	90273	461	90043	5263305	58.30
5	.00437	87854	384	87662	5008846	57.01	5	.00403	89812	362	89631	5173262	57.60
6	.00354	87470	309	87315	4921184	56.26	6	.00318	89451	285	89308	5083631	56.83
7	.00292	87161	255	87033	4833869	55.46	7	.00256	89166	228	89052	4994323	56.01
8	.00250	86906	217	86797	4746835	54.62	8	.00214	88938	191	88843	4905271	55.15
9	.00225	86689	195	86591	4660038	53.76	9	.00191	88747	170	88662	4816428	54.27
10	.00216	86494	187	86400	4573447	52.88	10	.00185	88578	164	88496	4727766	53.37
11	.00220	86307	190	86212	4487047	51.99	11	.00191	88414	169	88329	4639270	52.47
12	.00236	86117	203	86015	4400835	51.10	12	.00208	88245	183	88153	4550941	51.57
13	.00261	85913	224	85801	4314820	50.22	13	.00231	88061	204	87960	4462788	50.68
14	.00294	85689	252	85563	4229019	49.35	14	.00261	87858	230	87743	4374828	49.79
15	.00334	85437	285	85295	4143456	48.50	15	.00298	87628	261	87498	4287085	48.92
16	.00378	85152	322	84991	4058162	47.66	16	.00340	87367	297	87219	4199588	48.07
17	.00418	84830	355	84653	3973171	46.84	17	.00386	87070	336	86902	4112369	47.23
18	.00451	84476	381	84285	3888517	46.03	18	.00434	86734	376	86546	4025467	46.41
19	.00478	84095	402	83893	3804232	45.24	19	.00483	86358	417	86150	3938921	45.61
20	.00507	83692	425	83480	3720339	44.45	20	.00535	85941	460	85712	3852771	44.83
21	.00537	83268	447	83044	3636859	43.68	21	.00585	85482	500	85232	3767059	44.07
22	.00558	82821	462	82590	3553814	42.91	22	.00623	84982	529	84717	3681828	43.32
23	.00567	82359	467	82126	3471224	42.15	23	.00643	84452	543	84181	3597110	42.59
24	.00569	81892	466	81659	3389099	41.38	24	.00651	83909	546	83636	3512930	41.87
25	.00566	81426	461	81196	3307439	40.62	25	.00653	83363	545	83090	3429294	41.14
26	.00566	80965	458	80736	3226244	39.85	26	.00658	82818	545	82546	3346203	40.40
27	.00575	80507	463	80276	3145507	39.07	27	.00667	82273	549	81999	3263658	39.67
28	.00596	80044	477	79806	3065231	38.29	28	.00684	81725	559	81445	3181659	38.93
29	.00626	79567	498	79318	2985426	37.52	29	.00707	81166	573	80879	3100214	38.20
30	.00659	79069	521	78809	2906107	36.75	30	.00730	80592	588	80298	3019335	37.46
31	.00689	78548	541	78277	2827299	35.99	31	.00749	80004	600	79704	2939037	36.74
32	.00714	78006	557	77728	2749022	35.24	32	.00763	79404	606	79101	2859333	36.01
33	.00729	77450	565	77167	2671294	34.49	33	.00769	78798	606	78496	2780231	35.28
34	.00739	76885	568	76601	2594126	33.74	34	.00769	78193	601	77892	2701736	34.55
35	.00748	76317	571	76032	2517525	32.99	35	.00769	77591	597	77293	2623844	33.82
36	.00760	75747	576	75459	2441493	32.23	36	.00771	76994	594	76697	2546551	33.07
37	.00773	75171	581	74880	2366034	31.48	37	.00774	76401	591	76105	2469854	32.33
38	.00788	74590	588	74296	2291154	30.72	38	.00777	75810	589	75515	2393748	31.58
39	.00804	74002	595	73704	2216858	29.96	39	.00782	75221	589	74926	2318233	30.82

Table 3c. Calendar Year 1920 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
40	.00823	73407	604	73105	2143154	29.20	40	.00789	74632	589	74337	2243307	30.06
41	.00845	72803	615	72495	2070049	28.43	41	.00800	74043	592	73747	2168970	29.29
42	.00871	72187	629	71873	1997554	27.67	42	.00818	73451	601	73150	2095223	28.53
43	.00904	71558	647	71235	1925681	26.91	43	.00845	72850	616	72542	2022073	27.76
44	.00942	70912	668	70578	1854446	26.15	44	.00880	72234	636	71917	1949531	26.99
45	.00986	70244	693	69897	1783869	25.40	45	.00921	71599	660	71269	1877614	26.22
46	.01036	69551	720	69191	1713972	24.64	46	.00967	70939	686	70596	1806345	25.46
47	.01089	68831	750	68456	1644781	23.90	47	.01016	70253	714	69896	1735749	24.71
48	.01147	68081	781	67691	1576325	23.15	48	.01069	69539	743	69167	1665854	23.96
49	.01210	67300	814	66893	1508634	22.42	49	.01125	68796	774	68409	1596686	23.21
50	.01279	66486	850	66061	1441742	21.68	50	.01188	68022	808	67618	1528278	22.47
51	.01357	65635	891	65190	1375681	20.96	51	.01259	67214	846	66791	1460660	21.73
52	.01448	64745	937	64276	1310491	20.24	52	.01338	66368	888	65923	1393869	21.00
53	.01554	63807	991	63312	1246215	19.53	53	.01427	65479	934	65012	1327946	20.28
54	.01673	62816	1051	62291	1182904	18.83	54	.01525	64545	984	64053	1262934	19.57
55	.01809	61765	1117	61207	1120613	18.14	55	.01637	63561	1040	63041	1198881	18.86
56	.01954	60648	1185	60056	1059406	17.47	56	.01759	62521	1100	61971	1135840	18.17
57	.02092	59463	1244	58841	999351	16.81	57	.01882	61421	1156	60843	1073869	17.48
58	.02219	58219	1292	57573	940510	16.15	58	.02002	60265	1207	59662	1013026	16.81
59	.02344	56927	1334	56260	882937	15.51	59	.02128	59058	1257	58430	953364	16.14
60	.02481	55593	1379	54903	826677	14.87	60	.02267	57802	1311	57146	894934	15.48
61	.02647	54213	1435	53496	771774	14.24	61	.02431	56491	1373	55804	837788	14.83
62	.02850	52779	1504	52027	718278	13.61	62	.02624	55118	1447	54394	781984	14.19
63	.03099	51275	1589	50480	666251	12.99	63	.02853	53671	1531	52906	727589	13.56
64	.03390	49686	1684	48843	615771	12.39	64	.03115	52140	1624	51328	674684	12.94
65	.03714	48001	1783	47110	566928	11.81	65	.03408	50516	1722	49655	623356	12.34
66	.04063	46218	1878	45280	519818	11.25	66	.03727	48794	1819	47885	573701	11.76
67	.04437	44341	1967	43357	474538	10.70	67	.04069	46975	1911	46020	525816	11.19
68	.04833	42373	2048	41349	431181	10.18	68	.04433	45064	1998	44065	479797	10.65
69	.05258	40325	2120	39265	389832	9.67	69	.04824	43066	2077	42028	435731	10.12
70	.05728	38205	2188	37111	350567	9.18	70	.05255	40989	2154	39912	393704	9.61
71	.06241	36017	2248	34893	313456	8.70	71	.05730	38835	2225	37723	353792	9.11
72	.06779	33769	2289	32625	278563	8.25	72	.06240	36610	2284	35468	316069	8.63
73	.07339	31480	2310	30325	245938	7.81	73	.06786	34326	2329	33161	280601	8.17
74	.07934	29170	2314	28012	215614	7.39	74	.07376	31996	2360	30816	247441	7.73
75	.08558	26855	2298	25706	187601	6.99	75	.07997	29636	2370	28451	216624	7.31
76	.09246	24557	2271	23422	161895	6.59	76	.08675	27266	2365	26083	188173	6.90
77	.10049	22287	2240	21167	138473	6.21	77	.09447	24901	2352	23725	162090	6.51
78	.10989	20047	2203	18946	117306	5.85	78	.10329	22548	2329	21384	138365	6.14
79	.12035	17844	2147	16770	98361	5.51	79	.11298	20219	2284	19077	116981	5.79

Table 3c. Calendar Year 1920 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$
80	.13169	15697	2067	14663	81591	5.20	80	.12374	17935	2219	16826	97904	5.46
81	.14321	13630	1952	12654	66928	4.91	81	.13479	15716	2118	14657	81078	5.16
82	.15428	11678	1802	10777	54274	4.65	82	.14504	13598	1972	12611	66422	4.88
83	.16454	9876	1625	9064	43497	4.40	83	.15406	11625	1791	10730	53810	4.63
84	.17446	8251	1439	7531	34434	4.17	84	.16259	9834	1599	9035	43080	4.38
85	.18477	6812	1259	6182	26902	3.95	85	.17176	8235	1415	7528	34045	4.13
86	.19606	5553	1089	5009	20720	3.73	86	.18251	6821	1245	6198	26517	3.89
87	.20869	4464	932	3998	15711	3.52	87	.19540	5576	1090	5031	20319	3.64
88	.22270	3533	787	3139	11713	3.32	88	.21057	4486	945	4014	15288	3.41
89	.23793	2746	653	2419	8574	3.12	89	.22779	3542	807	3138	11274	3.18
90	.25413	2093	532	1827	6154	2.94	90	.24675	2735	675	2398	8136	2.97
91	.27101	1561	423	1349	4328	2.77	91	.26703	2060	550	1785	5738	2.79
92	.28830	1138	328	974	2978	2.62	92	.28824	1510	435	1292	3953	2.62
93	.30575	810	248	686	2005	2.48	93	.30575	1075	329	910	2661	2.48
94	.32315	562	182	471	1319	2.35	94	.32315	746	241	626	1750	2.35
95	.34044	381	130	316	847	2.23	95	.34044	505	172	419	1125	2.23
96	.35751	251	90	206	532	2.12	96	.35751	333	119	274	706	2.12
97	.37423	161	60	131	326	2.02	97	.37423	214	80	174	432	2.02
98	.39046	101	39	81	194	1.93	98	.39046	134	52	108	258	1.93
99	.40608	62	25	49	113	1.84	99	.40608	82	33	65	150	1.84
100	.42232	37	15	29	64	1.76	100	.42232	48	20	38	85	1.76
101	.43921	21	9	16	35	1.68	101	.43921	28	12	22	47	1.68
102	.45678	12	5	9	19	1.60	102	.45678	16	7	12	25	1.60
103	.47505	6	3	5	10	1.52	103	.47505	9	4	7	13	1.52
104	.49405	3	2	3	5	1.45	104	.49405	4	2	3	7	1.45
105	.51382	2	1	1	2	1.38	105	.51382	2	1	2	3	1.38
106	.53437	1	0	1	1	1.31	106	.53437	1	1	1	1	1.31
107	.55574	0	0	0	0	1.25	107	.55574	0	0	0	1	1.25
108	.57797	0	0	0	0	1.19	108	.57797	0	0	0	0	1.19
109	.60109	0	0	0	0	1.12	109	.60109	0	0	0	0	1.12
110	.62514	0	0	0	0	1.07	110	.62514	0	0	0	0	1.07
111	.65014	0	0	0	0	1.01	111	.65014	0	0	0	0	1.01
112	.67615	0	0	0	0	.95	112	.67615	0	0	0	0	.95
113	.70319	0	0	0	0	.90	113	.70319	0	0	0	0	.90
114	.73132	0	0	0	0	.85	114	.73132	0	0	0	0	.85
115	.76057	0	0	0	0	.80	115	.76057	0	0	0	0	.80
116	.79100	0	0	0	0	.75	116	.79100	0	0	0	0	.75
117	.82264	0	0	0	0	.71	117	.82264	0	0	0	0	.71
118	.85554	0	0	0	0	.66	118	.85554	0	0	0	0	.66
119	.88976	0	0	0	0	.62	119	.88976	0	0	0	0	.62

Table 3d. Calendar Year 1930 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$
0	.06401	100000	6401	94884	5801316	58.01	0	.05113	100000	5113	95985	6135552	61.36
1	.01093	93599	1023	93087	5706432	60.97	1	.00974	94887	924	94425	6039567	63.65
2	.00576	92576	533	92309	5613345	60.64	2	.00490	93963	461	93732	5945143	63.27
3	.00406	92042	374	91855	5521036	59.98	3	.00358	93502	334	93335	5851410	62.58
4	.00324	91669	297	91520	5429180	59.23	4	.00286	93168	267	93034	5758075	61.80
5	.00273	91371	250	91246	5337660	58.42	5	.00234	92901	217	92792	5665041	60.98
6	.00233	91122	212	91016	5246414	57.58	6	.00193	92684	179	92594	5572249	60.12
7	.00201	90910	183	90818	5155398	56.71	7	.00162	92505	149	92430	5479655	59.24
8	.00178	90727	161	90646	5064580	55.82	8	.00139	92356	128	92291	5387225	58.33
9	.00162	90565	147	90492	4973934	54.92	9	.00124	92227	114	92170	5294933	57.41
10	.00153	90418	139	90349	4883442	54.01	10	.00116	92113	107	92060	5202763	56.48
11	.00153	90280	138	90211	4793093	53.09	11	.00117	92006	108	91952	5110703	55.55
12	.00161	90142	145	90069	4702882	52.17	12	.00127	91898	117	91840	5018751	54.61
13	.00179	89997	161	89916	4612813	51.26	13	.00147	91781	135	91714	4926911	53.68
14	.00204	89836	183	89744	4522897	50.35	14	.00173	91647	159	91568	4835197	52.76
15	.00233	89653	209	89548	4433152	49.45	15	.00205	91488	187	91395	4743629	51.85
16	.00265	89444	237	89325	4343604	48.56	16	.00238	91301	217	91193	4652235	50.95
17	.00295	89207	263	89075	4254279	47.69	17	.00269	91084	245	90962	4561042	50.08
18	.00323	88944	287	88800	4165204	46.83	18	.00295	90840	268	90706	4470081	49.21
19	.00348	88657	308	88502	4076404	45.98	19	.00318	90572	288	90428	4379375	48.35
20	.00374	88348	330	88183	3987901	45.14	20	.00341	90284	308	90130	4288947	47.51
21	.00400	88018	352	87842	3899718	44.31	21	.00364	89976	327	89813	4198817	46.67
22	.00419	87666	368	87483	3811875	43.48	22	.00382	89649	343	89478	4109004	45.83
23	.00431	87299	376	87111	3724393	42.66	23	.00395	89306	353	89130	4019527	45.01
24	.00436	86923	379	86733	3637282	41.84	24	.00403	88953	358	88774	3930397	44.18
25	.00439	86544	380	86354	3550549	41.03	25	.00409	88595	362	88414	3841623	43.36
26	.00444	86164	382	85973	3464195	40.20	26	.00415	88233	366	88050	3753208	42.54
27	.00451	85782	387	85589	3378222	39.38	27	.00422	87867	371	87681	3665158	41.71
28	.00461	85395	394	85198	3292633	38.56	28	.00429	87496	375	87309	3577477	40.89
29	.00475	85001	404	84799	3207435	37.73	29	.00437	87121	380	86931	3490168	40.06
30	.00491	84597	415	84390	3122635	36.91	30	.00445	86741	386	86548	3403238	39.23
31	.00507	84182	427	83968	3038246	36.09	31	.00453	86355	391	86159	3316690	38.41
32	.00525	83755	439	83535	2954277	35.27	32	.00463	85964	398	85765	3230530	37.58
33	.00542	83315	452	83089	2870742	34.46	33	.00476	85565	407	85362	3144766	36.75
34	.00562	82864	466	82631	2787653	33.64	34	.00490	85158	418	84950	3059404	35.93
35	.00584	82398	481	82157	2705022	32.83	35	.00507	84741	429	84526	2974454	35.10
36	.00608	81917	498	81668	2622865	32.02	36	.00525	84311	442	84090	2889928	34.28
37	.00638	81419	519	81159	2541197	31.21	37	.00545	83869	458	83640	2805838	33.45
38	.00674	80899	545	80627	2460038	30.41	38	.00569	83412	475	83174	2722198	32.64
39	.00715	80354	575	80067	2379411	29.61	39	.00596	82937	494	82690	2639024	31.82

Table 3d. Calendar Year 1930 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
40	.00762	79779	608	79475	2299345	28.82	40	.00625	82443	516	82185	2556334	31.01
41	.00811	79171	642	78851	2219870	28.04	41	.00658	81927	539	81658	2474149	30.20
42	.00860	78530	675	78192	2141019	27.26	42	.00692	81389	563	81107	2392491	29.40
43	.00909	77854	708	77500	2062827	26.50	43	.00727	80826	587	80532	2311384	28.60
44	.00959	77147	740	76776	1985327	25.73	44	.00764	80238	613	79932	2230852	27.80
45	.01013	76406	774	76019	1908550	24.98	45	.00805	79625	641	79304	2150920	27.01
46	.01073	75632	812	75226	1832531	24.23	46	.00851	78984	672	78648	2071616	26.23
47	.01141	74821	854	74394	1757304	23.49	47	.00902	78312	706	77958	1992968	25.45
48	.01218	73967	901	73517	1682911	22.75	48	.00958	77605	743	77234	1915009	24.68
49	.01304	73066	953	72590	1609394	22.03	49	.01019	76862	784	76470	1837776	23.91
50	.01398	72114	1008	71609	1536804	21.31	50	.01088	76078	828	75664	1761305	23.15
51	.01499	71105	1066	70572	1465195	20.61	51	.01163	75250	875	74813	1685641	22.40
52	.01601	70039	1121	69479	1394623	19.91	52	.01242	74375	924	73913	1610828	21.66
53	.01703	68918	1174	68331	1325144	19.23	53	.01324	73451	973	72965	1536915	20.92
54	.01808	67744	1225	67132	1256813	18.55	54	.01412	72479	1023	71967	1463950	20.20
55	.01922	66519	1278	65880	1189682	17.88	55	.01508	71455	1078	70916	1391983	19.48
56	.02049	65241	1337	64572	1123801	17.23	56	.01616	70378	1137	69809	1321067	18.77
57	.02194	63904	1402	63203	1059229	16.58	57	.01737	69240	1202	68639	1251258	18.07
58	.02357	62502	1473	61766	996026	15.94	58	.01871	68038	1273	67401	1182619	17.38
59	.02539	61029	1549	60255	934260	15.31	59	.02020	66764	1349	66090	1115218	16.70
60	.02739	59480	1629	58665	874006	14.69	60	.02187	65416	1431	64700	1049128	16.04
61	.02956	57850	1710	56996	815340	14.09	61	.02369	63985	1516	63227	984428	15.39
62	.03183	56141	1787	55247	758345	13.51	62	.02561	62469	1600	61669	921201	14.75
63	.03419	54354	1859	53424	703098	12.94	63	.02759	60869	1680	60029	859532	14.12
64	.03670	52495	1927	51532	649674	12.38	64	.02971	59189	1759	58310	799503	13.51
65	.03945	50568	1995	49571	598142	11.83	65	.03205	57431	1841	56510	741193	12.91
66	.04250	48573	2064	47541	548571	11.29	66	.03469	55590	1928	54626	684683	12.32
67	.04580	46509	2130	45444	501030	10.77	67	.03762	53662	2019	52652	630057	11.74
68	.04937	44379	2191	43283	455586	10.27	68	.04089	51643	2111	50587	577405	11.18
69	.05326	42188	2247	41064	412302	9.77	69	.04450	49531	2204	48429	526818	10.64
70	.05751	39941	2297	38792	371238	9.29	70	.04848	47327	2295	46180	478389	10.11
71	.06217	37644	2340	36473	332446	8.83	71	.05284	45033	2380	43843	432209	9.60
72	.06724	35303	2374	34116	295973	8.38	72	.05758	42653	2456	41425	388366	9.11
73	.07276	32929	2396	31731	261856	7.95	73	.06271	40197	2521	38937	346941	8.63
74	.07875	30533	2405	29331	230125	7.54	74	.06827	37676	2572	36390	308004	8.18
75	.08509	28129	2393	26932	200794	7.14	75	.07416	35104	2603	33802	271615	7.74
76	.09191	25735	2365	24553	173862	6.76	76	.08052	32500	2617	31192	237813	7.32
77	.09949	23370	2325	22208	149309	6.39	77	.08764	29883	2619	28574	206621	6.91
78	.10794	21045	2272	19909	127101	6.04	78	.09563	27264	2607	25961	178047	6.53
79	.11710	18773	2198	17674	107192	5.71	79	.10431	24657	2572	23371	152086	6.17

Table 3d. Calendar Year 1930 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
80	.12717	16575	2108	15521	89518	5.40	80	.11411	22085	2520	20825	128715	5.83
81	.13755	14467	1990	13472	73997	5.11	81	.12424	19565	2431	18350	107889	5.51
82	.14736	12477	1839	11558	60525	4.85	82	.13342	17134	2286	15991	89540	5.23
83	.15622	10639	1662	9808	48967	4.60	83	.14114	14848	2096	13800	73548	4.95
84	.16476	8977	1479	8237	39159	4.36	84	.14830	12753	1891	11807	59748	4.69
85	.17388	7498	1304	6846	30922	4.12	85	.15621	10861	1697	10013	47941	4.41
86	.18436	6194	1142	5623	24076	3.89	86	.16599	9165	1521	8404	37928	4.14
87	.19664	5052	993	4555	18453	3.65	87	.17830	7643	1363	6962	29524	3.86
88	.21085	4059	856	3631	13898	3.42	88	.19335	6281	1214	5673	22562	3.59
89	.22683	3203	726	2840	10267	3.21	89	.21090	5066	1068	4532	16888	3.33
90	.24430	2476	605	2174	7428	3.00	90	.23059	3998	922	3537	12356	3.09
91	.26295	1871	492	1625	5254	2.81	91	.25196	3076	775	2688	8820	2.87
92	.28247	1379	390	1184	3628	2.63	92	.27458	2301	632	1985	6131	2.66
93	.30257	990	299	840	2444	2.47	93	.29805	1669	497	1420	4146	2.48
94	.32300	690	223	579	1604	2.32	94	.32200	1172	377	983	2726	2.33
95	.34304	467	160	387	1025	2.19	95	.34304	794	273	658	1743	2.19
96	.36242	307	111	251	638	2.08	96	.36242	522	189	427	1085	2.08
97	.38091	196	75	158	387	1.98	97	.38091	333	127	269	657	1.98
98	.39824	121	48	97	228	1.88	98	.39824	206	82	165	388	1.88
99	.41418	73	30	58	131	1.80	99	.41418	124	51	98	223	1.80
100	.43074	43	18	34	73	1.72	100	.43074	73	31	57	125	1.72
101	.44797	24	11	19	40	1.64	101	.44797	41	19	32	68	1.64
102	.46589	13	6	10	21	1.56	102	.46589	23	11	18	36	1.56
103	.48453	7	3	5	11	1.49	103	.48453	12	6	9	18	1.49
104	.50391	4	2	3	5	1.42	104	.50391	6	3	5	9	1.42
105	.52406	2	1	1	2	1.35	105	.52406	3	2	2	4	1.35
106	.54503	1	0	1	1	1.28	106	.54503	1	1	1	2	1.28
107	.56683	0	0	0	0	1.22	107	.56683	1	0	0	1	1.22
108	.58950	0	0	0	0	1.15	108	.58950	0	0	0	0	1.15
109	.61308	0	0	0	0	1.09	109	.61308	0	0	0	0	1.09
110	.63760	0	0	0	0	1.04	110	.63760	0	0	0	0	1.04
111	.66311	0	0	0	0	.98	111	.66311	0	0	0	0	.98
112	.68963	0	0	0	0	.93	112	.68963	0	0	0	0	.93
113	.71722	0	0	0	0	.87	113	.71722	0	0	0	0	.87
114	.74590	0	0	0	0	.82	114	.74590	0	0	0	0	.82
115	.77574	0	0	0	0	.78	115	.77574	0	0	0	0	.78
116	.80677	0	0	0	0	.73	116	.80677	0	0	0	0	.73
117	.83904	0	0	0	0	.68	117	.83904	0	0	0	0	.68
118	.87260	0	0	0	0	.64	118	.87260	0	0	0	0	.64
119	.90751	0	0	0	0	.60	119	.90751	0	0	0	0	.60

Table 3e. Calendar Year 1940 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
0	.06147	100000	6147	94850	6088769	60.89	0	.04772	100000	4772	96061	6533605	65.34
1	.00445	93853	417	93644	5993920	63.87	1	.00429	95228	409	95024	6437544	67.60
2	.00325	93435	303	93284	5900276	63.15	2	.00266	94819	252	94693	6342520	66.89
3	.00252	93132	235	93015	5806992	62.35	3	.00199	94568	188	94473	6247827	66.07
4	.00207	92897	192	92801	5713977	61.51	4	.00159	94379	150	94304	6153354	65.20
5	.00167	92705	155	92627	5621177	60.64	5	.00128	94229	121	94169	6059050	64.30
6	.00137	92550	127	92487	5528549	59.74	6	.00105	94109	99	94059	5964881	63.38
7	.00115	92423	107	92370	5436063	58.82	7	.00089	94009	83	93968	5870822	62.45
8	.00102	92317	94	92270	5343693	57.88	8	.00078	93926	73	93889	5776854	61.50
9	.00096	92223	89	92178	5251423	56.94	9	.00072	93853	68	93819	5682965	60.55
10	.00096	92134	89	92090	5159245	56.00	10	.00071	93785	66	93752	5589146	59.60
11	.00102	92045	94	91999	5067155	55.05	11	.00074	93719	69	93684	5495394	58.64
12	.00111	91952	102	91901	4975157	54.11	12	.00081	93649	76	93611	5401710	57.68
13	.00123	91850	113	91794	4883256	53.17	13	.00092	93573	86	93530	5308099	56.73
14	.00137	91737	125	91675	4791462	52.23	14	.00106	93487	99	93437	5214569	55.78
15	.00154	91612	141	91542	4699788	51.30	15	.00123	93388	115	93330	5121132	54.84
16	.00172	91471	158	91392	4608246	50.38	16	.00140	93273	131	93208	5027802	53.90
17	.00191	91314	174	91227	4516854	49.47	17	.00156	93142	145	93069	4934594	52.98
18	.00209	91139	190	91044	4425627	48.56	18	.00169	92997	157	92918	4841525	52.06
19	.00226	90949	206	90846	4334583	47.66	19	.00180	92840	167	92756	4748606	51.15
20	.00244	90743	222	90633	4243737	46.77	20	.00190	92673	177	92585	4655850	50.24
21	.00262	90522	237	90403	4153104	45.88	21	.00202	92496	187	92403	4563266	49.33
22	.00276	90284	249	90160	4062701	45.00	22	.00212	92309	196	92212	4470863	48.43
23	.00284	90035	256	89907	3972541	44.12	23	.00219	92114	202	92013	4378651	47.54
24	.00289	89779	259	89650	3882634	43.25	24	.00225	91912	207	91808	4286638	46.64
25	.00292	89520	261	89389	3792984	42.37	25	.00231	91705	212	91598	4194830	45.74
26	.00297	89259	265	89126	3703595	41.49	26	.00238	91492	217	91384	4103232	44.85
27	.00304	88994	270	88858	3614469	40.61	27	.00245	91275	224	91163	4011848	43.95
28	.00314	88723	278	88584	3525611	39.74	28	.00254	91051	232	90935	3920685	43.06
29	.00326	88445	288	88301	3437027	38.86	29	.00265	90820	241	90699	3829750	42.17
30	.00340	88157	299	88007	3348726	37.99	30	.00277	90579	251	90453	3739050	41.28
31	.00355	87857	312	87702	3260719	37.11	31	.00289	90328	261	90197	3648597	40.39
32	.00371	87546	325	87384	3173017	36.24	32	.00302	90067	272	89931	3558400	39.51
33	.00388	87221	338	87052	3085633	35.38	33	.00316	89795	283	89653	3468469	38.63
34	.00407	86883	353	86707	2998581	34.51	34	.00330	89511	295	89363	3378816	37.75
35	.00428	86530	370	86345	2911874	33.65	35	.00345	89216	308	89062	3289453	36.87
36	.00452	86160	390	85965	2825530	32.79	36	.00363	88908	322	88747	3200391	36.00
37	.00481	85770	412	85564	2739564	31.94	37	.00382	88585	339	88416	3111644	35.13
38	.00514	85358	439	85139	2654000	31.09	38	.00405	88247	358	88068	3023228	34.26
39	.00552	84919	469	84685	2568862	30.25	39	.00431	87889	379	87699	2935161	33.40

Table 3e. Calendar Year 1940 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$\frac{o}{e}(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\frac{o}{e}(x)$
40	.00595	84450	503	84199	2484177	29.42	40	.00460	87510	402	87309	2847461	32.54
41	.00642	83948	539	83678	2399978	28.59	41	.00490	87108	427	86894	2760152	31.69
42	.00691	83409	577	83120	2316300	27.77	42	.00522	86681	452	86455	2673258	30.84
43	.00744	82832	616	82524	2233180	26.96	43	.00553	86229	477	85990	2586804	30.00
44	.00799	82216	657	81888	2150655	26.16	44	.00586	85752	502	85501	2500813	29.16
45	.00860	81559	701	81208	2068768	25.37	45	.00621	85250	529	84985	2415313	28.33
46	.00927	80858	749	80483	1987560	24.58	46	.00661	84720	560	84440	2330328	27.51
47	.01002	80108	803	79707	1907077	23.81	47	.00706	84161	594	83863	2245887	26.69
48	.01087	79305	862	78874	1827370	23.04	48	.00759	83566	634	83249	2162024	25.87
49	.01180	78443	926	77981	1748496	22.29	49	.00817	82932	678	82594	2078774	25.07
50	.01281	77518	993	77021	1670515	21.55	50	.00882	82255	726	81892	1996181	24.27
51	.01388	76525	1062	75994	1593493	20.82	51	.00952	81529	776	81141	1914289	23.48
52	.01501	75463	1133	74896	1517500	20.11	52	.01024	80753	827	80339	1833148	22.70
53	.01619	74330	1203	73728	1442603	19.41	53	.01098	79926	877	79487	1752809	21.93
54	.01743	73126	1275	72489	1368875	18.72	54	.01175	79049	929	78584	1673321	21.17
55	.01878	71852	1350	71177	1296386	18.04	55	.01261	78120	985	77628	1594737	20.41
56	.02023	70502	1426	69789	1225209	17.38	56	.01357	77135	1047	76612	1517110	19.67
57	.02173	69076	1501	68325	1155420	16.73	57	.01460	76088	1111	75533	1440498	18.93
58	.02326	67575	1572	66789	1087095	16.09	58	.01571	74977	1178	74388	1364965	18.21
59	.02487	66003	1642	65182	1020306	15.46	59	.01692	73799	1249	73175	1290577	17.49
60	.02663	64361	1714	63504	955124	14.84	60	.01829	72550	1327	71887	1217402	16.78
61	.02858	62647	1790	61752	891620	14.23	61	.01983	71224	1413	70517	1145515	16.08
62	.03067	60857	1867	59924	829868	13.64	62	.02152	69811	1502	69060	1074998	15.40
63	.03293	58990	1943	58019	769944	13.05	63	.02336	68308	1595	67511	1005938	14.73
64	.03539	57048	2019	56038	711925	12.48	64	.02538	66713	1693	65866	938428	14.07
65	.03812	55028	2097	53980	655887	11.92	65	.02764	65020	1797	64121	872561	13.42
66	.04113	52931	2177	51843	601908	11.37	66	.03021	63222	1910	62268	808440	12.79
67	.04441	50754	2254	49627	550065	10.84	67	.03309	61313	2029	60298	746172	12.17
68	.04797	48500	2326	47337	500438	10.32	68	.03633	59284	2154	58207	685874	11.57
69	.05185	46174	2394	44977	453101	9.81	69	.03994	57130	2282	55989	627667	10.99
70	.05611	43780	2457	42551	408124	9.32	70	.04395	54848	2411	53643	571678	10.42
71	.06081	41323	2513	40066	365573	8.85	71	.04835	52438	2535	51170	518035	9.88
72	.06599	38810	2561	37529	325507	8.39	72	.05311	49902	2650	48577	466865	9.36
73	.07167	36249	2598	34950	287977	7.94	73	.05822	47252	2751	45877	418287	8.85
74	.07788	33651	2621	32341	253027	7.52	74	.06374	44501	2836	43083	372411	8.37
75	.08449	31030	2622	29719	220686	7.11	75	.06966	41665	2903	40214	329327	7.90
76	.09161	28408	2603	27107	190967	6.72	76	.07613	38762	2951	37287	289114	7.46
77	.09945	25806	2566	24523	163860	6.35	77	.08331	35811	2984	34320	251827	7.03
78	.10808	23240	2512	21984	139337	6.00	78	.09129	32828	2997	31329	217507	6.63
79	.11738	20728	2433	19511	117353	5.66	79	.09998	29831	2982	28340	186178	6.24

Table 3e. Calendar Year 1940 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
80	.12749	18295	2332	17129	97842	5.35	80	.10960	26848	2943	25377	157839	5.88
81	.13799	15962	2203	14861	80714	5.06	81	.11970	23906	2861	22475	132461	5.54
82	.14824	13760	2040	12740	65853	4.79	82	.12954	21044	2726	19681	109986	5.23
83	.15801	11720	1852	10794	53113	4.53	83	.13885	18318	2544	17046	90305	4.93
84	.16772	9868	1655	9040	42319	4.29	84	.14816	15775	2337	14606	73258	4.64
85	.17798	8213	1462	7482	33278	4.05	85	.15821	13438	2126	12375	58652	4.36
86	.18932	6751	1278	6112	25796	3.82	86	.16964	11312	1919	10352	46278	4.09
87	.20203	5473	1106	4920	19684	3.60	87	.18284	9393	1717	8534	35926	3.82
88	.21619	4367	944	3895	14764	3.38	88	.19791	7675	1519	6916	27392	3.57
89	.23168	3423	793	3027	10869	3.18	89	.21471	6156	1322	5495	20476	3.33
90	.24830	2630	653	2304	7842	2.98	90	.23301	4834	1126	4271	14980	3.10
91	.26585	1977	526	1714	5538	2.80	91	.25257	3708	937	3240	10709	2.89
92	.28409	1451	412	1245	3824	2.63	92	.27311	2771	757	2393	7469	2.70
93	.30282	1039	315	882	2579	2.48	93	.29439	2015	593	1718	5076	2.52
94	.32187	724	233	608	1697	2.34	94	.31620	1421	449	1197	3358	2.36
95	.34064	491	167	408	1089	2.22	95	.33810	972	329	808	2162	2.22
96	.35894	324	116	266	682	2.10	96	.35894	643	231	528	1354	2.10
97	.37659	208	78	169	416	2.00	97	.37659	412	155	335	826	2.00
98	.39338	129	51	104	247	1.91	98	.39338	257	101	207	491	1.91
99	.40911	79	32	62	143	1.83	99	.40911	156	64	124	285	1.83
100	.42547	46	20	37	81	1.74	100	.42547	92	39	73	161	1.74
101	.44249	27	12	21	44	1.66	101	.44249	53	23	41	88	1.66
102	.46019	15	7	11	24	1.59	102	.46019	30	14	23	47	1.59
103	.47860	8	4	6	12	1.51	103	.47860	16	8	12	24	1.51
104	.49774	4	2	3	6	1.44	104	.49774	8	4	6	12	1.44
105	.51765	2	1	2	3	1.37	105	.51765	4	2	3	6	1.37
106	.53836	1	1	1	1	1.30	106	.53836	2	1	1	3	1.30
107	.55990	0	0	0	1	1.24	107	.55990	1	1	1	1	1.24
108	.58229	0	0	0	0	1.17	108	.58229	0	0	0	0	1.17
109	.60558	0	0	0	0	1.11	109	.60558	0	0	0	0	1.11
110	.62980	0	0	0	0	1.05	110	.62980	0	0	0	0	1.05
111	.65500	0	0	0	0	1.00	111	.65500	0	0	0	0	1.00
112	.68120	0	0	0	0	.94	112	.68120	0	0	0	0	.94
113	.70844	0	0	0	0	.89	113	.70844	0	0	0	0	.89
114	.73678	0	0	0	0	.84	114	.73678	0	0	0	0	.84
115	.76625	0	0	0	0	.79	115	.76625	0	0	0	0	.79
116	.79691	0	0	0	0	.74	116	.79691	0	0	0	0	.74
117	.82878	0	0	0	0	.70	117	.82878	0	0	0	0	.70
118	.86193	0	0	0	0	.65	118	.86193	0	0	0	0	.65
119	.89641	0	0	0	0	.61	119	.89641	0	0	0	0	.61

Table 3f. Calendar Year 1950 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
0	.03713	100000	3713	96726	6533242	65.33	0	.02858	100000	2858	97522	7090419	70.90
1	.00215	96287	207	96184	6436516	66.85	1	.00202	97142	196	97043	6992897	71.99
2	.00157	96081	150	96005	6340332	65.99	2	.00125	96945	121	96885	6895853	71.13
3	.00122	95930	117	95872	6244327	65.09	3	.00094	96824	91	96779	6798968	70.22
4	.00100	95813	96	95766	6148455	64.17	4	.00075	96733	72	96697	6702190	69.29
5	.00086	95718	82	95677	6052689	63.23	5	.00064	96661	62	96630	6605492	68.34
6	.00075	95636	72	95600	5957013	62.29	6	.00056	96599	54	96572	6508862	67.38
7	.00068	95564	65	95532	5861413	61.33	7	.00050	96545	48	96521	6412290	66.42
8	.00062	95499	59	95470	5765881	60.38	8	.00045	96497	44	96475	6315769	65.45
9	.00059	95440	56	95412	5670411	59.41	9	.00042	96453	40	96433	6219295	64.48
10	.00057	95384	55	95357	5574999	58.45	10	.00040	96413	39	96393	6122862	63.51
11	.00060	95329	57	95301	5479643	57.48	11	.00040	96374	39	96355	6026468	62.53
12	.00066	95273	63	95241	5384342	56.52	12	.00043	96336	41	96315	5930113	61.56
13	.00078	95209	74	95172	5289101	55.55	13	.00048	96295	46	96272	5833798	60.58
14	.00093	95135	89	95091	5193928	54.60	14	.00055	96249	52	96222	5737527	59.61
15	.00111	95046	105	94994	5098838	53.65	15	.00063	96196	60	96166	5641304	58.64
16	.00128	94941	121	94880	5003844	52.70	16	.00071	96136	69	96102	5545138	57.68
17	.00144	94820	136	94752	4908964	51.77	17	.00079	96067	76	96030	5449037	56.72
18	.00157	94683	149	94609	4814212	50.85	18	.00084	95992	81	95951	5353007	55.77
19	.00168	94535	159	94455	4719603	49.92	19	.00088	95911	84	95869	5257056	54.81
20	.00180	94375	170	94290	4625148	49.01	20	.00092	95827	88	95783	5161187	53.86
21	.00192	94205	180	94115	4530858	48.10	21	.00097	95739	92	95692	5065404	52.91
22	.00199	94025	187	93932	4436743	47.19	22	.00101	95646	97	95598	4969712	51.96
23	.00200	93838	188	93744	4342811	46.28	23	.00105	95550	100	95499	4874114	51.01
24	.00199	93650	186	93557	4249067	45.37	24	.00109	95449	104	95397	4778615	50.06
25	.00196	93464	183	93373	4155510	44.46	25	.00113	95345	108	95292	4683218	49.12
26	.00194	93281	181	93191	4062137	43.55	26	.00118	95238	112	95182	4587926	48.17
27	.00194	93100	181	93010	3968947	42.63	27	.00123	95126	117	95067	4492744	47.23
28	.00198	92919	184	92827	3875937	41.71	28	.00129	95009	122	94948	4397677	46.29
29	.00205	92735	190	92640	3783110	40.79	29	.00136	94887	129	94822	4302729	45.35
30	.00213	92545	197	92446	3690470	39.88	30	.00143	94758	136	94690	4207907	44.41
31	.00223	92348	206	92245	3598024	38.96	31	.00152	94622	144	94551	4113217	43.47
32	.00234	92142	216	92034	3505779	38.05	32	.00162	94479	153	94403	4018666	42.54
33	.00248	91926	228	91812	3413745	37.14	33	.00173	94326	163	94245	3924264	41.60
34	.00264	91698	242	91577	3321933	36.23	34	.00185	94163	174	94076	3830019	40.67
35	.00282	91456	258	91327	3230356	35.32	35	.00199	93989	187	93896	3735943	39.75
36	.00304	91198	277	91059	3139028	34.42	36	.00215	93802	201	93702	3642047	38.83
37	.00330	90921	300	90771	3047969	33.52	37	.00232	93601	217	93492	3548345	37.91
38	.00361	90621	327	90457	2957198	32.63	38	.00252	93384	235	93266	3454853	37.00
39	.00396	90294	358	90115	2866741	31.75	39	.00273	93149	255	93021	3361587	36.09

Table 3f. Calendar Year 1950 United States Life Tables, by Sex

							Male						Female					
x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$					
40	.00436	89936	392	89740	2776627	30.87	40	.00297	92894	276	92756	3268565	35.19					
41	.00479	89544	429	89330	2686886	30.01	41	.00323	92618	299	92468	3175809	34.29					
42	.00527	89115	469	88880	2597557	29.15	42	.00351	92318	324	92157	3083341	33.40					
43	.00578	88646	512	88390	2508677	28.30	43	.00380	91995	349	91820	2991185	32.51					
44	.00633	88134	557	87855	2420287	27.46	44	.00411	91645	376	91457	2899365	31.64					
45	.00692	87576	606	87273	2332432	26.63	45	.00444	91269	405	91066	2807908	30.77					
46	.00759	86970	660	86640	2245159	25.82	46	.00480	90864	437	90645	2716841	29.90					
47	.00831	86310	718	85951	2158520	25.01	47	.00520	90427	470	90192	2626196	29.04					
48	.00912	85592	780	85202	2072569	24.21	48	.00561	89957	505	89705	2536004	28.19					
49	.00999	84812	847	84388	1987367	23.43	49	.00606	89452	542	89181	2446299	27.35					
50	.01094	83965	918	83506	1902978	22.66	50	.00656	88910	584	88618	2357118	26.51					
51	.01195	83046	992	82550	1819473	21.91	51	.00711	88326	628	88012	2268500	25.68					
52	.01303	82054	1069	81519	1736923	21.17	52	.00767	87699	673	87362	2180488	24.86					
53	.01418	80984	1149	80410	1655403	20.44	53	.00825	87026	718	86667	2093126	24.05					
54	.01541	79836	1230	79221	1574993	19.73	54	.00886	86308	764	85926	2006458	23.25					
55	.01671	78605	1314	77949	1495773	19.03	55	.00952	85544	814	85137	1920532	22.45					
56	.01811	77292	1400	76592	1417824	18.34	56	.01026	84730	869	84295	1835396	21.66					
57	.01961	75892	1488	75148	1341233	17.67	57	.01113	83860	933	83394	1751100	20.88					
58	.02120	74404	1578	73615	1266085	17.02	58	.01215	82927	1007	82424	1667707	20.11					
59	.02290	72826	1668	71992	1192470	16.37	59	.01329	81920	1089	81376	1585283	19.35					
60	.02476	71158	1762	70278	1120478	15.75	60	.01462	80831	1182	80240	1503907	18.61					
61	.02673	69397	1855	68469	1050200	15.13	61	.01605	79649	1278	79010	1423667	17.87					
62	.02871	67542	1939	66572	981731	14.54	62	.01741	78371	1365	77689	1344657	17.16					
63	.03068	65602	2012	64596	915159	13.95	63	.01866	77006	1437	76288	1266969	16.45					
64	.03269	63590	2079	62551	850563	13.38	64	.01991	75569	1504	74817	1190681	15.76					
65	.03487	61511	2145	60439	788012	12.81	65	.02128	74065	1576	73276	1115865	15.07					
66	.03732	59366	2216	58259	727573	12.26	66	.02299	72488	1666	71655	1042588	14.38					
67	.04008	57151	2291	56005	669315	11.71	67	.02512	70822	1779	69932	970933	13.71					
68	.04320	54860	2370	53675	613309	11.18	68	.02780	69043	1920	68083	901001	13.05					
69	.04667	52490	2450	51265	559634	10.66	69	.03097	67123	2079	66084	832918	12.41					
70	.05046	50041	2525	48778	508368	10.16	70	.03449	65044	2243	63923	766835	11.79					
71	.05456	47515	2592	46219	459591	9.67	71	.03828	62801	2404	61599	702912	11.19					
72	.05899	44923	2650	43598	413371	9.20	72	.04239	60397	2560	59117	641313	10.62					
73	.06378	42273	2696	40925	369773	8.75	73	.04681	57836	2707	56483	582197	10.07					
74	.06893	39577	2728	38213	328849	8.31	74	.05156	55129	2842	53708	525714	9.54					
75	.07458	36849	2748	35475	290636	7.89	75	.05681	52287	2970	50801	472006	9.03					
76	.08066	34101	2750	32725	255161	7.48	76	.06249	49316	3082	47775	421205	8.54					
77	.08698	31350	2727	29987	222436	7.10	77	.06836	46235	3160	44654	373429	8.08					
78	.09349	28623	2676	27285	192449	6.72	78	.07435	43074	3203	41473	328775	7.63					
79	.10034	25947	2604	24646	165163	6.37	79	.08064	39871	3215	38264	287302	7.21					

Table 3f. Calendar Year 1950 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$o_e(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$o_e(x)$
80	.10761	23344	2512	22088	140518	6.02	80	.08744	36656	3205	35054	249038	6.79
81	.11558	20832	2408	19628	118430	5.69	81	.09497	33451	3177	31863	213984	6.40
82	.12452	18424	2294	17277	98802	5.36	82	.10332	30274	3128	28710	182122	6.02
83	.13456	16130	2170	15045	81525	5.05	83	.11260	27146	3057	25618	153411	5.65
84	.14555	13959	2032	12944	66480	4.76	84	.12277	24090	2958	22611	127793	5.30
85	.15723	11928	1875	10990	53537	4.49	85	.13375	21132	2826	19719	105182	4.98
86	.16939	10052	1703	9201	42547	4.23	86	.14546	18306	2663	16974	85463	4.67
87	.18189	8350	1519	7590	33346	3.99	87	.15787	15643	2470	14408	68489	4.38
88	.19472	6831	1330	6166	25756	3.77	88	.17100	13173	2253	12047	54080	4.11
89	.20793	5501	1144	4929	19590	3.56	89	.18488	10921	2019	9911	42033	3.85
90	.22159	4357	965	3874	14661	3.37	90	.19956	8902	1776	8014	32122	3.61
91	.23579	3391	800	2992	10787	3.18	91	.21508	7125	1533	6359	24109	3.38
92	.25062	2592	650	2267	7795	3.01	92	.23148	5593	1295	4945	17749	3.17
93	.26613	1942	517	1684	5528	2.85	93	.24879	4298	1069	3764	12804	2.98
94	.28239	1425	403	1224	3845	2.70	94	.26701	3229	862	2798	9040	2.80
95	.29845	1023	305	870	2620	2.56	95	.28533	2367	675	2029	6243	2.64
96	.31417	718	225	605	1750	2.44	96	.30357	1691	513	1435	4214	2.49
97	.32939	492	162	411	1145	2.33	97	.32158	1178	379	989	2779	2.36
98	.34395	330	114	273	734	2.23	98	.33915	799	271	664	1790	2.24
99	.35771	217	77	178	461	2.13	99	.35611	528	188	434	1127	2.13
100	.37202	139	52	113	283	2.04	100	.37202	340	127	277	693	2.04
101	.38690	87	34	70	170	1.95	101	.38690	214	83	172	416	1.95
102	.40237	54	22	43	100	1.86	102	.40237	131	53	105	244	1.86
103	.41847	32	13	25	57	1.78	103	.41847	78	33	62	139	1.78
104	.43521	19	8	15	32	1.70	104	.43521	46	20	36	77	1.70
105	.45261	11	5	8	17	1.62	105	.45261	26	12	20	42	1.62
106	.47072	6	3	4	9	1.54	106	.47072	14	7	11	22	1.54
107	.48955	3	1	2	4	1.47	107	.48955	7	4	6	11	1.47
108	.50913	2	1	1	2	1.40	108	.50913	4	2	3	5	1.40
109	.52949	1	0	1	1	1.33	109	.52949	2	1	1	2	1.33
110	.55067	0	0	0	0	1.26	110	.55067	1	0	1	1	1.26
111	.57270	0	0	0	0	1.20	111	.57270	0	0	0	0	1.20
112	.59561	0	0	0	0	1.14	112	.59561	0	0	0	0	1.14
113	.61943	0	0	0	0	1.08	113	.61943	0	0	0	0	1.08
114	.64421	0	0	0	0	1.02	114	.64421	0	0	0	0	1.02
115	.66998	0	0	0	0	.97	115	.66998	0	0	0	0	.97
116	.69678	0	0	0	0	.91	116	.69678	0	0	0	0	.91
117	.72465	0	0	0	0	.86	117	.72465	0	0	0	0	.86
118	.75363	0	0	0	0	.81	118	.75363	0	0	0	0	.81
119	.78378	0	0	0	0	.76	119	.78378	0	0	0	0	.76

Table 3g. Calendar Year 1960 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$
0	.03059	100000	3059	97265	6657861	66.58	0	.02332	100000	2332	97935	7319459	73.19
1	.00171	96941	165	96858	6560597	67.68	1	.00158	97668	155	97591	7221524	73.94
2	.00125	96775	121	96715	6463739	66.79	2	.00098	97514	96	97466	7123933	73.06
3	.00097	96655	93	96608	6367024	65.87	3	.00074	97418	72	97382	7026467	72.13
4	.00079	96561	77	96523	6270416	64.94	4	.00059	97347	57	97318	6929085	71.18
5	.00068	96485	66	96452	6173893	63.99	5	.00051	97290	50	97265	6831767	70.22
6	.00061	96419	59	96389	6077442	63.03	6	.00045	97240	44	97218	6734502	69.26
7	.00055	96360	53	96334	5981053	62.07	7	.00040	97196	39	97177	6637284	68.29
8	.00049	96307	48	96284	5884719	61.10	8	.00036	97157	35	97140	6540107	67.31
9	.00045	96260	44	96238	5788435	60.13	9	.00033	97122	32	97106	6442968	66.34
10	.00043	96216	41	96196	5692197	59.16	10	.00031	97090	30	97075	6345862	65.36
11	.00044	96175	42	96154	5596002	58.19	11	.00030	97060	29	97046	6248787	64.38
12	.00050	96133	48	96110	5499848	57.21	12	.00031	97032	30	97017	6151741	63.40
13	.00062	96086	60	96056	5403738	56.24	13	.00034	97002	33	96986	6054724	62.42
14	.00079	96026	76	95988	5307682	55.27	14	.00038	96969	37	96951	5957738	61.44
15	.00098	95950	94	95903	5211694	54.32	15	.00044	96932	43	96911	5860787	60.46
16	.00117	95856	112	95800	5115792	53.37	16	.00050	96889	49	96865	5763877	59.49
17	.00133	95744	128	95680	5019992	52.43	17	.00055	96841	53	96814	5667012	58.52
18	.00146	95616	140	95546	4924312	51.50	18	.00059	96787	57	96759	5570198	57.55
19	.00157	95476	150	95401	4828766	50.58	19	.00061	96731	59	96701	5473439	56.58
20	.00167	95326	159	95247	4733364	49.65	20	.00063	96672	61	96641	5376737	55.62
21	.00178	95167	169	95082	4638118	48.74	21	.00066	96610	64	96578	5280096	54.65
22	.00184	94998	174	94911	4543035	47.82	22	.00070	96546	67	96513	5183518	53.69
23	.00184	94824	175	94736	4448124	46.91	23	.00073	96479	70	96444	5087005	52.73
24	.00181	94649	171	94563	4353388	46.00	24	.00076	96409	74	96372	4990561	51.76
25	.00177	94478	167	94394	4258825	45.08	25	.00080	96335	77	96297	4894189	50.80
26	.00174	94311	164	94229	4164431	44.16	26	.00084	96258	81	96218	4797893	49.84
27	.00172	94147	162	94066	4070202	43.23	27	.00089	96177	86	96134	4701675	48.89
28	.00173	93985	163	93903	3976136	42.31	28	.00094	96092	90	96046	4605541	47.93
29	.00177	93822	166	93739	3882232	41.38	29	.00100	96001	96	95953	4509494	46.97
30	.00182	93656	171	93570	3788494	40.45	30	.00106	95906	102	95855	4413541	46.02
31	.00189	93485	177	93396	3694924	39.52	31	.00113	95804	109	95749	4317686	45.07
32	.00198	93308	185	93216	3601527	38.60	32	.00122	95695	116	95637	4221937	44.12
33	.00210	93123	195	93025	3508312	37.67	33	.00131	95579	125	95516	4126301	43.17
34	.00225	92928	209	92823	3415286	36.75	34	.00141	95454	134	95387	4030784	42.23
35	.00242	92719	225	92607	3322463	35.83	35	.00151	95320	144	95247	3935398	41.29
36	.00263	92494	243	92372	3229857	34.92	36	.00164	95175	156	95097	3840150	40.35
37	.00287	92251	264	92119	3137484	34.01	37	.00178	95019	170	94934	3745053	39.41
38	.00313	91986	288	91843	3045366	33.11	38	.00195	94850	185	94757	3650119	38.48
39	.00342	91699	313	91542	2953523	32.21	39	.00214	94665	203	94563	3555362	37.56

Table 3g. Calendar Year 1960 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$
40	.00375	91385	343	91214	2861981	31.32	40	.00235	94462	222	94351	3460799	36.64
41	.00414	91042	377	90854	2770767	30.43	41	.00257	94240	242	94119	3366447	35.72
42	.00456	90666	414	90459	2679913	29.56	42	.00281	93998	264	93866	3272329	34.81
43	.00504	90252	455	90025	2589454	28.69	43	.00305	93734	286	93591	3178463	33.91
44	.00557	89797	500	89547	2499430	27.83	44	.00330	93448	309	93294	3084871	33.01
45	.00614	89297	548	89023	2409882	26.99	45	.00358	93140	333	92973	2991577	32.12
46	.00677	88749	601	88449	2320859	26.15	46	.00388	92807	360	92627	2898604	31.23
47	.00750	88148	661	87817	2232411	25.33	47	.00421	92447	389	92252	2805978	30.35
48	.00835	87487	730	87121	2144593	24.51	48	.00458	92057	421	91847	2713726	29.48
49	.00928	86756	805	86354	2057472	23.72	49	.00498	91636	456	91408	2621879	28.61
50	.01033	85951	888	85507	1971118	22.93	50	.00543	91180	495	90932	2530471	27.75
51	.01142	85063	972	84578	1885611	22.17	51	.00592	90684	537	90416	2439539	26.90
52	.01249	84092	1050	83567	1801034	21.42	52	.00640	90147	577	89859	2349123	26.06
53	.01349	83042	1121	82481	1717467	20.68	53	.00686	89570	614	89263	2259264	25.22
54	.01449	81921	1187	81328	1634985	19.96	54	.00732	88956	651	88631	2170001	24.39
55	.01553	80734	1254	80107	1553658	19.24	55	.00782	88305	690	87960	2081371	23.57
56	.01672	79480	1329	78815	1473551	18.54	56	.00840	87615	736	87247	1993411	22.75
57	.01814	78151	1418	77442	1394735	17.85	57	.00914	86879	794	86482	1906164	21.94
58	.01985	76733	1523	75971	1317293	17.17	58	.01006	86085	866	85652	1819682	21.14
59	.02180	75210	1639	74390	1241322	16.50	59	.01114	85219	949	84744	1734031	20.35
60	.02392	73570	1760	72690	1166932	15.86	60	.01237	84269	1042	83748	1649287	19.57
61	.02613	71810	1876	70872	1094242	15.24	61	.01367	83227	1138	82658	1565539	18.81
62	.02835	69934	1982	68943	1023370	14.63	62	.01495	82089	1227	81476	1482880	18.06
63	.03054	67952	2075	66914	954427	14.05	63	.01614	80862	1305	80210	1401405	17.33
64	.03276	65877	2158	64797	887513	13.47	64	.01734	79557	1379	78867	1321195	16.61
65	.03515	63718	2240	62598	822715	12.91	65	.01869	78178	1461	77447	1242328	15.89
66	.03776	61478	2321	60318	760117	12.36	66	.02030	76716	1557	75938	1164881	15.18
67	.04053	59157	2398	57958	699799	11.83	67	.02213	75159	1663	74328	1088943	14.49
68	.04349	56759	2468	55525	641841	11.31	68	.02423	73496	1781	72606	1014615	13.81
69	.04666	54291	2533	53024	586316	10.80	69	.02662	71715	1909	70761	942009	13.14
70	.05019	51758	2598	50459	533291	10.30	70	.02941	69806	2053	68780	871249	12.48
71	.05403	49160	2656	47832	482832	9.82	71	.03254	67753	2205	66651	802469	11.84
72	.05801	46504	2698	45155	435000	9.35	72	.03591	65549	2354	64372	735818	11.23
73	.06207	43806	2719	42447	389845	8.90	73	.03949	63195	2495	61947	671446	10.62
74	.06638	41087	2727	39723	347398	8.46	74	.04340	60700	2635	59382	609499	10.04
75	.07091	38360	2720	37000	307675	8.02	75	.04766	58065	2768	56681	550117	9.47
76	.07606	35639	2711	34284	270675	7.59	76	.05257	55298	2907	53844	493435	8.92
77	.08234	32929	2711	31573	236391	7.18	77	.05849	52391	3065	50859	439591	8.39
78	.09000	30218	2720	28858	204818	6.78	78	.06564	49326	3238	47708	388732	7.88
79	.09874	27498	2715	26140	175960	6.40	79	.07378	46089	3401	44389	341024	7.40

Table 3g. Calendar Year 1960 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	o e(x)
80	.10835	24783	2685	23440	149820	6.05	80	.08277	42688	3534	40922	296636	6.95
81	.11815	22097	2611	20792	126380	5.72	81	.09214	39155	3608	37351	255714	6.53
82	.12756	19487	2486	18244	105588	5.42	82	.10151	35547	3608	33743	218363	6.14
83	.13624	17001	2316	15843	87345	5.14	83	.11062	31939	3533	30172	184621	5.78
84	.14464	14685	2124	13623	71502	4.87	84	.11981	28405	3403	26704	154449	5.44
85	.15344	12561	1927	11597	57879	4.61	85	.12954	25002	3239	23383	127745	5.11
86	.16323	10633	1736	9765	46283	4.35	86	.14020	21764	3051	20238	104362	4.80
87	.17434	8898	1551	8122	36517	4.10	87	.15201	18712	2845	17290	84124	4.50
88	.18684	7346	1373	6660	28395	3.87	88	.16503	15868	2619	14558	66834	4.21
89	.20056	5974	1198	5375	21735	3.64	89	.17914	13249	2373	12062	52275	3.95
90	.21529	4776	1028	4262	16360	3.43	90	.19417	10876	2112	9820	40213	3.70
91	.23075	3748	865	3315	12099	3.23	91	.20994	8764	1840	7844	30393	3.47
92	.24668	2883	711	2527	8784	3.05	92	.22625	6924	1567	6141	22549	3.26
93	.26285	2172	571	1886	6256	2.88	93	.24294	5357	1302	4707	16408	3.06
94	.27903	1601	447	1377	4370	2.73	94	.25984	4056	1054	3529	11702	2.89
95	.29501	1154	340	984	2993	2.59	95	.27691	3002	831	2586	8173	2.72
96	.31063	814	253	687	2009	2.47	96	.29400	2171	638	1852	5586	2.57
97	.32573	561	183	470	1321	2.36	97	.31101	1533	477	1294	3735	2.44
98	.34017	378	129	314	852	2.25	98	.32778	1056	346	883	2441	2.31
99	.35378	250	88	205	538	2.16	99	.34417	710	244	588	1558	2.19
100	.36793	161	59	132	333	2.06	100	.36137	466	168	381	970	2.08
101	.38264	102	39	82	201	1.97	101	.37944	297	113	241	589	1.98
102	.39795	63	25	50	119	1.88	102	.39795	184	73	148	348	1.88
103	.41387	38	16	30	68	1.80	103	.41387	111	46	88	200	1.80
104	.43042	22	10	17	38	1.72	104	.43042	65	28	51	112	1.72
105	.44764	13	6	10	21	1.64	105	.44764	37	17	29	61	1.64
106	.46555	7	3	5	11	1.56	106	.46555	20	10	16	32	1.56
107	.48417	4	2	3	6	1.49	107	.48417	11	5	8	16	1.49
108	.50354	2	1	1	3	1.42	108	.50354	6	3	4	8	1.42
109	.52368	1	1	1	1	1.35	109	.52368	3	1	2	4	1.35
110	.54462	0	0	0	1	1.28	110	.54462	1	1	1	2	1.28
111	.56641	0	0	0	0	1.22	111	.56641	1	0	0	1	1.22
112	.58906	0	0	0	0	1.16	112	.58906	0	0	0	0	1.16
113	.61263	0	0	0	0	1.10	113	.61263	0	0	0	0	1.10
114	.63713	0	0	0	0	1.04	114	.63713	0	0	0	0	1.04
115	.66262	0	0	0	0	.98	115	.66262	0	0	0	0	.98
116	.68912	0	0	0	0	.93	116	.68912	0	0	0	0	.93
117	.71669	0	0	0	0	.88	117	.71669	0	0	0	0	.88
118	.74535	0	0	0	0	.83	118	.74535	0	0	0	0	.83
119	.77517	0	0	0	0	.78	119	.77517	0	0	0	0	.78

Table 3h. Calendar Year 1970 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
0	.02381	100000	2381	97837	6705216	67.05	0	.01853	100000	1853	98328	7479655	74.80
1	.00133	97619	130	97554	6607380	67.69	1	.00122	98147	120	98087	7381327	75.21
2	.00098	97489	95	97441	6509826	66.78	2	.00075	98028	74	97991	7283239	74.30
3	.00076	97394	74	97357	6412385	65.84	3	.00057	97954	55	97926	7185249	73.35
4	.00062	97320	60	97290	6315028	64.89	4	.00045	97898	44	97876	7087323	72.39
5	.00057	97259	56	97231	6217739	63.93	5	.00041	97854	40	97834	6989446	71.43
6	.00054	97204	53	97177	6120507	62.97	6	.00037	97815	37	97796	6891612	70.46
7	.00051	97151	50	97126	6023330	62.00	7	.00034	97778	34	97761	6793816	69.48
8	.00047	97101	45	97079	5926204	61.03	8	.00031	97744	31	97729	6696055	68.51
9	.00041	97056	39	97036	5829126	60.06	9	.00028	97714	28	97700	6598326	67.53
10	.00036	97017	35	96999	5732090	59.08	10	.00026	97686	25	97674	6500626	66.55
11	.00035	96982	34	96965	5635090	58.10	11	.00024	97661	24	97649	6402953	65.56
12	.00042	96948	41	96928	5538125	57.12	12	.00026	97637	26	97624	6305304	64.58
13	.00060	96908	58	96879	5441197	56.15	13	.00032	97612	31	97596	6207679	63.60
14	.00085	96850	82	96809	5344318	55.18	14	.00039	97581	38	97561	6110083	62.62
15	.00113	96768	109	96713	5247510	54.23	15	.00049	97542	47	97519	6012522	61.64
16	.00139	96658	134	96591	5150797	53.29	16	.00057	97495	56	97467	5915003	60.67
17	.00162	96524	156	96446	5054205	52.36	17	.00064	97439	62	97408	5817536	59.70
18	.00181	96368	174	96281	4957759	51.45	18	.00068	97377	66	97344	5720128	58.74
19	.00195	96194	187	96100	4861479	50.54	19	.00069	97311	67	97277	5622785	57.78
20	.00209	96007	201	95906	4765378	49.64	20	.00071	97243	69	97209	5525507	56.82
21	.00223	95806	214	95699	4669472	48.74	21	.00073	97175	71	97139	5428298	55.86
22	.00230	95592	220	95482	4573774	47.85	22	.00075	97104	73	97068	5331159	54.90
23	.00228	95372	218	95263	4478292	46.96	23	.00076	97031	74	96994	5234091	53.94
24	.00220	95154	209	95050	4383029	46.06	24	.00078	96957	76	96919	5137097	52.98
25	.00209	94945	199	94846	4287980	45.16	25	.00081	96881	78	96842	5040178	52.02
26	.00200	94746	190	94651	4193134	44.26	26	.00083	96803	81	96763	4943336	51.07
27	.00195	94556	185	94464	4098483	43.34	27	.00087	96722	84	96681	4846573	50.11
28	.00196	94371	185	94279	4004019	42.43	28	.00090	96639	87	96595	4749892	49.15
29	.00202	94186	190	94091	3909740	41.51	29	.00095	96551	92	96505	4653297	48.20
30	.00209	93996	197	93898	3815649	40.59	30	.00101	96460	97	96411	4556792	47.24
31	.00217	93800	204	93698	3721750	39.68	31	.00107	96362	103	96311	4460381	46.29
32	.00227	93596	213	93489	3628053	38.76	32	.00115	96259	111	96204	4364070	45.34
33	.00239	93383	223	93272	3534563	37.85	33	.00126	96148	121	96088	4267866	44.39
34	.00252	93160	235	93043	3441292	36.94	34	.00139	96027	133	95961	4171779	43.44
35	.00268	92925	249	92801	3348249	36.03	35	.00153	95894	147	95821	4075818	42.50
36	.00288	92676	267	92543	3255449	35.13	36	.00168	95747	161	95667	3979998	41.57
37	.00310	92409	287	92266	3162906	34.23	37	.00184	95586	175	95499	3884331	40.64
38	.00337	92123	310	91967	3070640	33.33	38	.00199	95411	190	95316	3788832	39.71
39	.00367	91812	337	91643	2978673	32.44	39	.00215	95221	204	95119	3693516	38.79

Table 3h. Calendar Year 1970 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$
40	.00402	91475	368	91291	2887029	31.56	40	.00231	95017	220	94907	3598397	37.87
41	.00440	91107	401	90906	2795738	30.69	41	.00251	94797	237	94678	3503490	36.96
42	.00481	90706	437	90488	2704832	29.82	42	.00272	94560	257	94431	3408812	36.05
43	.00525	90269	474	90032	2614344	28.96	43	.00297	94302	280	94162	3314381	35.15
44	.00573	89795	514	89538	2524312	28.11	44	.00325	94022	305	93869	3220219	34.25
45	.00626	89281	559	89001	2434774	27.27	45	.00355	93716	333	93550	3126350	33.36
46	.00685	88722	608	88418	2345773	26.44	46	.00387	93383	362	93202	3032800	32.48
47	.00749	88114	660	87784	2257355	25.62	47	.00421	93022	391	92826	2939598	31.60
48	.00817	87455	714	87097	2169571	24.81	48	.00455	92630	421	92420	2846772	30.73
49	.00891	86740	773	86354	2082473	24.01	49	.00490	92209	452	91983	2754352	29.87
50	.00972	85967	835	85549	1996120	23.22	50	.00528	91757	485	91515	2662369	29.02
51	.01061	85132	903	84680	1910570	22.44	51	.00570	91273	520	91013	2570854	28.17
52	.01162	84228	979	83739	1825890	21.68	52	.00615	90753	558	90474	2479842	27.33
53	.01276	83250	1062	82718	1742151	20.93	53	.00663	90195	598	89896	2389368	26.49
54	.01402	82187	1152	81611	1659433	20.19	54	.00716	89597	641	89276	2299472	25.66
55	.01539	81035	1247	80412	1577822	19.47	55	.00773	88955	688	88611	2210196	24.85
56	.01684	79788	1343	79117	1497410	18.77	56	.00835	88268	737	87899	2121585	24.04
57	.01837	78445	1441	77724	1418293	18.08	57	.00900	87531	787	87137	2033686	23.23
58	.01997	77004	1538	76235	1340569	17.41	58	.00968	86743	840	86324	1946549	22.44
59	.02166	75466	1635	74649	1264334	16.75	59	.01040	85904	894	85457	1860225	21.65
60	.02348	73831	1733	72965	1189685	16.11	60	.01123	85010	955	84533	1774768	20.88
61	.02542	72098	1833	71181	1116720	15.49	61	.01215	84056	1021	83545	1690235	20.11
62	.02745	70265	1929	69301	1045539	14.88	62	.01306	83035	1085	82492	1606690	19.35
63	.02955	68336	2019	67327	976238	14.29	63	.01396	81950	1144	81378	1524197	18.60
64	.03175	66317	2106	65264	908911	13.71	64	.01490	80806	1204	80204	1442819	17.86
65	.03414	64211	2192	63115	843647	13.14	65	.01597	79602	1272	78967	1362615	17.12
66	.03672	62019	2277	60880	780532	12.59	66	.01726	78331	1352	77655	1283648	16.39
67	.03946	59742	2357	58563	719651	12.05	67	.01879	76978	1446	76255	1205993	15.67
68	.04235	57385	2430	56170	661088	11.52	68	.02059	75532	1555	74755	1129738	14.96
69	.04543	54955	2497	53706	604919	11.01	69	.02268	73977	1678	73138	1054984	14.26
70	.04879	52458	2560	51178	551212	10.51	70	.02508	72299	1813	71392	981846	13.58
71	.05246	49898	2618	48589	500034	10.02	71	.02777	70486	1958	69507	910453	12.92
72	.05643	47281	2668	45947	451445	9.55	72	.03071	68528	2105	67476	840946	12.27
73	.06071	44613	2708	43259	405498	9.09	73	.03389	66424	2251	65298	773470	11.64
74	.06535	41904	2738	40535	362240	8.64	74	.03737	64173	2398	62974	708172	11.04
75	.07039	39166	2757	37788	321704	8.21	75	.04127	61774	2549	60500	645198	10.44
76	.07587	36409	2762	35028	283917	7.80	76	.04565	59225	2704	57873	584698	9.87
77	.08178	33646	2752	32271	248889	7.40	77	.05057	56521	2858	55092	526825	9.32
78	.08814	30895	2723	29533	216619	7.01	78	.05606	53663	3008	52159	471733	8.79
79	.09498	28172	2676	26834	187085	6.64	79	.06213	50655	3147	49081	419574	8.28

Table 3h. Calendar Year 1970 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
80	.10230	25496	2608	24192	160252	6.29	80	.06875	47508	3266	45875	370493	7.80
81	.11017	22888	2522	21627	136060	5.94	81	.07594	44241	3360	42562	324618	7.34
82	.11871	20366	2418	19157	114433	5.62	82	.08378	40882	3425	39169	282056	6.90
83	.12798	17948	2297	16800	95275	5.31	83	.09230	37457	3457	35728	242887	6.48
84	.13790	15652	2158	14572	78475	5.01	84	.10149	33999	3451	32274	207159	6.09
85	.14841	13493	2003	12492	63903	4.74	85	.11130	30549	3400	28849	174885	5.72
86	.15944	11491	1832	10575	51411	4.47	86	.12170	27149	3304	25497	146036	5.38
87	.17093	9659	1651	8833	40837	4.23	87	.13266	23845	3163	22263	120539	5.06
88	.18288	8008	1464	7275	32004	4.00	88	.14419	20682	2982	19191	98275	4.75
89	.19529	6543	1278	5904	24728	3.78	89	.15629	17700	2766	16316	79085	4.47
90	.20820	5265	1096	4717	18824	3.58	90	.16895	14933	2523	13672	62768	4.20
91	.22161	4169	924	3707	14107	3.38	91	.18219	12410	2261	11280	49096	3.96
92	.23554	3245	764	2863	10400	3.20	92	.19601	10149	1989	9155	37817	3.73
93	.25002	2481	620	2171	7537	3.04	93	.21040	8160	1717	7301	28662	3.51
94	.26504	1861	493	1614	5366	2.88	94	.22537	6443	1452	5717	21361	3.32
95	.27990	1367	383	1176	3752	2.74	95	.24044	4991	1200	4391	15644	3.13
96	.29447	985	290	840	2576	2.62	96	.25551	3791	969	3307	11253	2.97
97	.30862	695	214	588	1736	2.50	97	.27045	2822	763	2441	7946	2.82
98	.32220	480	155	403	1149	2.39	98	.28511	2059	587	1766	5505	2.67
99	.33509	326	109	271	746	2.29	99	.29937	1472	441	1252	3740	2.54
100	.34849	216	75	179	475	2.19	100	.31433	1031	324	869	2488	2.41
101	.36243	141	51	115	296	2.10	101	.33005	707	233	590	1619	2.29
102	.37693	90	34	73	180	2.01	102	.34655	474	164	392	1028	2.17
103	.39201	56	22	45	107	1.92	103	.36388	310	113	253	637	2.06
104	.40769	34	14	27	62	1.83	104	.38208	197	75	159	383	1.95
105	.42399	20	9	16	35	1.75	105	.40118	122	49	97	224	1.84
106	.44095	12	5	9	19	1.67	106	.42124	73	31	58	127	1.74
107	.45859	6	3	5	10	1.59	107	.44230	42	19	33	69	1.64
108	.47693	4	2	3	5	1.52	108	.46441	24	11	18	37	1.55
109	.49601	2	1	1	3	1.45	109	.48764	13	6	10	18	1.46
110	.51585	1	0	1	1	1.38	110	.51202	6	3	5	9	1.38
111	.53649	0	0	0	1	1.31	111	.53649	3	2	2	4	1.31
112	.55795	0	0	0	0	1.24	112	.55795	1	1	1	2	1.24
113	.58027	0	0	0	0	1.18	113	.58027	1	0	0	1	1.18
114	.60347	0	0	0	0	1.12	114	.60347	0	0	0	0	1.12
115	.62761	0	0	0	0	1.06	115	.62761	0	0	0	0	1.06
116	.65272	0	0	0	0	1.00	116	.65272	0	0	0	0	1.00
117	.67883	0	0	0	0	.95	117	.67883	0	0	0	0	.95
118	.70598	0	0	0	0	.90	118	.70598	0	0	0	0	.90
119	.73422	0	0	0	0	.84	119	.73422	0	0	0	0	.84

Table 31. Calendar Year 1980 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o e(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o e(x)$
0	.01404	100000	1404	98757	6984541	69.85	0	.01122	100000	1122	99012	7753142	77.53
1	.00103	98596	102	98545	6885784	69.84	1	.00090	98878	89	98834	7654131	77.41
2	.00075	98495	74	98457	6787238	68.91	2	.00056	98790	55	98762	7555297	76.48
3	.00059	98420	58	98391	6688781	67.96	3	.00042	98735	41	98714	7456535	75.52
4	.00048	98363	47	98339	6590389	67.00	4	.00033	98693	33	98677	7357821	74.55
5	.00042	98315	41	98295	6492050	66.03	5	.00030	98661	30	98646	7259144	73.58
6	.00038	98274	37	98255	6393756	65.06	6	.00028	98631	28	98617	7160498	72.60
7	.00034	98237	34	98220	6295500	64.08	7	.00026	98603	26	98590	7061882	71.62
8	.00030	98203	29	98188	6197280	63.11	8	.00024	98577	24	98565	6963292	70.64
9	.00025	98174	25	98161	6099092	62.13	9	.00022	98553	22	98542	6864727	69.66
10	.00021	98149	21	98139	6000931	61.14	10	.00020	98531	20	98521	6766185	68.67
11	.00021	98128	21	98118	5902792	60.15	11	.00020	98511	19	98502	6667664	67.68
12	.00030	98108	29	98093	5804674	59.17	12	.00021	98492	21	98482	6569162	66.70
13	.00048	98079	47	98055	5706581	58.18	13	.00026	98471	25	98459	6470680	65.71
14	.00073	98032	72	97996	5608526	57.21	14	.00032	98446	32	98430	6372221	64.73
15	.00101	97960	99	97911	5510530	56.25	15	.00040	98414	39	98395	6273791	63.75
16	.00128	97861	125	97799	5412619	55.31	16	.00047	98375	46	98352	6175396	62.77
17	.00150	97736	147	97663	5314820	54.38	17	.00053	98329	52	98303	6077045	61.80
18	.00167	97589	163	97508	5217158	53.46	18	.00056	98277	55	98249	5978742	60.84
19	.00179	97426	174	97339	5119650	52.55	19	.00057	98222	56	98194	5880492	59.87
20	.00190	97252	185	97160	5022310	51.64	20	.00058	98166	57	98137	5782298	58.90
21	.00201	97068	195	96970	4925151	50.74	21	.00059	98109	58	98080	5684161	57.94
22	.00207	96873	201	96772	4828180	49.84	22	.00061	98051	60	98021	5586081	56.97
23	.00209	96672	202	96571	4731408	48.94	23	.00062	97991	61	97960	5488061	56.01
24	.00207	96469	200	96369	4634838	48.04	24	.00064	97930	62	97899	5390100	55.04
25	.00204	96269	196	96171	4538468	47.14	25	.00065	97867	64	97835	5292202	54.08
26	.00201	96073	193	95977	4442297	46.24	26	.00067	97803	66	97771	5194366	53.11
27	.00197	95880	189	95786	4346320	45.33	27	.00069	97738	67	97704	5096596	52.15
28	.00195	95691	187	95598	4250535	44.42	28	.00070	97671	69	97636	4998892	51.18
29	.00194	95504	185	95411	4154937	43.51	29	.00072	97602	70	97567	4901256	50.22
30	.00193	95319	184	95227	4059526	42.59	30	.00075	97531	73	97495	4803689	49.25
31	.00194	95134	184	95042	3964299	41.67	31	.00078	97459	76	97421	4706194	48.29
32	.00196	94950	186	94857	3869257	40.75	32	.00082	97383	80	97343	4608773	47.33
33	.00200	94765	189	94670	3774399	39.83	33	.00086	97303	84	97261	4511431	46.36
34	.00207	94575	195	94478	3679730	38.91	34	.00091	97219	89	97175	4414170	45.40
35	.00215	94380	203	94278	3585252	37.99	35	.00098	97130	95	97083	4316995	44.45
36	.00227	94177	213	94070	3490974	37.07	36	.00105	97036	102	96985	4219912	43.49
37	.00241	93963	226	93850	3396904	36.15	37	.00115	96934	112	96878	4122927	42.53
38	.00259	93737	242	93615	3303054	35.24	38	.00128	96822	124	96760	4026049	41.58
39	.00279	93494	261	93364	3209439	34.33	39	.00144	96698	139	96628	3929290	40.63

Table 31. Calendar Year 1980 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
40	.00304	93233	283	93092	3116075	33.42	40	.00161	96558	156	96481	3832662	39.69
41	.00332	92950	309	92795	3022984	32.52	41	.00180	96403	174	96316	3736181	38.76
42	.00364	92641	337	92473	2930188	31.63	42	.00200	96229	192	96133	3639865	37.83
43	.00399	92304	368	92120	2837716	30.74	43	.00221	96037	212	95931	3543732	36.90
44	.00438	91936	403	91734	2745596	29.86	44	.00242	95825	232	95709	3447802	35.98
45	.00482	91533	441	91312	2653862	28.99	45	.00266	95592	254	95465	3352093	35.07
46	.00531	91092	483	90850	2562550	28.13	46	.00292	95338	279	95199	3256628	34.16
47	.00586	90608	531	90343	2471700	27.28	47	.00320	95059	304	94907	3161429	33.26
48	.00648	90077	584	89786	2381357	26.44	48	.00349	94755	331	94590	3066522	32.36
49	.00717	89494	642	89173	2291571	25.61	49	.00380	94425	359	94245	2971932	31.47
50	.00793	88852	704	88500	2202398	24.79	50	.00413	94066	389	93872	2877687	30.59
51	.00874	88148	770	87763	2113898	23.98	51	.00450	93677	422	93466	2783815	29.72
52	.00959	87377	838	86959	2026136	23.19	52	.00490	93255	457	93027	2690349	28.85
53	.01046	86540	905	86087	1939177	22.41	53	.00533	92798	495	92551	2597322	27.99
54	.01137	85634	974	85147	1853090	21.64	54	.00581	92303	536	92035	2504771	27.14
55	.01239	84660	1049	84136	1767943	20.88	55	.00632	91767	580	91477	2412736	26.29
56	.01350	83612	1128	83048	1683807	20.14	56	.00689	91187	628	90873	2321258	25.46
57	.01466	82483	1209	81879	1600759	19.41	57	.00749	90559	678	90220	2230385	24.63
58	.01586	81274	1289	80630	1518880	18.69	58	.00811	89881	729	89516	2140165	23.81
59	.01714	79985	1371	79300	1438250	17.98	59	.00878	89152	783	88760	2050649	23.00
60	.01852	78614	1456	77886	1358950	17.29	60	.00952	88369	841	87948	1961889	22.20
61	.02007	77158	1548	76384	1281064	16.60	61	.01033	87528	905	87075	1873941	21.41
62	.02187	75610	1654	74783	1204681	15.93	62	.01124	86623	973	86136	1786865	20.63
63	.02398	73956	1773	73069	1129898	15.28	63	.01223	85650	1047	85126	1700729	19.86
64	.02635	72183	1902	71232	1056828	14.64	64	.01332	84602	1127	84039	1615603	19.10
65	.02895	70281	2035	69264	985596	14.02	65	.01455	83476	1214	82868	1531564	18.35
66	.03170	68246	2163	67165	916333	13.43	66	.01590	82261	1308	81607	1448695	17.61
67	.03450	66083	2280	64943	849168	12.85	67	.01730	80954	1400	80253	1367088	16.89
68	.03730	63803	2380	62613	784225	12.29	68	.01874	79553	1491	78808	1286835	16.18
69	.04018	61423	2468	60189	721611	11.75	69	.02028	78062	1583	77271	1208027	15.48
70	.04328	58955	2552	57679	661422	11.22	70	.02203	76479	1685	75637	1130756	14.79
71	.04669	56403	2633	55087	603743	10.70	71	.02404	74795	1798	73896	1055119	14.11
72	.05039	53770	2709	52415	548656	10.20	72	.02623	72997	1915	72040	981223	13.44
73	.05441	51061	2778	49672	496240	9.72	73	.02863	71082	2035	70065	909184	12.79
74	.05877	48283	2837	46864	446569	9.25	74	.03128	69047	2160	67967	839119	12.15
75	.06354	45445	2887	44001	399705	8.80	75	.03432	66887	2296	65740	771152	11.53
76	.06867	42558	2922	41097	355704	8.36	76	.03778	64592	2441	63372	705412	10.92
77	.07405	39635	2935	38168	314607	7.94	77	.04166	62151	2589	60857	642041	10.33
78	.07967	36700	2924	35238	276439	7.53	78	.04597	59562	2738	58193	581184	9.76
79	.08562	33776	2892	32330	241201	7.14	79	.05078	56824	2886	55381	522991	9.20

Table 31. Calendar Year 1980 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
80	.09199	30884	2841	29464	208870	6.76	80	.05615	53938	3029	52424	467610	8.67
81	.09896	28043	2775	26656	179406	6.40	81	.06214	50910	3164	49328	415186	8.16
82	.10673	25268	2697	23920	152751	6.05	82	.06885	47746	3287	46102	365858	7.66
83	.11539	22571	2605	21269	128831	5.71	83	.07631	44459	3393	42762	319755	7.19
84	.12486	19967	2493	18720	107562	5.39	84	.08455	41066	3472	39330	276993	6.75
85	.13497	17474	2358	16295	88841	5.08	85	.09352	37594	3516	35836	237663	6.32
86	.14558	15115	2200	14015	72547	4.80	86	.10323	34078	3518	32319	201827	5.92
87	.15661	12915	2023	11904	58532	4.53	87	.11367	30560	3474	28823	169508	5.55
88	.16806	10892	1831	9977	46628	4.28	88	.12484	27086	3382	25396	140685	5.19
89	.17997	9062	1631	8246	36651	4.04	89	.13677	23705	3242	22084	115289	4.86
90	.19238	7431	1430	6716	28405	3.82	90	.14948	20463	3059	18933	93205	4.55
91	.20537	6001	1232	5385	21688	3.61	91	.16299	17404	2837	15986	74272	4.27
92	.21898	4769	1044	4247	16303	3.42	92	.17730	14567	2583	13276	58287	4.00
93	.23328	3725	869	3290	12057	3.24	93	.19243	11985	2306	10831	45011	3.76
94	.24829	2856	709	2501	8766	3.07	94	.20838	9678	2017	8670	34179	3.53
95	.26305	2147	565	1864	6265	2.92	95	.22428	7662	1718	6802	25509	3.33
96	.27742	1582	439	1363	4401	2.78	96	.23992	5943	1426	5230	18707	3.15
97	.29121	1143	333	977	3038	2.66	97	.25507	4517	1152	3941	13477	2.98
98	.30428	810	247	687	2062	2.54	98	.26950	3365	907	2912	9536	2.83
99	.31645	564	178	475	1375	2.44	99	.28298	2458	696	2110	6624	2.69
100	.32911	385	127	322	900	2.34	100	.29713	1763	524	1501	4514	2.56
101	.34227	259	88	214	578	2.24	101	.31198	1239	387	1046	3013	2.43
102	.35596	170	61	140	364	2.14	102	.32758	852	279	713	1967	2.31
103	.37020	110	41	89	224	2.05	103	.34396	573	197	475	1254	2.19
104	.38501	69	27	56	135	1.96	104	.36116	376	136	308	780	2.07
105	.40041	42	17	34	79	1.87	105	.37922	240	91	195	472	1.96
106	.41643	25	11	20	45	1.79	106	.39818	149	59	119	277	1.86
107	.43308	15	6	12	25	1.71	107	.41809	90	38	71	158	1.76
108	.45041	8	4	7	14	1.63	108	.43899	52	23	41	87	1.66
109	.46842	5	2	4	7	1.55	109	.46094	29	14	23	46	1.57
110	.48716	2	1	2	4	1.48	110	.48399	16	8	12	23	1.48
111	.50665	1	1	1	2	1.41	111	.50665	8	4	6	11	1.41
112	.52691	1	0	0	1	1.34	112	.52691	4	2	3	5	1.34
113	.54799	0	0	0	0	1.27	113	.54799	2	1	1	2	1.27
114	.56991	0	0	0	0	1.21	114	.56991	1	0	1	1	1.21
115	.59271	0	0	0	0	1.15	115	.59271	0	0	0	0	1.15
116	.61641	0	0	0	0	1.09	116	.61641	0	0	0	0	1.09
117	.64107	0	0	0	0	1.03	117	.64107	0	0	0	0	1.03
118	.66671	0	0	0	0	.97	118	.66671	0	0	0	0	.97
119	.69338	0	0	0	0	.92	119	.69338	0	0	0	0	.92

Table 3j. Calendar Year 1990 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
0	.01049	100000	1049	99071	7228722	72.29	0	.00857	100000	857	99245	7984888	79.85
1	.00082	98951	81	98910	7129651	72.05	1	.00069	99143	68	99109	7885643	79.54
2	.00060	98870	59	98840	7030740	71.11	2	.00043	99075	42	99054	7786534	78.59
3	.00046	98811	46	98788	6931900	70.15	3	.00032	99033	32	99017	7687480	77.63
4	.00038	98765	38	98746	6833112	69.19	4	.00025	99001	25	98989	7588463	76.65
5	.00032	98727	31	98712	6734366	68.21	5	.00022	98976	22	98965	7489474	75.67
6	.00027	98696	27	98683	6635655	67.23	6	.00020	98954	20	98944	7390509	74.69
7	.00024	98669	24	98657	6536972	66.25	7	.00019	98934	19	98924	7291566	73.70
8	.00021	98645	21	98635	6438315	65.27	8	.00017	98915	17	98906	7192641	72.72
9	.00018	98625	17	98616	6339680	64.28	9	.00016	98898	16	98890	7093735	71.73
10	.00016	98607	15	98600	6241063	63.29	10	.00015	98882	15	98874	6994845	70.74
11	.00017	98592	17	98584	6142464	62.30	11	.00016	98866	16	98859	6895971	69.75
12	.00024	98575	24	98563	6043880	61.31	12	.00018	98851	18	98842	6797113	68.76
13	.00039	98551	39	98532	5945317	60.33	13	.00022	98833	22	98822	6698271	67.77
14	.00059	98512	58	98483	5846786	59.35	14	.00027	98812	27	98798	6599448	66.79
15	.00082	98454	81	98413	5748303	58.39	15	.00034	98785	33	98768	6500650	65.81
16	.00103	98373	102	98322	5649889	57.43	16	.00040	98751	39	98732	6401882	64.83
17	.00121	98271	119	98212	5551567	56.49	17	.00044	98712	44	98690	6303150	63.85
18	.00134	98152	131	98086	5453355	55.56	18	.00047	98668	46	98645	6204460	62.88
19	.00142	98021	139	97951	5355269	54.63	19	.00048	98622	48	98598	6105815	61.91
20	.00149	97882	145	97809	5257318	53.71	20	.00049	98574	48	98550	6007217	60.94
21	.00156	97736	152	97660	5159509	52.79	21	.00050	98526	50	98501	5908667	59.97
22	.00162	97584	158	97505	5061848	51.87	22	.00052	98476	51	98451	5810166	59.00
23	.00168	97426	164	97344	4964343	50.96	23	.00053	98425	52	98399	5711715	58.03
24	.00174	97262	169	97177	4866999	50.04	24	.00055	98373	54	98346	5613316	57.06
25	.00180	97093	174	97005	4769822	49.13	25	.00056	98320	55	98292	5514969	56.09
26	.00184	96918	178	96829	4672817	48.21	26	.00058	98264	57	98236	5416678	55.12
27	.00185	96740	179	96651	4575988	47.30	27	.00059	98207	58	98179	5318442	54.16
28	.00181	96561	174	96474	4479337	46.39	28	.00059	98150	58	98121	5220263	53.19
29	.00174	96387	168	96303	4382863	45.47	29	.00059	98092	57	98063	5122142	52.22
30	.00166	96219	160	96140	4286560	44.55	30	.00059	98035	57	98006	5024079	51.25
31	.00160	96060	154	95983	4190421	43.62	31	.00059	97977	58	97948	4926073	50.28
32	.00157	95906	151	95831	4094438	42.69	32	.00061	97919	60	97889	4828125	49.31
33	.00159	95755	152	95679	3998607	41.76	33	.00063	97859	61	97829	4730235	48.34
34	.00165	95603	157	95524	3902928	40.82	34	.00065	97798	64	97766	4632407	47.37
35	.00172	95445	165	95363	3807404	39.89	35	.00069	97734	67	97701	4534640	46.40
36	.00182	95281	173	95194	3712041	38.96	36	.00073	97667	72	97631	4436940	45.43
37	.00193	95108	184	95016	3616847	38.03	37	.00081	97596	79	97556	4339308	44.46
38	.00206	94924	196	94826	3521831	37.10	38	.00093	97517	90	97471	4241752	43.50
39	.00222	94728	210	94623	3427005	36.18	39	.00107	97426	105	97374	4144281	42.54

Table 3j. Calendar Year 1990 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$
40	.00241	94518	228	94404	3332382	35.26	40	.00124	97322	121	97261	4046907	41.58
41	.00263	94290	248	94166	3237978	34.34	41	.00142	97201	138	97132	3949646	40.63
42	.00288	94041	271	93906	3143813	33.43	42	.00160	97063	155	96985	3852514	39.69
43	.00316	93770	297	93622	3049907	32.53	43	.00176	96908	171	96822	3755529	38.75
44	.00347	93474	325	93311	2956285	31.63	44	.00193	96737	187	96644	3658707	37.82
45	.00381	93149	355	92971	2862974	30.74	45	.00211	96550	204	96448	3562063	36.89
46	.00420	92794	389	92599	2770002	29.85	46	.00232	96346	223	96235	3465615	35.97
47	.00465	92404	430	92189	2677403	28.97	47	.00255	96123	245	96000	3369380	35.05
48	.00519	91974	478	91736	2585214	28.11	48	.00281	95878	270	95743	3273380	34.14
49	.00581	91497	531	91231	2493478	27.25	49	.00310	95608	296	95460	3177637	33.24
50	.00650	90966	591	90670	2402247	26.41	50	.00342	95312	326	95149	3082178	32.34
51	.00722	90375	653	90048	2311577	25.58	51	.00377	94985	358	94806	2987029	31.45
52	.00791	89722	709	89367	2221528	24.76	52	.00414	94627	391	94431	2892223	30.56
53	.00852	89013	759	88633	2132161	23.95	53	.00451	94236	425	94023	2797791	29.69
54	.00912	88254	805	87851	2043528	23.16	54	.00491	93811	460	93581	2703768	28.82
55	.00979	87449	856	87021	1955676	22.36	55	.00533	93350	498	93101	2610187	27.96
56	.01058	86593	916	86135	1868655	21.58	56	.00582	92852	540	92582	2517086	27.11
57	.01149	85677	984	85185	1782520	20.81	57	.00637	92312	588	92018	2424504	26.26
58	.01254	84693	1062	84162	1697335	20.04	58	.00702	91724	644	91402	2332485	25.43
59	.01375	83631	1150	83056	1613173	19.29	59	.00775	91080	706	90727	2241083	24.61
60	.01505	82481	1241	81861	1530116	18.55	60	.00854	90374	772	89988	2150356	23.79
61	.01650	81240	1340	80570	1448255	17.83	61	.00937	89603	840	89183	2060368	22.99
62	.01822	79900	1456	79172	1367686	17.12	62	.01025	88763	910	88308	1971185	22.21
63	.02026	78444	1590	77649	1288514	16.43	63	.01117	87853	981	87362	1882877	21.43
64	.02257	76854	1735	75987	1210864	15.76	64	.01213	86872	1054	86345	1795514	20.67
65	.02511	75120	1886	74176	1134878	15.11	65	.01319	85818	1132	85252	1709169	19.92
66	.02774	73233	2032	72217	1060701	14.48	66	.01433	84686	1213	84079	1623917	19.18
67	.03035	71201	2161	70121	988484	13.88	67	.01546	83473	1290	82828	1539838	18.45
68	.03285	69041	2268	67906	918363	13.30	68	.01656	82182	1361	81502	1457010	17.73
69	.03534	66772	2360	65592	850456	12.74	69	.01768	80822	1429	80108	1375508	17.02
70	.03800	64412	2448	63189	784864	12.18	70	.01894	79393	1504	78641	1295401	16.32
71	.04093	61965	2536	60697	721675	11.65	71	.02040	77889	1589	77095	1216759	15.62
72	.04410	59429	2621	58118	660979	11.12	72	.02199	76300	1678	75462	1139664	14.94
73	.04754	56808	2701	55458	602860	10.61	73	.02372	74623	1770	73738	1064203	14.26
74	.05128	54107	2775	52720	547403	10.12	74	.02564	72853	1868	71919	990465	13.60
75	.05540	51332	2844	49911	494683	9.64	75	.02787	70985	1978	69996	918546	12.94
76	.05983	48489	2901	47038	444772	9.17	76	.03043	69007	2100	67957	848550	12.30
77	.06445	45588	2938	44119	397734	8.72	77	.03331	66907	2228	65793	780593	11.67
78	.06923	42649	2953	41173	353615	8.29	78	.03652	64679	2362	63498	714800	11.05
79	.07430	39697	2950	38222	312442	7.87	79	.04013	62317	2501	61066	651302	10.45

Table 3j. Calendar Year 1990 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$\overset{o}{e}(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\overset{o}{e}(x)$
80	.07970	36747	2929	35283	274221	7.46	80	.04432	59816	2651	58490	590236	9.87
81	.08569	33818	2898	32369	238938	7.07	81	.04909	57165	2806	55762	531745	9.30
82	.09258	30920	2863	29489	206568	6.68	82	.05429	54359	2951	52883	475984	8.76
83	.10052	28058	2820	26648	177079	6.31	83	.05991	51407	3080	49867	423101	8.23
84	.10934	25238	2759	23858	150432	5.96	84	.06611	48327	3195	46730	373234	7.72
85	.11877	22478	2670	21143	126574	5.63	85	.07308	45132	3299	43483	326504	7.23
86	.12860	19808	2547	18535	105430	5.32	86	.08102	41834	3389	40139	283020	6.77
87	.13868	17261	2394	16064	86896	5.03	87	.09002	38445	3461	36714	242881	6.32
88	.14899	14867	2215	13760	70832	4.76	88	.10017	34984	3504	33232	206167	5.89
89	.15959	12652	2019	11643	57072	4.51	89	.11146	31480	3509	29725	172935	5.49
90	.17057	10633	1814	9726	45429	4.27	90	.12388	27971	3465	26239	143209	5.12
91	.18202	8819	1605	8017	35703	4.05	91	.13740	24506	3367	22823	116971	4.77
92	.19405	7214	1400	6514	27687	3.84	92	.15197	21139	3213	19533	94148	4.45
93	.20674	5814	1202	5213	21172	3.64	93	.16757	17927	3004	16425	74615	4.16
94	.22016	4612	1015	4104	15959	3.46	94	.18414	14923	2748	13549	58191	3.90
95	.23336	3597	839	3177	11855	3.30	95	.20055	12175	2442	10954	44642	3.67
96	.24619	2757	679	2418	8678	3.15	96	.21647	9733	2107	8680	33689	3.46
97	.25849	2079	537	1810	6260	3.01	97	.23152	7626	1766	6743	25009	3.28
98	.27012	1541	416	1333	4450	2.89	98	.24536	5861	1438	5142	18266	3.12
99	.28092	1125	316	967	3117	2.77	99	.25763	4423	1139	3853	13124	2.97
100	.29216	809	236	691	2150	2.66	100	.27051	3283	888	2839	9271	2.82
101	.30385	573	174	486	1459	2.55	101	.28404	2395	680	2055	6432	2.69
102	.31600	399	126	336	974	2.44	102	.29824	1715	511	1459	4377	2.55
103	.32864	273	90	228	638	2.34	103	.31315	1203	377	1015	2918	2.43
104	.34179	183	63	152	410	2.24	104	.32881	827	272	691	1903	2.30
105	.35546	120	43	99	258	2.14	105	.34525	555	192	459	1213	2.19
106	.36968	78	29	63	159	2.05	106	.36251	363	132	297	754	2.08
107	.38446	49	19	40	96	1.96	107	.38064	232	88	187	456	1.97
108	.39984	30	12	24	56	1.87	108	.39967	143	57	115	269	1.88
109	.41584	18	8	14	32	1.79	109	.41584	86	36	68	154	1.79
110	.43247	11	5	8	18	1.71	110	.43247	50	22	39	86	1.71
111	.44977	6	3	5	10	1.63	111	.44977	29	13	22	47	1.63
112	.46776	3	2	3	5	1.55	112	.46776	16	7	12	24	1.55
113	.48647	2	1	1	3	1.48	113	.48647	8	4	6	12	1.48
114	.50593	1	0	1	1	1.41	114	.50593	4	2	3	6	1.41
115	.52617	0	0	0	1	1.34	115	.52617	2	1	2	3	1.34
116	.54721	0	0	0	0	1.27	116	.54721	1	1	1	1	1.27
117	.56910	0	0	0	0	1.21	117	.56910	0	0	0	1	1.21
118	.59187	0	0	0	0	1.15	118	.59187	0	0	0	0	1.15
119	.61554	0	0	0	0	1.09	119	.61554	0	0	0	0	1.09

Table 3k. Calendar Year 2000 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$\int_0^{\infty} e(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\int_0^{\infty} e(x)$
0	.00985	100000	985	99128	7341740	73.42	0	.00792	100000	792	99302	8104636	81.05
1	.00073	99015	73	98979	7242612	73.15	1	.00061	99208	60	99178	8005333	80.69
2	.00054	98942	53	98916	7143634	72.20	2	.00037	99148	37	99129	7906155	79.74
3	.00042	98889	41	98869	7044718	71.24	3	.00028	99111	28	99097	7807026	78.77
4	.00034	98848	34	98831	6945849	70.27	4	.00022	99083	22	99072	7707929	77.79
5	.00028	98815	27	98801	6847017	69.29	5	.00019	99061	19	99051	7608857	76.81
6	.00024	98787	23	98775	6748217	68.31	6	.00017	99042	17	99033	7509806	75.82
7	.00021	98764	20	98753	6649441	67.33	7	.00016	99024	16	99016	7410773	74.84
8	.00018	98743	17	98734	6550688	66.34	8	.00015	99009	15	99001	7311757	73.85
9	.00015	98726	15	98718	6451953	65.35	9	.00014	98994	14	98987	7212755	72.86
10	.00013	98711	13	98705	6353235	64.36	10	.00013	98980	13	98974	7113768	71.87
11	.00014	98698	14	98691	6254530	63.37	11	.00014	98967	14	98961	7014794	70.88
12	.00022	98684	21	98674	6155839	62.38	12	.00016	98954	16	98946	6915834	69.89
13	.00036	98663	35	98645	6057165	61.39	13	.00020	98938	20	98928	6816888	68.90
14	.00055	98628	54	98601	5958520	60.41	14	.00026	98918	25	98905	6717960	67.91
15	.00076	98574	75	98536	5859920	59.45	15	.00032	98893	32	98877	6619055	66.93
16	.00097	98498	95	98451	5761384	58.49	16	.00038	98861	37	98842	6520178	65.95
17	.00114	98403	112	98347	5662933	57.55	17	.00043	98824	42	98803	6421336	64.98
18	.00125	98291	123	98230	5564586	56.61	18	.00046	98781	45	98759	6322533	64.01
19	.00132	98168	130	98104	5466356	55.68	19	.00047	98736	47	98713	6223774	63.03
20	.00138	98039	135	97971	5368253	54.76	20	.00048	98690	48	98666	6125061	62.06
21	.00143	97904	140	97834	5270281	53.83	21	.00050	98642	49	98618	6026395	61.09
22	.00150	97764	146	97690	5172448	52.91	22	.00051	98593	50	98568	5927777	60.12
23	.00156	97617	153	97541	5074757	51.99	23	.00051	98544	51	98518	5829209	59.15
24	.00163	97465	159	97385	4977216	51.07	24	.00052	98493	51	98467	5730691	58.18
25	.00170	97306	166	97223	4879831	50.15	25	.00053	98441	52	98416	5632224	57.21
26	.00176	97140	171	97054	4782609	49.23	26	.00053	98390	52	98363	5533808	56.24
27	.00177	96969	171	96883	4685554	48.32	27	.00053	98337	52	98311	5435445	55.27
28	.00172	96797	166	96714	4588671	47.40	28	.00053	98285	52	98259	5337134	54.30
29	.00163	96631	158	96552	4491957	46.49	29	.00052	98233	51	98208	5238875	53.33
30	.00153	96473	148	96400	4395405	45.56	30	.00052	98182	51	98157	5140667	52.36
31	.00145	96326	139	96256	4299005	44.63	31	.00052	98131	51	98106	5042510	51.39
32	.00140	96186	135	96119	4202749	43.69	32	.00053	98080	52	98054	4944405	50.41
33	.00141	96052	135	95984	4106630	42.75	33	.00054	98028	53	98002	4846350	49.44
34	.00146	95917	140	95847	4010646	41.81	34	.00055	97976	54	97949	4748348	48.46
35	.00153	95777	146	95704	3914799	40.87	35	.00057	97922	56	97894	4650399	47.49
36	.00161	95631	154	95554	3819096	39.94	36	.00061	97866	60	97836	4552506	46.52
37	.00170	95477	163	95396	3723542	39.00	37	.00067	97806	66	97773	4454670	45.55
38	.00181	95314	173	95228	3628146	38.07	38	.00077	97740	76	97702	4356897	44.58
39	.00194	95142	184	95050	3532918	37.13	39	.00091	97664	88	97620	4259195	43.61

Table 3k. Calendar Year 2000 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$
40	.00209	94957	198	94858	3437869	36.20	40	.00106	97576	103	97524	4161575	42.65
41	.00228	94759	216	94651	3343010	35.28	41	.00122	97473	119	97414	4064050	41.69
42	.00250	94543	236	94425	3248359	34.36	42	.00138	97354	134	97287	3966637	40.74
43	.00275	94307	260	94178	3153934	33.44	43	.00152	97220	148	97146	3869349	39.80
44	.00305	94048	287	93904	3059756	32.53	44	.00167	97072	162	96991	3772203	38.86
45	.00337	93761	316	93603	2965852	31.63	45	.00184	96910	178	96821	3675213	37.92
46	.00372	93445	348	93271	2872249	30.74	46	.00202	96732	196	96634	3578392	36.99
47	.00415	93097	387	92904	2778977	29.85	47	.00224	96536	216	96428	3481758	36.07
48	.00467	92711	433	92495	2686073	28.97	48	.00248	96320	239	96201	3385330	35.15
49	.00525	92278	484	92036	2593579	28.11	49	.00276	96081	265	95949	3289129	34.23
50	.00591	91794	542	91523	2501542	27.25	50	.00307	95816	294	95669	3193180	33.33
51	.00659	91252	602	90951	2410019	26.41	51	.00341	95522	326	95359	3097511	32.43
52	.00721	90650	654	90323	2319068	25.58	52	.00375	95196	357	95018	3002152	31.54
53	.00772	89997	695	89649	2228745	24.76	53	.00410	94839	389	94645	2907134	30.65
54	.00818	89302	731	88936	2139096	23.95	54	.00446	94450	422	94239	2812489	29.78
55	.00869	88571	770	88186	2050159	23.15	55	.00485	94028	456	93800	2718250	28.91
56	.00934	87801	820	87391	1961973	22.35	56	.00530	93572	496	93325	2624450	28.05
57	.01013	86981	881	86540	1874582	21.55	57	.00583	93077	543	92805	2531125	27.19
58	.01112	86100	957	85621	1788042	20.77	58	.00648	92534	600	92234	2438320	26.35
59	.01228	85143	1046	84620	1702420	19.99	59	.00723	91934	664	91602	2346086	25.52
60	.01355	84097	1139	83527	1617801	19.24	60	.00803	91270	733	90903	2254484	24.70
61	.01495	82957	1240	82337	1534274	18.49	61	.00886	90537	802	90136	2163581	23.90
62	.01660	81717	1357	81039	1451937	17.77	62	.00973	89735	873	89298	2073445	23.11
63	.01856	80361	1491	79615	1370898	17.06	63	.01062	88862	943	88390	1984147	22.33
64	.02076	78870	1637	78051	1291282	16.37	64	.01153	87919	1014	87412	1895757	21.56
65	.02318	77233	1790	76337	1213231	15.71	65	.01253	86905	1089	86360	1808345	20.81
66	.02569	75442	1938	74473	1136894	15.07	66	.01359	85815	1166	85232	1721985	20.07
67	.02816	73504	2070	72469	1062421	14.45	67	.01461	84649	1236	84031	1636753	19.34
68	.03052	71434	2180	70344	989951	13.86	68	.01556	83413	1297	82764	1552722	18.61
69	.03285	69254	2275	68117	919607	13.28	69	.01649	82115	1354	81438	1469958	17.90
70	.03532	66979	2366	65796	851491	12.71	70	.01754	80761	1417	80053	1388520	17.19
71	.03805	64614	2459	63384	785694	12.16	71	.01876	79344	1488	78600	1308467	16.49
72	.04103	62155	2550	60880	722310	11.62	72	.02007	77856	1563	77074	1229867	15.80
73	.04429	59604	2640	58284	661430	11.10	73	.02150	76293	1640	75473	1152792	15.11
74	.04784	56964	2725	55602	603146	10.59	74	.02309	74653	1724	73791	1077319	14.43
75	.05173	54239	2806	52836	547544	10.09	75	.02494	72929	1819	72019	1003529	13.76
76	.05591	51433	2876	49996	494708	9.62	76	.02709	71110	1927	70147	931509	13.10
77	.06027	48558	2927	47095	444712	9.16	77	.02953	69183	2043	68162	861363	12.45
78	.06479	45631	2957	44153	397618	8.71	78	.03228	67141	2167	66057	793200	11.81
79	.06958	42675	2969	41190	353465	8.28	79	.03540	64973	2300	63824	727144	11.19

Table 3k. Calendar Year 2000 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$
80	.07465	39705	2964	38223	312275	7.86	80	.03906	62674	2448	61450	663320	10.58
81	.08025	36741	2949	35267	274052	7.46	81	.04325	60225	2605	58923	601870	9.99
82	.08667	33792	2929	32328	238785	7.07	82	.04779	57620	2754	56244	542948	9.42
83	.09406	30864	2903	29412	206457	6.69	83	.05264	54867	2888	53423	486704	8.87
84	.10225	27960	2859	26531	177045	6.33	84	.05798	51979	3014	50472	433281	8.34
85	.11097	25101	2786	23709	150514	6.00	85	.06406	48965	3137	47397	382809	7.82
86	.12000	22316	2678	20977	126806	5.68	86	.07107	45828	3257	44200	335412	7.32
87	.12919	19638	2537	18370	105829	5.39	87	.07917	42571	3370	40886	291213	6.84
88	.13853	17101	2369	15917	87459	5.11	88	.08841	39201	3466	37468	250327	6.39
89	.14806	14732	2181	13641	71543	4.86	89	.09881	35735	3531	33970	212859	5.96
90	.15786	12551	1981	11560	57901	4.61	90	.11035	32204	3554	30427	178889	5.55
91	.16805	10570	1776	9681	46341	4.38	91	.12298	28650	3523	26889	148462	5.18
92	.17870	8793	1571	8008	36659	4.17	92	.13667	25127	3434	23410	121573	4.84
93	.18991	7222	1372	6536	28652	3.97	93	.15137	21693	3284	20051	98163	4.53
94	.20175	5850	1180	5260	22116	3.78	94	.16702	18409	3075	16872	78112	4.24
95	.21343	4670	997	4172	16855	3.61	95	.18251	15335	2799	13935	61240	3.99
96	.22483	3673	826	3260	12683	3.45	96	.19748	12536	2476	11298	47305	3.77
97	.23583	2848	672	2512	9423	3.31	97	.21157	10060	2128	8996	36007	3.58
98	.24632	2176	536	1908	6911	3.18	98	.22441	7932	1780	7042	27011	3.41
99	.25617	1640	420	1430	5003	3.05	99	.23563	6152	1450	5427	19969	3.25
100	.26642	1220	325	1057	3573	2.93	100	.24741	4702	1163	4121	14542	3.09
101	.27707	895	248	771	2516	2.81	101	.25978	3539	919	3079	10421	2.94
102	.28816	647	186	554	1745	2.70	102	.27277	2620	715	2262	7342	2.80
103	.29968	461	138	392	1191	2.59	103	.28641	1905	546	1632	5080	2.67
104	.31167	323	101	272	800	2.48	104	.30073	1359	409	1155	3448	2.54
105	.32414	222	72	186	527	2.38	105	.31577	951	300	800	2293	2.41
106	.33710	150	51	125	341	2.28	106	.33156	650	216	543	1492	2.29
107	.35058	99	35	82	217	2.18	107	.34814	435	151	359	950	2.18
108	.36461	65	24	53	135	2.08	108	.36461	283	103	232	591	2.08
109	.37919	41	16	33	82	1.99	109	.37919	180	68	146	359	1.99
110	.39436	25	10	20	49	1.90	110	.39436	112	44	90	213	1.90
111	.41013	15	6	12	28	1.82	111	.41013	68	28	54	123	1.82
112	.42654	9	4	7	16	1.74	112	.42654	40	17	31	69	1.74
113	.44360	5	2	4	9	1.66	113	.44360	23	10	18	38	1.66
114	.46134	3	1	2	5	1.58	114	.46134	13	6	10	20	1.58
115	.47980	2	1	1	2	1.51	115	.47980	7	3	5	10	1.51
116	.49899	1	0	1	1	1.43	116	.49899	4	2	3	5	1.43
117	.51895	0	0	0	1	1.36	117	.51895	2	1	1	2	1.36
118	.53971	0	0	0	0	1.30	118	.53971	1	0	1	1	1.30
119	.56130	0	0	0	0	1.23	119	.56130	0	0	0	0	1.23

Table 31. Calendar Year 2010 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
0	.00931	100000	931	99175	7393152	73.93	0	.00746	100000	746	99343	8162386	81.62
1	.00071	99069	71	99033	7293977	73.63	1	.00059	99254	58	99225	8063043	81.24
2	.00052	98998	51	98972	7194943	72.68	2	.00036	99196	36	99178	7963818	80.28
3	.00040	98947	40	98927	7095971	71.72	3	.00027	99160	27	99146	7864641	79.31
4	.00033	98907	33	98890	6997045	70.74	4	.00022	99133	22	99122	7765495	78.33
5	.00027	98874	27	98861	6898154	69.77	5	.00019	99111	19	99102	7666373	77.35
6	.00023	98847	23	98836	6799294	68.79	6	.00017	99092	17	99084	7567271	76.37
7	.00020	98824	20	98814	6700458	67.80	7	.00015	99076	15	99068	7468187	75.38
8	.00017	98804	17	98796	6601644	66.82	8	.00014	99060	14	99053	7369119	74.39
9	.00014	98787	14	98780	6502848	65.83	9	.00013	99046	13	99039	7270066	73.40
10	.00013	98773	12	98767	6404069	64.84	10	.00013	99033	13	99026	7171026	72.41
11	.00014	98760	14	98753	6305302	63.84	11	.00013	99020	13	99013	7072000	71.42
12	.00021	98746	21	98736	6206549	62.85	12	.00015	99007	15	98999	6972987	70.43
13	.00035	98726	35	98708	6107813	61.87	13	.00020	98991	20	98982	6873988	69.44
14	.00054	98691	53	98664	6009104	60.89	14	.00025	98972	25	98959	6775006	68.45
15	.00076	98638	75	98600	5910440	59.92	15	.00032	98947	31	98931	6676047	67.47
16	.00096	98563	94	98516	5811839	58.97	16	.00037	98916	37	98897	6577116	66.49
17	.00113	98469	111	98413	5713323	58.02	17	.00042	98878	42	98858	6478219	65.52
18	.00124	98358	122	98297	5614910	57.09	18	.00045	98837	45	98814	6379361	64.54
19	.00131	98236	128	98172	5516613	56.16	19	.00047	98792	46	98769	6280547	63.57
20	.00136	98108	134	98041	5418441	55.23	20	.00048	98746	47	98722	6181778	62.60
21	.00142	97974	139	97904	5320401	54.30	21	.00049	98699	49	98674	6083056	61.63
22	.00148	97835	145	97762	5222496	53.38	22	.00050	98650	50	98625	5984381	60.66
23	.00155	97690	151	97614	5124734	52.46	23	.00051	98600	50	98575	5885756	59.69
24	.00162	97538	158	97459	5027121	51.54	24	.00051	98550	51	98525	5787181	58.72
25	.00169	97380	164	97298	4929661	50.62	25	.00052	98499	51	98474	5688656	57.75
26	.00174	97216	169	97131	4832363	49.71	26	.00052	98448	52	98422	5590183	56.78
27	.00175	97046	170	96961	4735232	48.79	27	.00052	98397	51	98371	5491760	55.81
28	.00170	96876	165	96794	4638271	47.88	28	.00052	98345	51	98320	5393390	54.84
29	.00161	96712	156	96634	4541477	46.96	29	.00051	98294	50	98269	5295070	53.87
30	.00151	96556	146	96483	4444843	46.03	30	.00051	98244	50	98219	5196801	52.90
31	.00143	96410	137	96341	4348360	45.10	31	.00051	98194	50	98170	5098581	51.92
32	.00138	96273	133	96206	4252019	44.17	32	.00051	98145	50	98119	5000412	50.95
33	.00138	96140	133	96074	4155812	43.23	33	.00052	98094	51	98069	4902293	49.98
34	.00143	96007	137	95939	4059739	42.29	34	.00054	98043	53	98017	4804224	49.00
35	.00150	95870	143	95799	3963800	41.35	35	.00056	97991	55	97963	4706207	48.03
36	.00157	95727	150	95652	3868002	40.41	36	.00059	97936	58	97907	4608244	47.05
37	.00166	95576	159	95497	3772350	39.47	37	.00065	97878	64	97846	4510337	46.08
38	.00176	95417	168	95333	3676853	38.53	38	.00075	97814	73	97778	4412491	45.11
39	.00188	95249	179	95160	3581520	37.60	39	.00087	97741	85	97698	4314713	44.14

Table 31. Calendar Year 2010 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$
40	.00202	95070	193	94974	3486360	36.67	40	.00102	97656	100	97606	4217015	43.18
41	.00220	94877	209	94773	3391387	35.74	41	.00117	97556	115	97499	4119409	42.23
42	.00241	94668	228	94554	3296614	34.82	42	.00133	97441	129	97377	4021910	41.28
43	.00266	94440	251	94314	3202060	33.91	43	.00147	97312	143	97241	3924533	40.33
44	.00294	94189	277	94050	3107745	32.99	44	.00161	97170	156	97091	3827292	39.39
45	.00325	93912	305	93760	3013695	32.09	45	.00176	97013	171	96928	3730201	38.45
46	.00359	93607	336	93439	2919935	31.19	46	.00194	96842	188	96748	3633273	37.52
47	.00400	93271	373	93085	2826496	30.30	47	.00215	96654	207	96550	3536525	36.59
48	.00449	92898	417	92689	2733412	29.42	48	.00238	96447	230	96332	3439975	35.67
49	.00505	92481	467	92247	2640722	28.55	49	.00265	96217	255	96089	3343643	34.75
50	.00569	92013	523	91752	2548475	27.70	50	.00295	95962	283	95821	3247553	33.84
51	.00635	91490	581	91200	2456724	26.85	51	.00327	95679	313	95522	3151733	32.94
52	.00694	90909	631	90594	2365524	26.02	52	.00361	95366	344	95194	3056211	32.05
53	.00742	90279	670	89944	2274930	25.20	53	.00394	95022	375	94834	2961017	31.16
54	.00786	89608	704	89256	2184987	24.38	54	.00429	94647	406	94444	2866183	30.28
55	.00834	88904	742	88533	2095730	23.57	55	.00466	94241	439	94021	2771739	29.41
56	.00895	88163	789	87768	2007197	22.77	56	.00509	93801	477	93563	2677718	28.55
57	.00971	87373	849	86949	1919429	21.97	57	.00561	93324	523	93062	2584155	27.69
58	.01066	86525	922	86063	1832480	21.18	58	.00623	92801	578	92512	2491093	26.84
59	.01178	85602	1008	85098	1746417	20.40	59	.00695	92223	641	91903	2398581	26.01
60	.01300	84594	1099	84044	1661318	19.64	60	.00772	91582	707	91229	2306678	25.19
61	.01434	83495	1197	82896	1577274	18.89	61	.00851	90876	774	90489	2215449	24.38
62	.01593	82298	1311	81642	1494378	18.16	62	.00934	90102	842	89681	2124960	23.58
63	.01780	80987	1442	80266	1412736	17.44	63	.01019	89260	910	88806	2035279	22.80
64	.01992	79545	1584	78753	1332470	16.75	64	.01107	88351	978	87862	1946474	22.03
65	.02224	77961	1734	77094	1253717	16.08	65	.01203	87373	1051	86847	1858612	21.27
66	.02465	76227	1879	75287	1176623	15.44	66	.01303	86322	1125	85759	1771765	20.53
67	.02702	74348	2009	73344	1101336	14.81	67	.01400	85197	1192	84601	1686006	19.79
68	.02927	72339	2117	71281	1027992	14.21	68	.01490	84004	1251	83379	1601405	19.06
69	.03150	70222	2212	69116	956712	13.62	69	.01578	82753	1306	82100	1518026	18.34
70	.03386	68010	2303	66858	887596	13.05	70	.01677	81447	1366	80764	1435926	17.63
71	.03648	65707	2397	64509	820738	12.49	71	.01791	80081	1435	79364	1355161	16.92
72	.03932	63310	2490	62065	756229	11.94	72	.01915	78647	1506	77894	1275797	16.22
73	.04245	60820	2582	59530	694164	11.41	73	.02048	77141	1580	76351	1197904	15.53
74	.04584	58239	2670	56904	634634	10.90	74	.02197	75560	1660	74730	1121553	14.84
75	.04957	55569	2754	54192	577730	10.40	75	.02370	73900	1751	73025	1046823	14.17
76	.05356	52815	2829	51400	523539	9.91	76	.02571	72149	1855	71222	973798	13.50
77	.05773	49986	2886	48543	472138	9.45	77	.02799	70294	1968	69310	902576	12.84
78	.06207	47100	2924	45638	423595	8.99	78	.03057	68326	2089	67282	833266	12.20
79	.06666	44176	2945	42704	377957	8.56	79	.03350	66237	2219	65128	765984	11.56

Table 31. Calendar Year 2010 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$o_e(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$o_e(x)$
80	.07152	41232	2949	39757	335253	8.13	80	.03695	64018	2366	62836	700856	10.95
81	.07687	38283	2943	36811	295496	7.72	81	.04089	61653	2521	60392	638021	10.35
82	.08300	35340	2933	33873	258685	7.32	82	.04514	59132	2670	57797	577628	9.77
83	.09004	32407	2918	30948	224811	6.94	83	.04970	56463	2806	55060	519831	9.21
84	.09785	29489	2885	28046	193863	6.57	84	.05471	53656	2936	52189	464771	8.66
85	.10614	26604	2824	25192	165817	6.23	85	.06041	50721	3064	49189	412583	8.13
86	.11472	23780	2728	22416	140625	5.91	86	.06700	47657	3193	46060	363394	7.63
87	.12344	21052	2599	19753	118209	5.62	87	.07461	44464	3317	42805	317334	7.14
88	.13227	18453	2441	17233	98457	5.34	88	.08330	41146	3427	39433	274529	6.67
89	.14128	16012	2262	14881	81224	5.07	89	.09309	37719	3511	35963	235096	6.23
90	.15053	13750	2070	12715	66343	4.82	90	.10395	34208	3556	32430	199133	5.82
91	.16012	11680	1870	10745	53627	4.59	91	.11586	30652	3551	28876	166703	5.44
92	.17014	9810	1669	8976	42882	4.37	92	.12877	27101	3490	25356	137827	5.09
93	.18067	8141	1471	7406	33906	4.16	93	.14265	23611	3368	21927	112471	4.76
94	.19180	6670	1279	6031	26500	3.97	94	.15744	20243	3187	18649	90545	4.47
95	.20278	5391	1093	4844	20470	3.80	95	.17208	17056	2935	15588	71895	4.22
96	.21351	4298	918	3839	15625	3.64	96	.18623	14121	2630	12806	56307	3.99
97	.22390	3380	757	3002	11786	3.49	97	.19954	11491	2293	10345	43501	3.79
98	.23382	2623	613	2317	8785	3.35	98	.21166	9198	1947	8225	33156	3.60
99	.24317	2010	489	1766	6468	3.22	99	.22224	7251	1612	6446	24932	3.44
100	.25290	1521	385	1329	4703	3.09	100	.23336	5640	1316	4982	18486	3.28
101	.26301	1136	299	987	3374	2.97	101	.24502	4324	1059	3794	13504	3.12
102	.27353	838	229	723	2387	2.85	102	.25727	3264	840	2844	9710	2.97
103	.28448	608	173	522	1664	2.73	103	.27014	2424	655	2097	6866	2.83
104	.29586	435	129	371	1142	2.62	104	.28365	1770	502	1519	4769	2.70
105	.30769	307	94	259	771	2.51	105	.29783	1268	378	1079	3250	2.56
106	.32000	212	68	178	511	2.41	106	.31272	890	278	751	2172	2.44
107	.33280	144	48	120	333	2.31	107	.32835	612	201	511	1421	2.32
108	.34611	96	33	80	213	2.21	108	.34477	411	142	340	909	2.21
109	.35995	63	23	52	133	2.11	109	.35995	269	97	221	569	2.11
110	.37435	40	15	33	82	2.02	110	.37435	172	65	140	348	2.02
111	.38933	25	10	20	49	1.93	111	.38933	108	42	87	208	1.93
112	.40490	15	6	12	28	1.85	112	.40490	66	27	53	122	1.85
113	.42109	9	4	7	16	1.76	113	.42109	39	16	31	69	1.76
114	.43794	5	2	4	9	1.68	114	.43794	23	10	18	38	1.68
115	.45546	3	1	2	5	1.61	115	.45546	13	6	10	20	1.61
116	.47367	2	1	1	2	1.53	116	.47367	7	3	5	11	1.53
117	.49262	1	0	1	1	1.46	117	.49262	4	2	3	5	1.46
118	.51232	0	0	0	1	1.39	118	.51232	2	1	1	3	1.39
119	.53282	0	0	0	0	1.32	119	.53282	1	0	1	1	1.32

Table 3m. Calendar Year 2020 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
0	.00881	100000	881	99220	7441726	74.42	0	.00703	100000	703	99380	8218200	82.18
1	.00070	99119	69	99085	7342506	74.08	1	.00057	99297	57	99268	8118820	81.76
2	.00051	99050	50	99025	7243421	73.13	2	.00035	99240	35	99222	8019552	80.81
3	.00039	99000	39	98980	7144396	72.17	3	.00026	99205	26	99192	7920329	79.84
4	.00032	98961	32	98945	7045416	71.19	4	.00021	99179	21	99168	7821137	78.86
5	.00026	98929	26	98916	6946471	70.22	5	.00018	99158	18	99149	7721969	77.88
6	.00023	98902	23	98891	6847556	69.24	6	.00016	99140	16	99131	7622820	76.89
7	.00020	98880	20	98870	6748665	68.25	7	.00015	99123	15	99116	7523689	75.90
8	.00017	98860	17	98851	6649795	67.26	8	.00014	99108	14	99101	7424574	74.91
9	.00014	98843	14	98836	6550944	66.28	9	.00013	99094	13	99088	7325472	73.92
10	.00012	98829	12	98823	6452108	65.29	10	.00013	99081	12	99075	7226385	72.93
11	.00014	98817	14	98810	6353285	64.29	11	.00013	99069	13	99062	7127310	71.94
12	.00021	98803	21	98793	6254476	63.30	12	.00015	99056	15	99048	7028248	70.95
13	.00035	98782	34	98765	6155683	62.32	13	.00019	99041	19	99031	6929199	69.96
14	.00054	98748	53	98721	6056918	61.34	14	.00025	99022	25	99009	6830168	68.98
15	.00075	98695	74	98658	5958196	60.37	15	.00031	98997	31	98981	6731159	67.99
16	.00095	98621	94	98574	5859539	59.41	16	.00037	98966	37	98947	6632178	67.01
17	.00112	98527	110	98471	5760965	58.47	17	.00042	98929	42	98908	6533231	66.04
18	.00123	98416	121	98355	5662494	57.54	18	.00045	98887	44	98865	6434323	65.07
19	.00130	98295	128	98231	5564138	56.61	19	.00046	98843	46	98820	6335457	64.10
20	.00136	98167	133	98100	5465908	55.68	20	.00048	98797	47	98774	6236637	63.13
21	.00142	98034	139	97964	5367807	54.75	21	.00049	98750	48	98726	6137864	62.16
22	.00148	97895	145	97822	5269843	53.83	22	.00050	98702	49	98677	6039138	61.19
23	.00154	97750	151	97675	5172021	52.91	23	.00051	98653	50	98628	5940460	60.22
24	.00161	97599	157	97521	5074347	51.99	24	.00051	98603	50	98578	5841832	59.25
25	.00168	97442	164	97360	4976826	51.07	25	.00051	98553	51	98528	5743254	58.28
26	.00173	97279	168	97194	4879466	50.16	26	.00052	98502	51	98477	5644727	57.31
27	.00174	97110	169	97026	4782271	49.25	27	.00052	98451	51	98426	5546250	56.33
28	.00169	96942	164	96860	4685245	48.33	28	.00051	98401	50	98375	5447824	55.36
29	.00160	96778	155	96701	4588386	47.41	29	.00050	98350	49	98326	5349448	54.39
30	.00150	96623	144	96551	4491685	46.49	30	.00050	98301	49	98277	5251123	53.42
31	.00141	96479	136	96411	4395134	45.56	31	.00050	98252	49	98228	5152846	52.45
32	.00136	96343	131	96277	4298723	44.62	32	.00050	98203	49	98178	5054618	51.47
33	.00136	96211	131	96146	4202446	43.68	33	.00051	98154	50	98129	4956440	50.50
34	.00141	96080	135	96013	4106300	42.74	34	.00053	98104	52	98078	4858311	49.52
35	.00147	95945	141	95874	4010288	41.80	35	.00054	98052	53	98026	4760233	48.55
36	.00155	95804	148	95729	3914413	40.86	36	.00057	97999	56	97971	4662208	47.57
37	.00163	95655	156	95577	3818684	39.92	37	.00063	97943	62	97912	4564237	46.60
38	.00173	95499	165	95417	3723107	38.99	38	.00073	97880	71	97845	4466326	45.63
39	.00184	95334	175	95246	3627690	38.05	39	.00085	97809	83	97768	4368481	44.66

Table 3m. Calendar Year 2020 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
40	.00197	95159	188	95065	3532444	37.12	40	.00099	97726	97	97678	4270713	43.70
41	.00214	94971	204	94869	3437379	36.19	41	.00114	97630	111	97574	4173035	42.74
42	.00234	94767	222	94656	3342510	35.27	42	.00128	97519	125	97456	4075461	41.79
43	.00258	94545	244	94423	3247854	34.35	43	.00142	97393	138	97324	3978005	40.84
44	.00285	94301	269	94167	3153430	33.44	44	.00156	97255	151	97179	3880681	39.90
45	.00314	94033	296	93885	3059263	32.53	45	.00170	97104	165	97021	3783502	38.96
46	.00347	93737	326	93574	2965379	31.64	46	.00188	96938	182	96847	3686481	38.03
47	.00387	93411	361	93231	2871805	30.74	47	.00207	96756	200	96656	3589634	37.10
48	.00434	93050	404	92848	2778574	29.86	48	.00230	96556	222	96445	3492978	36.18
49	.00488	92646	452	92420	2685726	28.99	49	.00256	96334	246	96211	3396533	35.26
50	.00549	92194	506	91941	2593306	28.13	50	.00284	96088	273	95951	3300322	34.35
51	.00612	91688	561	91407	2501365	27.28	51	.00316	95814	302	95663	3204371	33.44
52	.00669	91127	610	90822	2409957	26.45	52	.00348	95512	332	95346	3108708	32.55
53	.00715	90517	647	90193	2319135	25.62	53	.00379	95180	361	95000	3013362	31.66
54	.00757	89870	680	89530	2228942	24.80	54	.00413	94819	392	94623	2918362	30.78
55	.00803	89189	716	88831	2139412	23.99	55	.00449	94427	424	94215	2823739	29.90
56	.00861	88473	762	88092	2050581	23.18	56	.00490	94004	460	93773	2729523	29.04
57	.00934	87711	819	87302	1962488	22.37	57	.00539	93543	504	93291	2635750	28.18
58	.01025	86892	890	86447	1875187	21.58	58	.00599	93039	557	92760	2542459	27.33
59	.01133	86002	974	85515	1788740	20.80	59	.00668	92481	618	92173	2449699	26.49
60	.01250	85028	1063	84496	1703225	20.03	60	.00742	91864	681	91523	2357527	25.66
61	.01378	83965	1157	83386	1618729	19.28	61	.00818	91183	746	90810	2266004	24.85
62	.01531	82808	1268	82174	1535343	18.54	62	.00897	90437	811	90031	2175194	24.05
63	.01711	81540	1396	80842	1453169	17.82	63	.00979	89626	877	89187	2085163	23.27
64	.01914	80144	1534	79377	1372327	17.12	64	.01062	88749	943	88277	1995976	22.49
65	.02138	78610	1680	77770	1292950	16.45	65	.01154	87806	1013	87299	1907698	21.73
66	.02369	76929	1822	76018	1215181	15.80	66	.01249	86793	1084	86251	1820399	20.97
67	.02596	75107	1950	74132	1139162	15.17	67	.01341	85709	1149	85134	1734148	20.23
68	.02812	73157	2057	72129	1065030	14.56	68	.01426	84559	1206	83956	1649014	19.50
69	.03026	71100	2151	70024	992901	13.96	69	.01510	83353	1259	82724	1565058	18.78
70	.03253	68949	2243	67827	922877	13.38	70	.01604	82095	1317	81436	1482334	18.06
71	.03503	66706	2337	65537	855050	12.82	71	.01712	80778	1383	80087	1400897	17.34
72	.03776	64369	2431	63154	789512	12.27	72	.01828	79395	1452	78669	1320811	16.64
73	.04075	61938	2524	60677	726358	11.73	73	.01954	77944	1523	77182	1242142	15.94
74	.04400	59415	2614	58108	665682	11.20	74	.02094	76421	1600	75620	1164960	15.24
75	.04755	56801	2701	55450	607574	10.70	75	.02256	74820	1688	73976	1089339	14.56
76	.05137	54100	2779	52710	552124	10.21	76	.02445	73132	1788	72238	1015363	13.88
77	.05536	51321	2841	49900	499414	9.73	77	.02660	71344	1898	70395	943125	13.22
78	.05952	48479	2886	47037	449514	9.27	78	.02903	69446	2016	68438	872729	12.57
79	.06393	45594	2915	44136	402477	8.83	79	.03179	67430	2144	66358	804291	11.93

Table 3m. Calendar Year 2020 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$
80	.06858	42679	2927	41216	358341	8.40	80	.03505	65286	2288	64142	737933	11.30
81	.07370	39752	2930	38287	317125	7.98	81	.03876	62998	2441	61777	673791	10.70
82	.07956	36822	2930	35357	278838	7.57	82	.04277	60557	2590	59262	612013	10.11
83	.08629	33892	2925	32430	243481	7.18	83	.04706	57967	2728	56603	552751	9.54
84	.09374	30968	2903	29516	211051	6.82	84	.05178	55239	2860	53809	496148	8.98
85	.10165	28065	2853	26639	181534	6.47	85	.05715	52379	2994	50882	442339	8.44
86	.10981	25212	2769	23828	154896	6.14	86	.06336	49385	3129	47821	391457	7.93
87	.11810	22444	2651	21118	131068	5.84	87	.07052	46257	3262	44626	343636	7.43
88	.12649	19793	2504	18541	109949	5.55	88	.07872	42994	3385	41302	299010	6.95
89	.13503	17289	2335	16122	91408	5.29	89	.08795	39610	3484	37868	257708	6.51
90	.14379	14955	2150	13880	75286	5.03	90	.09821	36126	3548	34352	219840	6.09
91	.15286	12804	1957	11826	61407	4.80	91	.10945	32578	3566	30795	185488	5.69
92	.16233	10847	1761	9967	49581	4.57	92	.12166	29013	3530	27248	154692	5.33
93	.17228	9086	1565	8304	39614	4.36	93	.13478	25483	3435	23766	127445	5.00
94	.18278	7521	1375	6834	31311	4.16	94	.14878	22048	3280	20408	103679	4.70
95	.19315	6146	1187	5553	24477	3.98	95	.16264	18768	3052	17242	83271	4.44
96	.20330	4959	1008	4455	18924	3.82	96	.17603	15716	2766	14332	66029	4.20
97	.21314	3951	842	3530	14469	3.66	97	.18863	12949	2443	11728	51696	3.99
98	.22256	3109	692	2763	10940	3.52	98	.20010	10507	2102	9455	39969	3.80
99	.23146	2417	559	2137	8177	3.38	99	.21010	8404	1766	7521	30513	3.63
100	.24072	1857	447	1634	6039	3.25	100	.22061	6638	1464	5906	22992	3.46
101	.25035	1410	353	1234	4406	3.12	101	.23164	5174	1198	4575	17086	3.30
102	.26036	1057	275	920	3172	3.00	102	.24322	3976	967	3492	12511	3.15
103	.27078	782	212	676	2252	2.88	103	.25538	3009	768	2624	9019	3.00
104	.28161	570	161	490	1576	2.76	104	.26815	2240	601	1940	6394	2.85
105	.29287	410	120	350	1086	2.65	105	.28156	1640	462	1409	4455	2.72
106	.30459	290	88	246	736	2.54	106	.29563	1178	348	1004	3046	2.59
107	.31677	201	64	170	491	2.44	107	.31041	830	258	701	2042	2.46
108	.32944	138	45	115	321	2.33	108	.32593	572	186	479	1341	2.34
109	.34262	92	32	76	206	2.23	109	.34223	386	132	320	862	2.24
110	.35632	61	22	50	130	2.14	110	.35632	254	90	208	543	2.14
111	.37057	39	14	32	80	2.05	111	.37057	163	61	133	334	2.05
112	.38540	25	9	20	48	1.96	112	.38540	103	40	83	201	1.96
113	.40081	15	6	12	28	1.87	113	.40081	63	25	51	118	1.87
114	.41685	9	4	7	16	1.79	114	.41685	38	16	30	68	1.79
115	.43352	5	2	4	9	1.70	115	.43352	22	10	17	38	1.70
116	.45086	3	1	2	5	1.63	116	.45086	13	6	10	20	1.63
117	.46890	2	1	1	3	1.55	117	.46890	7	3	5	11	1.55
118	.48765	1	0	1	1	1.48	118	.48765	4	2	3	5	1.48
119	.50716	0	0	0	1	1.41	119	.50716	2	1	1	3	1.41

Table 3n. Calendar Year 2030 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
0	.00834	100000	834	99262	7489719	74.90	0	.00664	100000	664	99415	8273646	82.74
1	.00068	99166	68	99132	7390457	74.53	1	.00056	99336	55	99309	8174231	82.29
2	.00050	99099	49	99074	7291325	73.58	2	.00034	99281	34	99264	8074922	81.33
3	.00039	99049	38	99030	7192251	72.61	3	.00026	99247	26	99234	7975658	80.36
4	.00032	99011	31	98995	7093221	71.64	4	.00021	99221	20	99211	7876424	79.38
5	.00026	98980	26	98967	6994226	70.66	5	.00018	99201	18	99192	7777213	78.40
6	.00023	98954	22	98942	6895259	69.68	6	.00016	99183	16	99175	7678022	77.41
7	.00020	98931	20	98921	6796317	68.70	7	.00015	99167	15	99159	7578847	76.43
8	.00017	98912	17	98903	6697395	67.71	8	.00014	99152	14	99145	7479688	75.44
9	.00014	98895	14	98888	6598492	66.72	9	.00013	99138	13	99132	7380543	74.45
10	.00012	98881	12	98875	6499605	65.73	10	.00012	99125	12	99119	7281411	73.46
11	.00014	98869	13	98862	6400730	64.74	11	.00013	99113	13	99107	7182292	72.47
12	.00020	98855	20	98845	6301868	63.75	12	.00015	99100	15	99093	7083185	71.47
13	.00034	98835	34	98818	6203023	62.76	13	.00019	99085	19	99076	6984093	70.49
14	.00053	98801	53	98775	6104205	61.78	14	.00025	99067	24	99054	6885017	69.50
15	.00075	98748	74	98711	6005431	60.82	15	.00031	99042	31	99027	6785962	68.52
16	.00095	98674	94	98627	5906719	59.86	16	.00037	99011	37	98993	6686936	67.54
17	.00112	98581	110	98526	5808092	58.92	17	.00042	98975	41	98954	6587942	66.56
18	.00123	98471	121	98410	5709566	57.98	18	.00045	98934	44	98912	6488988	65.59
19	.00130	98349	128	98286	5611156	57.05	19	.00046	98890	45	98867	6390077	64.62
20	.00135	98222	133	98155	5512871	56.13	20	.00047	98844	47	98821	6291210	63.65
21	.00141	98089	139	98020	5414715	55.20	21	.00048	98797	48	98773	6192389	62.68
22	.00147	97951	144	97878	5316696	54.28	22	.00049	98750	49	98725	6093616	61.71
23	.00154	97806	150	97731	5218817	53.36	23	.00050	98701	49	98676	5994891	60.74
24	.00160	97656	156	97578	5121086	52.44	24	.00051	98651	50	98626	5896214	59.77
25	.00167	97500	163	97418	5023508	51.52	25	.00051	98602	50	98576	5797588	58.80
26	.00172	97337	167	97253	4926090	50.61	26	.00051	98551	50	98526	5699012	57.83
27	.00173	97170	168	97086	4828836	49.69	27	.00051	98501	50	98476	5600485	56.86
28	.00168	97002	162	96921	4731751	48.78	28	.00050	98451	49	98426	5502009	55.89
29	.00159	96839	153	96763	4634830	47.86	29	.00049	98402	49	98377	5403583	54.91
30	.00148	96686	143	96614	4538067	46.94	30	.00049	98353	48	98329	5305206	53.94
31	.00140	96543	135	96475	4441453	46.01	31	.00049	98305	48	98281	5206877	52.97
32	.00135	96408	130	96343	4344978	45.07	32	.00049	98257	49	98232	5108597	51.99
33	.00135	96278	130	96213	4248635	44.13	33	.00050	98208	49	98183	5010364	51.02
34	.00139	96148	134	96081	4152422	43.19	34	.00051	98159	50	98134	4912181	50.04
35	.00145	96015	139	95945	4056340	42.25	35	.00053	98108	52	98082	4814047	49.07
36	.00152	95875	146	95802	3960395	41.31	36	.00056	98056	55	98029	4715965	48.09
37	.00160	95729	154	95653	3864593	40.37	37	.00062	98001	61	97971	4617936	47.12
38	.00169	95576	162	95495	3768941	39.43	38	.00071	97941	69	97906	4519966	46.15
39	.00180	95414	172	95328	3673446	38.50	39	.00083	97871	81	97831	4422060	45.18

Table 3n. Calendar Year 2030 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$\overset{o}{e}(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\overset{o}{e}(x)$
40	.00193	95242	184	95150	3578118	37.57	40	.00096	97791	94	97744	4324229	44.22
41	.00209	95058	199	94959	3482968	36.64	41	.00110	97697	108	97643	4226485	43.26
42	.00228	94860	216	94752	3388008	35.72	42	.00125	97589	121	97528	4128843	42.31
43	.00251	94643	237	94525	3293257	34.80	43	.00138	97467	134	97400	4031315	41.36
44	.00277	94406	261	94276	3198732	33.88	44	.00151	97333	147	97260	3933915	40.42
45	.00304	94145	287	94002	3104456	32.98	45	.00165	97186	160	97106	3836655	39.48
46	.00336	93859	315	93701	3010454	32.07	46	.00181	97026	176	96938	3739549	38.54
47	.00374	93543	350	93368	2916753	31.18	47	.00200	96850	194	96753	3642611	37.61
48	.00420	93193	391	92998	2823385	30.30	48	.00222	96656	215	96549	3545858	36.69
49	.00471	92802	437	92584	2730387	29.42	49	.00247	96441	238	96323	3449309	35.77
50	.00530	92365	490	92120	2637804	28.56	50	.00274	96204	264	96072	3352987	34.85
51	.00591	91875	543	91604	2545683	27.71	51	.00304	95940	292	95794	3256915	33.95
52	.00646	91332	590	91037	2454079	26.87	52	.00335	95648	320	95488	3161121	33.05
53	.00690	90743	626	90429	2363042	26.04	53	.00366	95328	349	95153	3065634	32.16
54	.00730	90116	657	89788	2272613	25.22	54	.00398	94979	378	94790	2970480	31.28
55	.00773	89459	692	89113	2182825	24.40	55	.00432	94601	409	94397	2875690	30.40
56	.00829	88767	736	88399	2093712	23.59	56	.00472	94192	444	93970	2781293	29.53
57	.00899	88031	791	87636	2005312	22.78	57	.00519	93748	487	93505	2687323	28.67
58	.00986	87240	860	86810	1917677	21.98	58	.00577	93262	538	92993	2593818	27.81
59	.01090	86380	941	85909	1830867	21.20	59	.00642	92724	596	92426	2500826	26.97
60	.01202	85439	1027	84925	1744958	20.42	60	.00713	92128	657	91800	2408400	26.14
61	.01326	84411	1120	83852	1660033	19.67	61	.00786	91471	719	91112	2316600	25.33
62	.01473	83292	1227	82678	1576181	18.92	62	.00862	90752	782	90361	2225488	24.52
63	.01647	82065	1351	81389	1493503	18.20	63	.00940	89970	846	89547	2135127	23.73
64	.01842	80713	1486	79970	1412114	17.50	64	.01020	89124	909	88670	2045580	22.95
65	.02056	79227	1629	78413	1332144	16.81	65	.01107	88215	977	87727	1956910	22.18
66	.02278	77598	1768	76714	1253731	16.16	66	.01198	87239	1045	86716	1869183	21.43
67	.02496	75830	1893	74884	1177017	15.52	67	.01286	86193	1108	85639	1782467	20.68
68	.02704	73938	1999	72938	1102133	14.91	68	.01367	85085	1163	84504	1696827	19.94
69	.02909	71938	2093	70892	1029195	14.31	69	.01446	83923	1213	83316	1612323	19.21
70	.03127	69846	2184	68754	958303	13.72	70	.01535	82709	1269	82074	1529008	18.49
71	.03367	67662	2278	66523	889550	13.15	71	.01637	81440	1333	80773	1446933	17.77
72	.03628	65384	2372	64197	823027	12.59	72	.01747	80107	1399	79407	1366160	17.05
73	.03914	63011	2466	61778	758830	12.04	73	.01865	78708	1468	77974	1286753	16.35
74	.04226	60545	2558	59266	697051	11.51	74	.01996	77240	1542	76469	1208779	15.65
75	.04566	57987	2647	56663	637786	11.00	75	.02149	75698	1627	74884	1132310	14.96
76	.04930	55339	2728	53975	581123	10.50	76	.02327	74071	1723	73209	1057426	14.28
77	.05313	52611	2795	51213	527148	10.02	77	.02529	72348	1830	71433	984216	13.60
78	.05712	49815	2846	48393	475935	9.55	78	.02758	70518	1945	69545	912784	12.94
79	.06135	46970	2882	45529	427542	9.10	79	.03019	68573	2070	67538	843239	12.30

Table 3n. Calendar Year 2030 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$e(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$e(x)$
80	.06582	44088	2902	42637	382013	8.66	80	.03326	66502	2212	65397	775701	11.66
81	.07072	41186	2913	39730	339376	8.24	81	.03675	64291	2363	63109	710305	11.05
82	.07633	38273	2921	36813	299646	7.83	82	.04054	61928	2510	60673	647195	10.45
83	.08276	35352	2926	33889	262834	7.43	83	.04458	59417	2649	58093	586523	9.87
84	.08987	32427	2914	30970	228944	7.06	84	.04903	56769	2783	55377	528430	9.31
85	.09741	29513	2875	28075	197975	6.71	85	.05409	53985	2920	52525	473053	8.76
86	.10519	26638	2802	25237	169900	6.38	86	.05994	51065	3061	49535	420528	8.24
87	.11308	23836	2695	22488	144663	6.07	87	.06669	48004	3202	46404	370993	7.73
88	.12105	21140	2559	19861	122175	5.78	88	.07442	44803	3334	43136	324589	7.24
89	.12915	18581	2400	17381	102314	5.51	89	.08314	41468	3447	39745	281454	6.79
90	.13744	16182	2224	15070	84933	5.25	90	.09281	38021	3529	36257	241709	6.36
91	.14603	13957	2038	12938	69863	5.01	91	.10344	34492	3568	32708	205452	5.96
92	.15497	11919	1847	10996	56925	4.78	92	.11497	30924	3555	29147	172744	5.59
93	.16436	10072	1656	9244	45929	4.56	93	.12738	27369	3486	25626	143598	5.25
94	.17427	8417	1467	7683	36685	4.36	94	.14064	23882	3359	22203	117972	4.94
95	.18407	6950	1279	6310	29001	4.17	95	.15376	20524	3156	18946	95769	4.67
96	.19368	5671	1098	5121	22691	4.00	96	.16643	17368	2891	15923	76823	4.42
97	.20300	4572	928	4108	17570	3.84	97	.17836	14477	2582	13186	60901	4.21
98	.21194	3644	772	3258	13462	3.69	98	.18920	11895	2251	10770	47714	4.01
99	.22042	2872	633	2555	10204	3.55	99	.19866	9645	1916	8687	36944	3.83
100	.22923	2239	513	1982	7648	3.42	100	.20860	7729	1612	6923	28258	3.66
101	.23840	1726	411	1520	5666	3.28	101	.21903	6116	1340	5447	21335	3.49
102	.24794	1314	326	1151	4146	3.15	102	.22998	4777	1099	4228	15889	3.33
103	.25786	988	255	861	2995	3.03	103	.24147	3678	888	3234	11661	3.17
104	.26817	734	197	635	2134	2.91	104	.25355	2790	707	2436	8427	3.02
105	.27890	537	150	462	1499	2.79	105	.26623	2083	554	1805	5991	2.88
106	.29005	387	112	331	1037	2.68	106	.27954	1528	427	1315	4185	2.74
107	.30165	275	83	233	706	2.57	107	.29351	1101	323	939	2871	2.61
108	.31372	192	60	162	472	2.46	108	.30819	778	240	658	1931	2.48
109	.32627	132	43	110	311	2.36	109	.32360	538	174	451	1273	2.37
110	.33932	89	30	74	200	2.26	110	.33932	364	124	302	822	2.26
111	.35289	59	21	48	127	2.16	111	.35289	240	85	198	520	2.16
112	.36701	38	14	31	78	2.07	112	.36701	156	57	127	322	2.07
113	.38169	24	9	19	48	1.98	113	.38169	99	38	80	195	1.98
114	.39696	15	6	12	28	1.89	114	.39696	61	24	49	115	1.89
115	.41284	9	4	7	16	1.81	115	.41284	37	15	29	66	1.81
116	.42935	5	2	4	9	1.72	116	.42935	22	9	17	37	1.72
117	.44652	3	1	2	5	1.64	117	.44652	12	5	10	20	1.64
118	.46438	2	1	1	3	1.57	118	.46438	7	3	5	11	1.57
119	.48296	1	0	1	1	1.49	119	.48296	4	2	3	5	1.49

Table 30. Calendar Year 2040 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
0	.00790	100000	790	99300	7537247	75.37	0	.00627	100000	627	99447	8328967	83.29
1	.00067	99210	66	99177	7437947	74.97	1	.00054	99373	54	99346	8229520	82.81
2	.00049	99144	48	99119	7338770	74.02	2	.00034	99319	33	99302	8130174	81.86
3	.00038	99095	38	99076	7239651	73.06	3	.00025	99285	25	99273	8030872	80.89
4	.00031	99058	31	99042	7140574	72.09	4	.00020	99260	20	99250	7931600	79.91
5	.00026	99027	25	99014	7041532	71.11	5	.00018	99240	17	99232	7832349	78.92
6	.00022	99002	22	98990	6942518	70.13	6	.00016	99223	16	99215	7733118	77.94
7	.00020	98979	19	98970	6843527	69.14	7	.00015	99207	15	99200	7633903	76.95
8	.00017	98960	17	98952	6744558	68.15	8	.00014	99192	13	99186	7534703	75.96
9	.00014	98943	14	98936	6645606	67.17	9	.00013	99179	12	99173	7435518	74.97
10	.00012	98929	12	98923	6546670	66.18	10	.00012	99166	12	99160	7336345	73.98
11	.00013	98917	13	98911	6447746	65.18	11	.00013	99154	12	99148	7237185	72.99
12	.00020	98904	20	98894	6348836	64.19	12	.00015	99142	14	99135	7138036	72.00
13	.00034	98884	34	98867	6249941	63.20	13	.00019	99128	19	99118	7038901	71.01
14	.00053	98850	52	98824	6151074	62.23	14	.00024	99109	24	99097	6939783	70.02
15	.00074	98798	74	98761	6052250	61.26	15	.00031	99085	31	99070	6840686	69.04
16	.00094	98725	93	98678	5953489	60.30	16	.00037	99054	36	99036	6741617	68.06
17	.00111	98631	110	98576	5854811	59.36	17	.00041	99018	41	98997	6642581	67.08
18	.00122	98522	120	98461	5756234	58.43	18	.00044	98977	44	98955	6543583	66.11
19	.00129	98401	127	98337	5657773	57.50	19	.00046	98933	45	98910	6444629	65.14
20	.00135	98274	132	98208	5559436	56.57	20	.00047	98887	46	98864	6345718	64.17
21	.00141	98141	138	98072	5461228	55.65	21	.00048	98841	48	98817	6246854	63.20
22	.00147	98003	144	97931	5363156	54.72	22	.00049	98793	49	98769	6148037	62.23
23	.00153	97860	150	97785	5265224	53.80	23	.00050	98745	49	98720	6049268	61.26
24	.00159	97710	156	97632	5167440	52.89	24	.00050	98696	49	98671	5950548	60.29
25	.00166	97554	162	97473	5069808	51.97	25	.00050	98646	50	98622	5851877	59.32
26	.00171	97392	166	97309	4972335	51.05	26	.00050	98597	50	98572	5753255	58.35
27	.00171	97226	167	97142	4875026	50.14	27	.00050	98547	49	98522	5654683	57.38
28	.00166	97059	161	96978	4777884	49.23	28	.00049	98498	49	98473	5556161	56.41
29	.00157	96898	152	96821	4680906	48.31	29	.00049	98449	48	98425	5457687	55.44
30	.00147	96745	142	96674	4584084	47.38	30	.00048	98401	47	98378	5359262	54.46
31	.00138	96603	134	96536	4487410	46.45	31	.00048	98354	48	98330	5260885	53.49
32	.00133	96469	128	96405	4390874	45.52	32	.00049	98306	48	98282	5162554	52.51
33	.00133	96341	128	96277	4294469	44.58	33	.00049	98259	48	98234	5064272	51.54
34	.00137	96213	132	96147	4198192	43.63	34	.00050	98210	49	98186	4966038	50.57
35	.00143	96081	137	96012	4102046	42.69	35	.00052	98161	51	98135	4867852	49.59
36	.00150	95943	144	95871	4006034	41.75	36	.00055	98110	54	98083	4769717	48.62
37	.00158	95800	151	95724	3910162	40.82	37	.00060	98056	59	98027	4671634	47.64
38	.00166	95649	159	95569	3814438	39.88	38	.00069	97997	68	97963	4573607	46.67
39	.00176	95490	168	95405	3718869	38.95	39	.00080	97930	79	97890	4475644	45.70

Table 30. Calendar Year 2040 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
40	.00188	95321	180	95232	3623464	38.01	40	.00093	97851	91	97805	4377754	44.74
41	.00204	95142	194	95045	3528232	37.08	41	.00107	97760	105	97707	4279948	43.78
42	.00222	94948	211	94842	3433188	36.16	42	.00121	97655	118	97596	4182241	42.83
43	.00244	94737	231	94622	3338345	35.24	43	.00134	97537	130	97472	4084645	41.88
44	.00268	94506	254	94380	3243723	34.32	44	.00146	97406	142	97335	3987174	40.93
45	.00295	94253	278	94114	3149344	33.41	45	.00160	97264	155	97187	3889838	39.99
46	.00326	93974	306	93821	3055230	32.51	46	.00176	97109	170	97024	3792652	39.06
47	.00362	93668	339	93499	2961409	31.62	47	.00194	96938	188	96845	3695628	38.12
48	.00406	93329	379	93140	2867910	30.73	48	.00215	96751	208	96647	3598784	37.20
49	.00455	92951	423	92739	2774770	29.85	49	.00238	96543	230	96428	3502137	36.28
50	.00512	92527	474	92290	2682031	28.99	50	.00265	96313	255	96186	3405708	35.36
51	.00571	92053	526	91790	2589741	28.13	51	.00293	96058	282	95918	3309522	34.45
52	.00623	91527	571	91242	2497951	27.29	52	.00323	95777	309	95622	3213605	33.55
53	.00666	90957	606	90654	2406709	26.46	53	.00352	95467	336	95299	3117983	32.66
54	.00704	90351	636	90033	2316055	25.63	54	.00384	95131	365	94949	3022684	31.77
55	.00745	89715	669	89381	2226022	24.81	55	.00416	94766	395	94569	2927735	30.89
56	.00799	89047	711	88691	2136641	23.99	56	.00454	94372	429	94157	2833166	30.02
57	.00866	88335	765	87953	2047950	23.18	57	.00500	93943	470	93708	2739009	29.16
58	.00949	87571	831	87155	1959997	22.38	58	.00555	93473	519	93214	2645301	28.30
59	.01049	86739	910	86284	1872842	21.59	59	.00618	92955	575	92667	2552087	27.46
60	.01158	85829	994	85332	1786558	20.82	60	.00686	92380	634	92063	2459420	26.62
61	.01277	84836	1083	84294	1701225	20.05	61	.00756	91746	694	91399	2367357	25.80
62	.01418	83752	1188	83158	1616931	19.31	62	.00829	91053	754	90675	2275957	25.00
63	.01585	82564	1309	81910	1533773	18.58	63	.00903	90298	816	89890	2185282	24.20
64	.01773	81256	1440	80535	1451863	17.87	64	.00980	89483	877	89044	2095392	23.42
65	.01979	79815	1579	79026	1371328	17.18	65	.01063	88606	942	88135	2006347	22.64
66	.02192	78236	1715	77378	1292302	16.52	66	.01150	87664	1008	87160	1918212	21.88
67	.02402	76521	1838	75602	1214924	15.88	67	.01233	86656	1068	86122	1831052	21.13
68	.02602	74683	1943	73711	1139322	15.26	68	.01310	85588	1121	85027	1744930	20.39
69	.02799	72740	2036	71722	1065611	14.65	69	.01385	84467	1170	83882	1659903	19.65
70	.03007	70704	2126	69641	993889	14.06	70	.01469	83297	1224	82685	1576021	18.92
71	.03238	68578	2221	67467	924248	13.48	71	.01566	82073	1285	81430	1493336	18.20
72	.03489	66357	2315	65200	856781	12.91	72	.01669	80788	1349	80114	1411905	17.48
73	.03763	64042	2410	62837	791582	12.36	73	.01781	79439	1415	78732	1331792	16.76
74	.04061	61632	2503	60381	728744	11.82	74	.01905	78024	1486	77281	1253060	16.06
75	.04387	59129	2594	57832	668364	11.30	75	.02048	76538	1568	75754	1175779	15.36
76	.04736	56536	2677	55197	610531	10.80	76	.02216	74970	1661	74140	1100025	14.67
77	.05103	53858	2748	52484	555335	10.31	77	.02406	73309	1764	72427	1025885	13.99
78	.05486	51110	2804	49708	502850	9.84	78	.02622	71545	1876	70607	953458	13.33
79	.05893	48306	2846	46883	453142	9.38	79	.02868	69669	1998	68670	882850	12.67

Table 3a. Calendar Year 2040 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
80	.06321	45460	2874	44023	406260	8.94	80	.03158	67671	2137	66602	814180	12.03
81	.06791	42586	2892	41140	362237	8.51	81	.03488	65534	2286	64391	747578	11.41
82	.07327	39694	2909	38240	321097	8.09	82	.03844	63248	2431	62033	683187	10.80
83	.07943	36785	2922	35325	282857	7.69	83	.04225	60817	2570	59532	621154	10.21
84	.08622	33864	2920	32404	247532	7.31	84	.04645	58247	2706	56895	561622	9.64
85	.09342	30944	2891	29499	215128	6.95	85	.05122	55542	2845	54119	504727	9.09
86	.10084	28053	2829	26639	185630	6.62	86	.05673	52697	2990	51202	450608	8.55
87	.10835	25225	2733	23858	158991	6.30	87	.06311	49707	3137	48139	399406	8.04
88	.11592	22492	2607	21188	135133	6.01	88	.07040	46570	3278	44931	351267	7.54
89	.12361	19884	2458	18655	113945	5.73	89	.07862	43292	3403	41590	306336	7.08
90	.13147	17426	2291	16281	95289	5.47	90	.08776	39889	3500	38138	264745	6.64
91	.13958	15135	2113	14079	79009	5.22	91	.09779	36388	3558	34609	226607	6.23
92	.14804	13023	1928	12059	64929	4.99	92	.10869	32830	3568	31046	191998	5.85
93	.15691	11095	1741	10224	52871	4.77	93	.12043	29261	3524	27499	160953	5.50
94	.16626	9354	1555	8576	42646	4.56	94	.13298	25737	3423	24026	133453	5.19
95	.17551	7799	1369	7114	34070	4.37	95	.14539	22315	3244	20693	109427	4.90
96	.18460	6430	1187	5837	26955	4.19	96	.15739	19070	3002	17570	88735	4.65
97	.19343	5243	1014	4736	21119	4.03	97	.16867	16069	2710	14714	71165	4.43
98	.20192	4229	854	3802	16383	3.87	98	.17894	13358	2390	12163	56452	4.23
99	.21000	3375	709	3021	12581	3.73	99	.18788	10968	2061	9938	44288	4.04
100	.21840	2666	582	2375	9560	3.59	100	.19728	8907	1757	8029	34351	3.86
101	.22713	2084	473	1847	7185	3.45	101	.20714	7150	1481	6410	26322	3.68
102	.23622	1611	380	1420	5338	3.31	102	.21750	5669	1233	5053	19912	3.51
103	.24567	1230	302	1079	3918	3.18	103	.22837	4436	1013	3930	14860	3.35
104	.25549	928	237	809	2839	3.06	104	.23979	3423	821	3013	10930	3.19
105	.26571	691	184	599	2029	2.94	105	.25178	2602	655	2275	7918	3.04
106	.27634	507	140	437	1430	2.82	106	.26437	1947	515	1690	5643	2.90
107	.28740	367	106	314	993	2.70	107	.27759	1432	398	1233	3953	2.76
108	.29889	262	78	223	679	2.59	108	.29147	1035	302	884	2720	2.63
109	.31085	183	57	155	456	2.49	109	.30604	733	224	621	1836	2.50
110	.32328	126	41	106	301	2.38	110	.32134	509	163	427	1215	2.39
111	.33621	86	29	71	195	2.28	111	.33621	345	116	287	788	2.28
112	.34966	57	20	47	124	2.18	112	.34966	229	80	189	501	2.18
113	.36365	37	13	30	77	2.09	113	.36365	149	54	122	312	2.09
114	.37819	23	9	19	47	2.00	114	.37819	95	36	77	190	2.00
115	.39332	15	6	12	28	1.91	115	.39332	59	23	47	113	1.91
116	.40905	9	4	7	16	1.83	116	.40905	36	15	28	65	1.83
117	.42542	5	2	4	9	1.74	117	.42542	21	9	17	37	1.74
118	.44243	3	1	2	5	1.66	118	.44243	12	5	9	20	1.66
119	.46013	2	1	1	3	1.59	119	.46013	7	3	5	11	1.59

Table 3p. Calendar Year 2050 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$^o_e(x)$
0	.00750	100000	750	99336	7584174	75.84	0	.00593	100000	593	99477	8384287	83.84
1	.00066	99250	65	99218	7484838	75.41	1	.00053	99407	53	99380	8284810	83.34
2	.00048	99185	48	99162	7385620	74.46	2	.00033	99354	33	99338	8185430	82.39
3	.00037	99138	37	99119	7286459	73.50	3	.00025	99321	24	99309	8086092	81.41
4	.00031	99101	30	99086	7187339	72.53	4	.00020	99297	19	99287	7986783	80.43
5	.00025	99071	25	99058	7088253	71.55	5	.00017	99277	17	99269	7887496	79.45
6	.00022	99046	22	99035	6989195	70.57	6	.00016	99260	16	99252	7788228	78.46
7	.00020	99024	19	99014	6890160	69.58	7	.00014	99245	14	99237	7688975	77.47
8	.00017	99005	17	98996	6791146	68.59	8	.00013	99230	13	99224	7589738	76.49
9	.00014	98988	14	98981	6692150	67.61	9	.00012	99217	12	99211	7490514	75.50
10	.00012	98974	12	98968	6593169	66.61	10	.00012	99205	12	99199	7391303	74.51
11	.00013	98963	13	98956	6494200	65.62	11	.00012	99193	12	99187	7292105	73.51
12	.00020	98950	20	98940	6395244	64.63	12	.00014	99181	14	99174	7192918	72.52
13	.00034	98930	33	98913	6296305	63.64	13	.00019	99166	18	99157	7093744	71.53
14	.00053	98896	52	98870	6197391	62.67	14	.00024	99148	24	99136	6994587	70.55
15	.00074	98844	73	98808	6098521	61.70	15	.00031	99124	30	99109	6895451	69.56
16	.00094	98771	93	98725	5999713	60.74	16	.00036	99094	36	99076	6796342	68.58
17	.00111	98678	109	98624	5900989	59.80	17	.00041	99058	41	99037	6697266	67.61
18	.00122	98569	120	98509	5802365	58.87	18	.00044	99017	44	98995	6598229	66.64
19	.00129	98449	127	98385	5703856	57.94	19	.00046	98973	45	98951	6499234	65.67
20	.00134	98322	132	98256	5605471	57.01	20	.00047	98928	46	98905	6400283	64.70
21	.00140	98190	138	98121	5507215	56.09	21	.00048	98882	47	98859	6301377	63.73
22	.00146	98052	143	97981	5409094	55.17	22	.00049	98835	48	98811	6202519	62.76
23	.00152	97909	149	97834	5311113	54.25	23	.00049	98787	49	98763	6103708	61.79
24	.00159	97760	155	97682	5213279	53.33	24	.00050	98738	49	98714	6004946	60.82
25	.00165	97605	161	97524	5115597	52.41	25	.00050	98689	49	98665	5906232	59.85
26	.00170	97444	166	97361	5018073	51.50	26	.00050	98640	49	98615	5807567	58.88
27	.00170	97278	166	97195	4920712	50.58	27	.00050	98591	49	98567	5708952	57.91
28	.00165	97112	160	97032	4823517	49.67	28	.00049	98542	48	98518	5610385	56.93
29	.00156	96952	151	96876	4726485	48.75	29	.00048	98494	47	98470	5511867	55.96
30	.00146	96801	141	96730	4629608	47.83	30	.00047	98447	47	98423	5413397	54.99
31	.00137	96660	133	96593	4532878	46.90	31	.00047	98400	47	98377	5314974	54.01
32	.00132	96527	127	96464	4436285	45.96	32	.00048	98353	47	98330	5216597	53.04
33	.00132	96400	127	96336	4339821	45.02	33	.00048	98307	47	98283	5118267	52.06
34	.00135	96273	130	96208	4243485	44.08	34	.00049	98259	48	98235	5019984	51.09
35	.00141	96143	136	96075	4147277	43.14	35	.00051	98211	50	98186	4921749	50.11
36	.00148	96007	142	95936	4051202	42.20	36	.00054	98161	53	98135	4823563	49.14
37	.00155	95865	149	95791	3955266	41.26	37	.00059	98108	58	98079	4725429	48.17
38	.00163	95717	156	95638	3859475	40.32	38	.00067	98051	66	98018	4627349	47.19
39	.00173	95560	165	95478	3763837	39.39	39	.00078	97985	77	97946	4529332	46.22

Table 3p. Calendar Year 2050 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
40	.00184	95395	176	95307	3668359	38.45	40	.00091	97908	89	97864	4431385	45.26
41	.00199	95219	189	95125	3573052	37.52	41	.00104	97819	102	97768	4333521	44.30
42	.00216	95030	206	94927	3477927	36.60	42	.00117	97717	115	97660	4235753	43.35
43	.00237	94824	225	94712	3383000	35.68	43	.00129	97603	126	97540	4138093	42.40
44	.00261	94600	247	94476	3288288	34.76	44	.00142	97477	138	97408	4040553	41.45
45	.00287	94353	271	94217	3193812	33.85	45	.00155	97339	150	97263	3943145	40.51
46	.00316	94082	297	93934	3099595	32.95	46	.00170	97188	165	97106	3845882	39.57
47	.00351	93785	329	93621	3005661	32.05	47	.00187	97023	182	96932	3748776	38.64
48	.00393	93456	367	93273	2912040	31.16	48	.00207	96842	201	96741	3651844	37.71
49	.00441	93089	410	92884	2818768	30.28	49	.00230	96641	222	96530	3555103	36.79
50	.00496	92679	459	92449	2725884	29.41	50	.00255	96419	246	96296	3458573	35.87
51	.00552	92219	509	91965	2633435	28.56	51	.00283	96172	272	96036	3362278	34.96
52	.00603	91710	553	91434	2541470	27.71	52	.00311	95900	298	95751	3266241	34.06
53	.00643	91157	586	90864	2450037	26.88	53	.00340	95602	325	95439	3170490	33.16
54	.00679	90571	615	90264	2359173	26.05	54	.00370	95277	352	95101	3075051	32.27
55	.00719	89956	647	89633	2268909	25.22	55	.00401	94925	381	94734	2979950	31.39
56	.00770	89309	688	88966	2179276	24.40	56	.00438	94544	414	94337	2885216	30.52
57	.00834	88622	739	88252	2090311	23.59	57	.00481	94130	453	93904	2790879	29.65
58	.00915	87883	804	87481	2002059	22.78	58	.00535	93677	501	93427	2696975	28.79
59	.01011	87079	880	86639	1914578	21.99	59	.00595	93176	554	92899	2603548	27.94
60	.01115	86198	962	85718	1827939	21.21	60	.00660	92622	611	92316	2510649	27.11
61	.01230	85237	1049	84712	1742222	20.44	61	.00727	92010	669	91676	2418333	26.28
62	.01367	84188	1151	83613	1657509	19.69	62	.00797	91341	728	90977	2326657	25.47
63	.01527	83037	1268	82403	1573897	18.95	63	.00868	90613	787	90220	2235680	24.67
64	.01708	81769	1396	81071	1491493	18.24	64	.00941	89827	846	89404	2145460	23.88
65	.01906	80373	1532	79607	1410422	17.55	65	.01021	88981	908	88527	2056056	23.11
66	.02111	78841	1665	78009	1330815	16.88	66	.01104	88073	972	87586	1967530	22.34
67	.02313	77177	1785	76284	1252805	16.23	67	.01183	87100	1030	86585	1879943	21.58
68	.02505	75392	1889	74447	1176521	15.61	68	.01256	86070	1081	85529	1793358	20.84
69	.02694	73503	1980	72513	1102074	14.99	69	.01328	84989	1128	84425	1707828	20.09
70	.02895	71523	2071	70487	1029561	14.39	70	.01407	83860	1180	83270	1623404	19.36
71	.03116	69452	2164	68370	959074	13.81	71	.01499	82680	1239	82061	1540134	18.63
72	.03357	67288	2259	66158	890704	13.24	72	.01597	81441	1300	80791	1458073	17.90
73	.03620	65029	2354	63852	824545	12.68	73	.01702	80141	1364	79459	1377282	17.19
74	.03906	62675	2448	61451	760693	12.14	74	.01818	78777	1432	78061	1297823	16.47
75	.04218	60227	2540	58957	699242	11.61	75	.01953	77344	1511	76589	1219763	15.77
76	.04552	57687	2626	56374	640285	11.10	76	.02111	75834	1601	75033	1143174	15.07
77	.04904	55061	2700	53711	583912	10.60	77	.02290	74233	1700	73383	1068140	14.39
78	.05272	52361	2761	50980	530201	10.13	78	.02494	72533	1809	71628	994758	13.71
79	.05663	49600	2809	48195	479221	9.66	79	.02727	70723	1928	69759	923129	13.05

Table 3p. Calendar Year 2050 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	^o e(x)
80	.06075	46791	2843	45369	431025	9.21	80	.03000	68795	2064	67763	853370	12.40
81	.06526	43948	2868	42514	385656	8.78	81	.03311	66731	2210	65626	785607	11.77
82	.07040	41080	2892	39634	343142	8.35	82	.03648	64521	2354	63345	719981	11.16
83	.07629	38188	2913	36731	303508	7.95	83	.04007	62168	2491	60922	656636	10.56
84	.08278	35275	2920	33815	266777	7.56	84	.04403	59677	2628	58363	595714	9.98
85	.08966	32355	2901	30904	232962	7.20	85	.04853	57049	2768	55665	537351	9.42
86	.09673	29454	2849	28029	202058	6.86	86	.05373	54281	2916	52823	481686	8.87
87	.10389	26605	2764	25223	174028	6.54	87	.05974	51364	3068	49830	428863	8.35
88	.11109	23841	2648	22517	148805	6.24	88	.06662	48296	3217	46687	379033	7.85
89	.11838	21192	2509	19938	126289	5.96	89	.07438	45079	3353	43402	332346	7.37
90	.12583	18684	2351	17508	106351	5.69	90	.08301	41726	3464	39994	288943	6.92
91	.13352	16333	2181	15242	88843	5.44	91	.09249	38262	3539	36493	248949	6.51
92	.14151	14152	2003	13151	73601	5.20	92	.10280	34723	3569	32939	212456	6.12
93	.14988	12149	1821	11239	60450	4.98	93	.11390	31154	3548	29380	179518	5.76
94	.15870	10328	1639	9509	49211	4.76	94	.12578	27606	3472	25869	150138	5.44
95	.16744	8689	1455	7962	39703	4.57	95	.13753	24133	3319	22474	124269	5.15
96	.17603	7234	1273	6597	31741	4.39	96	.14888	20814	3099	19265	101795	4.89
97	.18440	5961	1099	5411	25144	4.22	97	.15956	17715	2827	16302	82530	4.66
98	.19247	4862	936	4394	19732	4.06	98	.16927	14889	2520	13629	66228	4.45
99	.20017	3926	786	3533	15339	3.91	99	.17773	12369	2198	11269	52599	4.25
100	.20818	3140	654	2813	11806	3.76	100	.18662	10170	1898	9221	41330	4.06
101	.21651	2486	538	2217	8993	3.62	101	.19595	8272	1621	7462	32108	3.88
102	.22517	1948	439	1729	6775	3.48	102	.20575	6651	1368	5967	24647	3.71
103	.23417	1509	353	1333	5047	3.34	103	.21604	5283	1141	4712	18679	3.54
104	.24354	1156	282	1015	3714	3.21	104	.22684	4142	939	3672	13967	3.37
105	.25328	874	221	764	2699	3.09	105	.23818	3202	763	2821	10295	3.22
106	.26341	653	172	567	1935	2.96	106	.25009	2439	610	2134	7475	3.06
107	.27395	481	132	415	1368	2.84	107	.26259	1829	480	1589	5340	2.92
108	.28491	349	99	299	953	2.73	108	.27572	1349	372	1163	3751	2.78
109	.29630	250	74	213	654	2.62	109	.28951	977	283	836	2588	2.65
110	.30816	176	54	149	441	2.51	110	.30398	694	211	589	1753	2.52
111	.32048	122	39	102	292	2.41	111	.31918	483	154	406	1164	2.41
112	.33330	83	28	69	190	2.30	112	.33330	329	110	274	758	2.30
113	.34663	55	19	46	121	2.21	113	.34663	219	76	181	484	2.21
114	.36050	36	13	29	76	2.11	114	.36050	143	52	117	302	2.11
115	.37492	23	9	19	46	2.02	115	.37492	92	34	74	185	2.02
116	.38992	14	6	12	28	1.93	116	.38992	57	22	46	111	1.93
117	.40551	9	4	7	16	1.84	117	.40551	35	14	28	64	1.84
118	.42173	5	2	4	9	1.76	118	.42173	21	9	16	37	1.76
119	.43860	3	1	2	5	1.68	119	.43860	12	5	9	20	1.68

Table 4. Probabilities of Death Within One Year at Selected Exact Ages, by Sex and Calendar Year

Calendar Year	Sex and Exact Age											
	Male						Female					
	0	30	60	65	70	100	0	30	60	65	70	100
1900	.14306	.00838	.02930	.04159	.06182	.43304	.11762	.00829	.02627	.03691	.05627	.43304
1901	.12556	.00852	.03035	.04228	.06170	.42911	.10250	.00801	.02690	.03751	.05564	.42911
1902	.12317	.00789	.02881	.03984	.05939	.40101	.10090	.00750	.02458	.03454	.05206	.40101
1903	.11804	.00788	.02995	.04149	.06102	.42235	.09642	.00743	.02616	.03653	.05399	.42235
1904	.12358	.00827	.03259	.04357	.06503	.45078	.10100	.00773	.02696	.03741	.05819	.45078
1905	.12546	.00781	.03121	.04244	.06113	.44824	.10184	.00738	.02641	.03754	.05563	.44824
1906	.12838	.00802	.03054	.04189	.06031	.44610	.10478	.00726	.02541	.03615	.05391	.44610
1907	.12258	.00833	.03222	.04463	.06533	.46040	.10059	.00709	.02671	.03786	.05730	.46040
1908	.11794	.00716	.02941	.03987	.05862	.43253	.09679	.00653	.02454	.03536	.05351	.43253
1909	.11243	.00676	.02856	.04053	.05907	.43454	.09214	.00615	.02386	.03532	.05262	.43454
1910	.11779	.00713	.02968	.04151	.06173	.43583	.09663	.00635	.02424	.03591	.05513	.43583
1911	.10267	.00689	.02886	.04054	.06164	.42638	.08415	.00618	.02392	.03511	.05497	.42638
1912	.10057	.00664	.02888	.04072	.06091	.42004	.08156	.00588	.02369	.03498	.05360	.42004
1913	.10384	.00679	.02847	.04007	.06143	.41209	.08412	.00584	.02313	.03410	.05339	.41209
1914	.09753	.00655	.02793	.03950	.06214	.40230	.07909	.00575	.02308	.03376	.05386	.40230
1915	.09397	.00637	.02797	.03947	.06331	.41866	.07488	.00561	.02352	.03444	.05623	.41866
1916	.09576	.00672	.02882	.04116	.06412	.42625	.07624	.00580	.02383	.03542	.05652	.42625
1917	.09518	.00715	.02926	.04170	.06474	.41916	.07521	.00596	.02402	.03549	.05613	.41916
1918	.10078	.01792	.02864	.04080	.06180	.38914	.08077	.01422	.02405	.03501	.05430	.38914
1919	.08326	.00762	.02465	.03606	.05467	.39123	.06606	.00771	.02169	.03268	.05006	.39123
1920	.08449	.00659	.02481	.03714	.05728	.42232	.06675	.00730	.02267	.03408	.05255	.42232
1921	.07410	.00480	.02390	.03492	.05409	.40299	.05902	.00501	.02137	.03164	.04908	.40299
1922	.07170	.00502	.02585	.03755	.05878	.41881	.05673	.00507	.02239	.03306	.05208	.41881
1923	.07420	.00504	.02725	.03847	.06005	.44254	.05967	.00493	.02309	.03362	.05354	.44254
1924	.07112	.00471	.02654	.03793	.05825	.42034	.05603	.00458	.02225	.03162	.05050	.42034
1925	.06985	.00477	.02664	.03882	.05838	.44081	.05524	.00458	.02235	.03293	.05050	.44081
1926	.07177	.00481	.02719	.04067	.05969	.46296	.05711	.00467	.02298	.03431	.05204	.46296
1927	.06438	.00461	.02600	.03932	.05681	.44039	.05055	.00452	.02122	.03257	.04869	.44039
1928	.06814	.00499	.02701	.04151	.05945	.47780	.05336	.00476	.02223	.03444	.05102	.47780
1929	.06636	.00510	.02733	.04147	.05929	.47447	.05280	.00480	.02218	.03417	.05055	.47447
1930	.06401	.00491	.02739	.03945	.05751	.43074	.05113	.00445	.02187	.03205	.04848	.43074
1931	.06028	.00475	.02711	.03773	.05652	.42679	.04778	.00433	.02159	.03080	.04731	.42679
1932	.05748	.00434	.02729	.03711	.05644	.43435	.04574	.00406	.02162	.03034	.04804	.43435
1933	.05729	.00428	.02751	.03700	.05631	.42178	.04588	.00389	.02120	.02975	.04631	.42178
1934	.06229	.00435	.02802	.03789	.05646	.42341	.04940	.00383	.02133	.02987	.04621	.42341
1935	.05770	.00427	.02725	.03825	.05478	.42746	.04490	.00375	.02053	.02997	.04479	.42746
1936	.05910	.00438	.02851	.04044	.05644	.45357	.04654	.00377	.02096	.03130	.04599	.45357
1937	.05761	.00422	.02786	.03988	.05456	.43827	.04552	.00353	.02013	.03017	.04381	.43827
1938	.05491	.00363	.02587	.03779	.05301	.42049	.04321	.00308	.01900	.02870	.04247	.42049
1939	.05112	.00346	.02607	.03763	.05366	.43366	.04023	.00293	.01905	.02820	.04283	.43366

Table 4. Probabilities of Death Within One Year at Selected Exact Ages, by Sex and Calendar Year

Calendar Year	Sex and Exact Age											
	Male						Female					
	0	30	60	65	70	100	0	30	60	65	70	100
1940	.06147	.00340	.02663	.03812	.05611	.42547	.04772	.00277	.01829	.02764	.04395	.42547
1941	.05836	.00330	.02593	.03701	.05474	.41655	.04632	.00260	.01751	.02637	.04183	.41655
1942	.05424	.00321	.02564	.03644	.05321	.40333	.04296	.00240	.01711	.02552	.04083	.40333
1943	.04909	.00312	.02635	.03669	.05474	.43141	.03853	.00238	.01753	.02598	.04212	.43141
1944	.04892	.00313	.02569	.03534	.05219	.40924	.03901	.00225	.01674	.02456	.03995	.40924
1945	.04739	.00338	.02568	.03499	.05066	.40682	.03721	.00212	.01622	.02378	.03802	.40682
1946	.05190	.00259	.02501	.03400	.04889	.39836	.04016	.00193	.01573	.02279	.03684	.39836
1947	.03867	.00240	.02577	.03510	.05074	.40982	.03002	.00180	.01567	.02278	.03707	.40982
1948	.04000	.00229	.02538	.03503	.05024	.39953	.03106	.00159	.01523	.02223	.03588	.39953
1949	.03947	.00213	.02501	.03497	.04974	.37872	.03059	.00151	.01477	.02193	.03521	.37872
1950	.03713	.00213	.02476	.03487	.05046	.37202	.02858	.00143	.01462	.02128	.03449	.37202
1951	.03650	.00214	.02447	.03499	.05026	.36291	.02791	.00137	.01429	.02104	.03370	.36291
1952	.03597	.00210	.02452	.03487	.04924	.35154	.02787	.00132	.01379	.02062	.03314	.35154
1953	.03458	.00202	.02444	.03512	.04948	.35863	.02658	.00121	.01336	.02044	.03282	.35863
1954	.03290	.00191	.02311	.03390	.04811	.34611	.02535	.00112	.01261	.01948	.03098	.34611
1955	.03197	.00185	.02309	.03408	.04859	.36603	.02468	.00108	.01237	.01962	.03059	.36603
1956	.03182	.00186	.02347	.03446	.04872	.37163	.02429	.00108	.01236	.01946	.03033	.37163
1957	.03138	.00189	.02412	.03581	.05031	.37580	.02426	.00114	.01259	.01983	.03085	.37580
1958	.03145	.00183	.02366	.03524	.04947	.37388	.02451	.00108	.01237	.01924	.03029	.37388
1959	.03085	.00185	.02347	.03460	.04893	.36635	.02378	.00108	.01209	.01869	.02938	.36476
1960	.03059	.00182	.02392	.03515	.05019	.36793	.02332	.00106	.01237	.01869	.02941	.36137
1961	.02915	.00178	.02339	.03485	.04841	.36738	.02235	.00104	.01196	.01820	.02841	.35924
1962	.02920	.00179	.02362	.03547	.04920	.37846	.02220	.00105	.01212	.01835	.02842	.37026
1963	.02911	.00185	.02422	.03609	.05056	.38676	.02216	.00105	.01230	.01840	.02839	.37273
1964	.02837	.00193	.02417	.03521	.04901	.36888	.02194	.00107	.01197	.01796	.02723	.35811
1965	.02773	.00192	.02421	.03554	.04924	.37415	.02130	.00107	.01173	.01793	.02678	.35747
1966	.02701	.00197	.02430	.03566	.05008	.37128	.02086	.00108	.01146	.01779	.02721	.35399
1967	.02574	.00199	.02385	.03466	.04971	.36132	.01985	.00102	.01121	.01737	.02653	.34064
1968	.02550	.00209	.02446	.03541	.05072	.38723	.01957	.00103	.01167	.01685	.02620	.34765
1969	.02473	.00211	.02375	.03431	.04941	.36860	.01905	.00104	.01127	.01614	.02544	.33009
1970	.02381	.00209	.02348	.03414	.04879	.34849	.01853	.00101	.01123	.01597	.02508	.31433
1971	.02111	.00207	.02283	.03375	.04890	.35015	.01644	.00101	.01105	.01593	.02477	.31586
1972	.02045	.00206	.02301	.03373	.04918	.35182	.01576	.00099	.01093	.01588	.02482	.31666
1973	.01992	.00206	.02251	.03322	.04836	.35921	.01543	.00094	.01090	.01551	.02393	.32003
1974	.01922	.00198	.02149	.03216	.04673	.33939	.01503	.00089	.01059	.01514	.02314	.30379
1975	.01778	.00193	.02080	.03123	.04554	.32755	.01411	.00084	.01023	.01465	.02236	.29308
1976	.01707	.00182	.02045	.03090	.04494	.34399	.01376	.00081	.01016	.01462	.02212	.30219
1977	.01592	.00181	.01979	.03002	.04415	.32920	.01257	.00078	.00992	.01451	.02169	.29186
1978	.01526	.00180	.01950	.02982	.04395	.32761	.01223	.00077	.00982	.01446	.02172	.30635
1979	.01481	.00193	.01893	.02891	.04281	.31758	.01134	.00072	.00928	.01403	.02129	.28116

Table 4. Probabilities of Death Within One Year at Selected Exact Ages, by Sex and Calendar Year

Calendar Year	Sex and Exact Age											
	Male						Female					
	0	30	60	65	70	100	0	30	60	65	70	100
1980	.01404	.00193	.01852	.02895	.04328	.32911	.01122	.00075	.00952	.01455	.02203	.29713
1981	.01310	.00190	.01791	.02844	.04240	.32648	.01070	.00074	.00952	.01446	.02180	.29980
1982	.01265	.00187	.01754	.02802	.04184	.32236	.01035	.00072	.00939	.01429	.02142	.29623
1983	.01225	.00184	.01719	.02761	.04130	.31832	.01004	.00070	.00927	.01412	.02105	.29276
1984	.01189	.00181	.01685	.02721	.04077	.31436	.00975	.00068	.00915	.01397	.02071	.28937
1985	.01157	.00178	.01652	.02683	.04026	.31047	.00949	.00066	.00903	.01382	.02037	.28605
1986	.01129	.00176	.01620	.02646	.03977	.30665	.00926	.00065	.00892	.01368	.02006	.28280
1987	.01104	.00173	.01589	.02610	.03930	.30291	.00905	.00063	.00882	.01355	.01975	.27962
1988	.01082	.00171	.01560	.02576	.03885	.29924	.00887	.00061	.00872	.01342	.01947	.27651
1989	.01064	.00168	.01532	.02543	.03841	.29566	.00871	.00060	.00863	.01330	.01920	.27347
1990	.01049	.00166	.01505	.02511	.03800	.29216	.00857	.00059	.00854	.01319	.01894	.27051
1991	.01037	.00164	.01480	.02481	.03761	.28877	.00845	.00057	.00846	.01309	.01871	.26763
1992	.01028	.00162	.01457	.02454	.03724	.28551	.00835	.00056	.00838	.01300	.01850	.26484
1993	.01020	.00160	.01436	.02429	.03690	.28238	.00828	.00055	.00832	.01292	.01831	.26217
1994	.01014	.00158	.01418	.02406	.03660	.27947	.00821	.00054	.00826	.01285	.01815	.25961
1995	.01009	.00157	.01403	.02386	.03633	.27674	.00816	.00054	.00821	.01279	.01802	.25722
1996	.01005	.00156	.01390	.02369	.03608	.27424	.00810	.00053	.00817	.01273	.01790	.25494
1997	.01000	.00155	.01379	.02354	.03586	.27197	.00806	.00053	.00813	.01268	.01780	.25284
1998	.00995	.00154	.01370	.02341	.03567	.26993	.00801	.00052	.00809	.01263	.01771	.25089
1999	.00990	.00153	.01362	.02329	.03549	.26809	.00796	.00052	.00806	.01258	.01762	.24909
2000	.00985	.00153	.01355	.02318	.03532	.26642	.00792	.00052	.00803	.01253	.01754	.24741
2001	.00980	.00153	.01349	.02308	.03516	.26486	.00787	.00052	.00800	.01248	.01747	.24583
2002	.00974	.00152	.01343	.02298	.03500	.26339	.00782	.00051	.00797	.01244	.01739	.24432
2003	.00969	.00152	.01337	.02288	.03486	.26198	.00778	.00051	.00793	.01238	.01731	.24287
2004	.00964	.00152	.01331	.02279	.03471	.26063	.00773	.00051	.00790	.01233	.01723	.24145
2005	.00958	.00152	.01326	.02269	.03456	.25930	.00769	.00051	.00787	.01228	.01715	.24005
2006	.00953	.00151	.01320	.02260	.03442	.25799	.00764	.00051	.00784	.01223	.01708	.23869
2007	.00947	.00151	.01315	.02251	.03428	.25669	.00759	.00051	.00781	.01218	.01700	.23732
2008	.00942	.00151	.01310	.02242	.03414	.25542	.00755	.00051	.00778	.01213	.01692	.23600
2009	.00937	.00151	.01305	.02233	.03400	.25416	.00750	.00051	.00775	.01208	.01685	.23467
2010	.00931	.00151	.01300	.02224	.03386	.25290	.00746	.00051	.00772	.01203	.01677	.23336
2011	.00926	.00151	.01294	.02215	.03373	.25165	.00742	.00051	.00768	.01198	.01670	.23204
2012	.00921	.00151	.01289	.02206	.03359	.25041	.00737	.00050	.00765	.01193	.01662	.23075
2013	.00916	.00150	.01284	.02197	.03345	.24917	.00733	.00050	.00762	.01188	.01655	.22945
2014	.00911	.00150	.01279	.02189	.03332	.24795	.00728	.00050	.00759	.01183	.01647	.22816
2015	.00906	.00150	.01274	.02180	.03319	.24672	.00724	.00050	.00756	.01178	.01640	.22688
2016	.00900	.00150	.01269	.02172	.03305	.24551	.00720	.00050	.00753	.01173	.01633	.22562
2017	.00895	.00150	.01264	.02163	.03292	.24430	.00716	.00050	.00750	.01168	.01625	.22435
2018	.00891	.00150	.01259	.02154	.03279	.24310	.00712	.00050	.00747	.01163	.01618	.22310
2019	.00886	.00150	.01254	.02146	.03266	.24191	.00707	.00050	.00744	.01158	.01611	.22185

Table 4. Probabilities of Death Within One Year at Selected Exact Ages, by Sex and Calendar Year

Calendar Year	Sex and Exact Age											
	Male						Female					
	0	30	60	65	70	100	0	30	60	65	70	100
2020	.00881	.00150	.01250	.02138	.03253	.24072	.00703	.00050	.00742	.01154	.01604	.22061
2021	.00876	.00149	.01245	.02129	.03240	.23955	.00699	.00050	.00739	.01149	.01597	.21937
2022	.00871	.00149	.01240	.02121	.03227	.23837	.00695	.00050	.00736	.01144	.01590	.21815
2023	.00866	.00149	.01235	.02112	.03214	.23720	.00691	.00050	.00733	.01139	.01583	.21693
2024	.00862	.00149	.01230	.02104	.03201	.23604	.00687	.00049	.00730	.01135	.01576	.21572
2025	.00857	.00149	.01226	.02096	.03189	.23489	.00683	.00049	.00727	.01130	.01569	.21451
2026	.00852	.00149	.01221	.02088	.03176	.23375	.00679	.00049	.00724	.01125	.01562	.21332
2027	.00847	.00149	.01216	.02080	.03164	.23261	.00675	.00049	.00721	.01121	.01555	.21212
2028	.00843	.00148	.01212	.02072	.03151	.23148	.00672	.00049	.00719	.01116	.01548	.21094
2029	.00838	.00148	.01207	.02064	.03139	.23035	.00668	.00049	.00716	.01112	.01542	.20976
2030	.00834	.00148	.01202	.02056	.03127	.22923	.00664	.00049	.00713	.01107	.01535	.20860
2031	.00829	.00148	.01198	.02048	.03114	.22812	.00660	.00049	.00710	.01102	.01528	.20743
2032	.00825	.00148	.01193	.02040	.03102	.22701	.00656	.00049	.00707	.01098	.01521	.20627
2033	.00820	.00148	.01189	.02032	.03090	.22591	.00652	.00049	.00705	.01094	.01515	.20513
2034	.00816	.00148	.01184	.02025	.03078	.22482	.00649	.00049	.00702	.01089	.01508	.20399
2035	.00811	.00147	.01180	.02017	.03066	.22373	.00645	.00049	.00699	.01085	.01502	.20285
2036	.00807	.00147	.01175	.02009	.03054	.22266	.00642	.00049	.00697	.01080	.01495	.20172
2037	.00803	.00147	.01171	.02001	.03043	.22158	.00638	.00048	.00694	.01076	.01488	.20060
2038	.00799	.00147	.01166	.01994	.03031	.22051	.00634	.00048	.00691	.01071	.01482	.19949
2039	.00794	.00147	.01162	.01986	.03019	.21945	.00631	.00048	.00689	.01067	.01476	.19838
2040	.00790	.00147	.01158	.01979	.03007	.21840	.00627	.00048	.00686	.01063	.01469	.19728
2041	.00786	.00147	.01153	.01971	.02996	.21734	.00624	.00048	.00683	.01059	.01463	.19618
2042	.00782	.00147	.01149	.01964	.02984	.21630	.00620	.00048	.00681	.01054	.01457	.19509
2043	.00778	.00147	.01145	.01956	.02973	.21527	.00617	.00048	.00678	.01050	.01450	.19401
2044	.00774	.00146	.01140	.01949	.02962	.21424	.00613	.00048	.00675	.01046	.01444	.19293
2045	.00769	.00146	.01136	.01942	.02950	.21321	.00610	.00048	.00673	.01042	.01438	.19186
2046	.00766	.00146	.01132	.01934	.02939	.21219	.00607	.00048	.00670	.01037	.01432	.19080
2047	.00762	.00146	.01128	.01927	.02928	.21119	.00603	.00048	.00668	.01033	.01426	.18975
2048	.00757	.00146	.01124	.01920	.02917	.21017	.00600	.00048	.00665	.01029	.01420	.18870
2049	.00753	.00146	.01120	.01913	.02906	.20917	.00597	.00048	.00663	.01025	.01413	.18766
2050	.00750	.00146	.01115	.01906	.02895	.20818	.00593	.00047	.00660	.01021	.01407	.18662

Table 5. Life Expectancies at Selected Exact Ages, by Sex and Calendar Year

Calendar Year	Sex and Exact Age											
	Male						Female					
	0	30	60	65	70	100	0	30	60	65	70	100
1900	46.56	34.57	14.18	11.35	8.85	1.71	49.07	35.80	14.96	12.01	9.37	1.71
1901	48.00	34.33	14.09	11.33	8.85	1.72	50.96	35.90	14.88	11.99	9.35	1.72
1902	49.15	35.10	14.53	11.71	9.17	1.87	52.18	36.97	15.59	12.61	9.91	1.87
1903	49.32	34.76	14.21	11.43	8.92	1.76	52.21	36.48	15.14	12.22	9.57	1.76
1904	48.21	34.00	13.74	11.09	8.61	1.63	51.19	36.00	14.77	11.87	9.22	1.63
1905	48.86	34.52	14.04	11.35	8.85	1.64	51.98	36.38	14.96	12.05	9.43	1.64
1906	48.40	34.49	14.18	11.44	8.94	1.65	52.06	36.77	15.18	12.22	9.56	1.65
1907	48.42	33.79	13.69	11.01	8.58	1.58	52.31	36.29	14.72	11.79	9.15	1.58
1908	50.34	35.26	14.41	11.61	9.03	1.71	53.69	37.30	15.32	12.32	9.63	1.71
1909	51.24	35.53	14.43	11.60	9.08	1.70	54.55	37.60	15.41	12.36	9.68	1.70
1910	50.20	35.02	14.18	11.38	8.87	1.69	53.67	37.23	15.16	12.10	9.43	1.69
1911	51.90	35.26	14.31	11.47	8.94	1.74	55.13	37.38	15.27	12.19	9.49	1.74
1912	52.45	35.35	14.34	11.49	8.98	1.77	55.95	37.65	15.35	12.26	9.56	1.77
1913	51.83	35.33	14.43	11.55	9.03	1.81	55.53	37.74	15.49	12.37	9.64	1.81
1914	52.98	35.63	14.49	11.59	9.06	1.86	56.41	37.85	15.56	12.44	9.71	1.86
1915	53.60	35.63	14.38	11.44	8.88	1.78	56.86	37.64	15.28	12.16	9.44	1.78
1916	52.52	35.13	14.17	11.26	8.77	1.74	56.05	37.38	15.15	12.03	9.35	1.74
1917	52.27	34.85	14.11	11.22	8.75	1.77	55.98	37.31	15.16	12.06	9.38	1.77
1918	45.43	32.05	14.49	11.63	9.19	1.93	49.15	35.08	15.53	12.48	9.84	1.93
1919	54.27	36.59	15.30	12.27	9.65	1.92	56.51	37.82	16.02	12.85	10.12	1.92
1920	54.59	36.75	14.87	11.81	9.18	1.76	56.33	37.46	15.48	12.34	9.61	1.76
1921	57.32	38.06	15.30	12.24	9.53	1.86	59.31	38.97	15.99	12.82	9.99	1.86
1922	57.09	37.24	14.72	11.76	9.11	1.78	59.38	38.50	15.56	12.45	9.64	1.78
1923	56.39	36.81	14.42	11.54	8.87	1.66	58.79	38.25	15.29	12.20	9.37	1.66
1924	57.22	37.11	14.65	11.75	9.10	1.77	59.95	38.83	15.75	12.65	9.75	1.77
1925	57.29	36.97	14.55	11.65	9.03	1.67	59.98	38.70	15.62	12.52	9.69	1.67
1926	56.64	36.53	14.28	11.37	8.81	1.57	59.38	38.31	15.33	12.23	9.46	1.57
1927	58.00	37.09	14.69	11.75	9.20	1.67	60.90	39.05	15.91	12.73	9.95	1.67
1928	56.84	36.35	14.27	11.33	8.83	1.51	59.86	38.34	15.44	12.29	9.55	1.51
1929	57.05	36.37	14.34	11.42	8.94	1.53	60.20	38.52	15.56	12.41	9.68	1.53
1930	58.01	36.91	14.69	11.83	9.29	1.72	61.36	39.23	16.04	12.91	10.11	1.72
1931	58.62	37.09	14.86	11.98	9.36	1.74	62.06	39.54	16.25	13.12	10.26	1.74
1932	59.49	37.39	14.80	11.92	9.23	1.70	62.62	39.64	16.10	12.95	10.03	1.70
1933	59.62	37.50	14.85	12.02	9.33	1.76	63.07	40.01	16.34	13.18	10.25	1.76
1934	58.90	37.20	14.70	11.88	9.22	1.75	62.72	39.97	16.28	13.13	10.19	1.75
1935	59.47	37.31	14.80	11.93	9.32	1.73	63.35	40.14	16.41	13.21	10.31	1.73
1936	58.80	36.68	14.40	11.56	9.00	1.61	62.89	39.72	16.02	12.81	9.94	1.61
1937	59.41	37.04	14.63	11.77	9.22	1.68	63.62	40.20	16.38	13.14	10.24	1.68
1938	60.86	37.99	15.05	12.11	9.52	1.77	64.77	40.93	16.75	13.45	10.51	1.77
1939	61.48	38.07	14.99	12.04	9.43	1.70	65.44	41.03	16.71	13.40	10.41	1.70

Table 5. Life Expectancies at Selected Exact Ages, by Sex and Calendar Year

Calendar Year	Sex and Exact Age											
	Male						Female					
	0	30	60	65	70	100	0	30	60	65	70	100
1940	60.89	37.99	14.84	11.92	9.32	1.74	65.34	41.28	16.78	13.42	10.42	1.74
1941	61.43	38.31	15.11	12.17	9.56	1.79	66.07	41.84	17.21	13.81	10.78	1.79
1942	62.05	38.54	15.33	12.39	9.78	1.86	66.93	42.25	17.46	14.05	10.99	1.86
1943	61.97	38.34	15.05	12.11	9.46	1.71	66.87	41.90	17.13	13.72	10.65	1.71
1944	62.35	38.79	15.41	12.47	9.78	1.82	67.55	42.49	17.55	14.10	10.98	1.82
1945	62.55	38.86	15.56	12.63	9.95	1.84	68.18	42.88	17.85	14.38	11.23	1.84
1946	63.43	39.47	15.80	12.86	10.14	1.88	68.56	43.34	18.08	14.59	11.38	1.88
1947	64.39	39.28	15.54	12.64	9.95	1.82	69.53	43.40	18.02	14.52	11.31	1.82
1948	64.56	39.47	15.63	12.71	10.05	1.88	69.93	43.79	18.24	14.72	11.48	1.88
1949	64.96	39.76	15.74	12.82	10.16	2.00	70.42	44.15	18.47	14.93	11.70	2.00
1950	65.33	39.88	15.75	12.81	10.16	2.04	70.90	44.41	18.61	15.07	11.79	2.04
1951	65.38	39.91	15.79	12.84	10.21	2.10	71.15	44.57	18.71	15.15	11.86	2.10
1952	65.51	40.06	15.91	12.97	10.35	2.17	71.41	44.84	18.91	15.31	12.01	2.17
1953	65.75	40.13	15.86	12.93	10.31	2.12	71.81	45.03	18.98	15.35	12.05	2.12
1954	66.53	40.70	16.21	13.22	10.59	2.21	72.59	45.64	19.42	15.75	12.41	2.21
1955	66.55	40.64	16.09	13.08	10.44	2.07	72.69	45.67	19.34	15.64	12.30	2.07
1956	66.56	40.61	16.03	13.04	10.41	2.04	72.82	45.75	19.39	15.68	12.34	2.04
1957	66.34	40.35	15.83	12.89	10.32	2.01	72.64	45.59	19.28	15.60	12.28	2.01
1958	66.55	40.49	15.90	12.93	10.34	2.03	72.86	45.79	19.39	15.69	12.32	2.03
1959	66.71	40.63	16.04	13.06	10.44	2.07	73.19	46.05	19.60	15.88	12.49	2.08
1960	66.58	40.45	15.86	12.91	10.30	2.06	73.19	46.02	19.57	15.89	12.48	2.08
1961	67.02	40.74	16.04	13.08	10.47	2.07	73.61	46.33	19.81	16.11	12.67	2.09
1962	66.84	40.55	15.89	12.93	10.34	2.00	73.48	46.20	19.72	16.03	12.59	2.03
1963	66.59	40.31	15.69	12.75	10.17	1.95	73.39	46.11	19.67	15.99	12.56	2.00
1964	66.80	40.51	15.91	13.00	10.39	2.06	73.71	46.41	19.98	16.29	12.84	2.10
1965	66.77	40.44	15.83	12.92	10.32	2.02	73.84	46.48	20.05	16.34	12.89	2.10
1966	66.66	40.33	15.79	12.86	10.27	2.04	73.88	46.50	20.07	16.32	12.88	2.12
1967	66.91	40.51	15.95	13.01	10.38	2.11	74.26	46.78	20.35	16.58	13.13	2.21
1968	66.55	40.20	15.74	12.81	10.19	1.95	74.16	46.69	20.34	16.61	13.10	2.16
1969	66.80	40.44	15.99	13.02	10.38	2.06	74.53	47.03	20.66	16.90	13.35	2.29
1970	67.05	40.59	16.11	13.14	10.51	2.19	74.80	47.24	20.88	17.12	13.58	2.41
1971	67.40	40.75	16.15	13.12	10.48	2.18	75.06	47.34	20.91	17.13	13.59	2.40
1972	67.43	40.72	16.10	13.09	10.43	2.17	75.23	47.45	20.97	17.18	13.65	2.39
1973	67.64	40.92	16.23	13.19	10.52	2.12	75.47	47.64	21.14	17.35	13.79	2.37
1974	68.24	41.39	16.56	13.48	10.79	2.26	76.00	48.09	21.45	17.66	14.08	2.50
1975	68.75	41.77	16.81	13.70	10.98	2.35	76.57	48.56	21.83	18.02	14.43	2.60
1976	69.07	41.97	16.87	13.74	11.00	2.22	76.76	48.70	21.89	18.08	14.48	2.52
1977	69.40	42.26	17.07	13.92	11.15	2.34	77.16	49.02	22.15	18.34	14.75	2.61
1978	69.58	42.39	17.12	13.95	11.17	2.35	77.25	49.09	22.16	18.34	14.75	2.48
1979	69.88	42.71	17.38	14.18	11.37	2.43	77.78	49.50	22.47	18.60	15.01	2.71

Table 5. Life Expectancies at Selected Exact Ages, by Sex and Calendar Year

Calendar Year	Sex and Exact Age											
	Male						Female					
	0	30	60	65	70	100	0	30	60	65	70	100
1980	69.85	42.59	17.29	14.02	11.22	2.34	77.53	49.25	22.20	18.35	14.79	2.56
1981	70.34	42.92	17.53	14.24	11.44	2.36	77.80	49.45	22.39	18.55	14.99	2.54
1982	70.59	43.12	17.65	14.34	11.53	2.39	78.05	49.67	22.56	18.71	15.15	2.57
1983	70.83	43.31	17.77	14.45	11.61	2.42	78.30	49.88	22.72	18.87	15.30	2.60
1984	71.06	43.50	17.89	14.55	11.70	2.46	78.54	50.09	22.89	19.03	15.45	2.63
1985	71.28	43.69	18.01	14.65	11.79	2.49	78.78	50.29	23.05	19.18	15.60	2.67
1986	71.50	43.87	18.12	14.74	11.87	2.52	79.01	50.49	23.20	19.34	15.75	2.70
1987	71.71	44.05	18.23	14.84	11.95	2.56	79.23	50.69	23.36	19.49	15.90	2.73
1988	71.91	44.22	18.34	14.93	12.03	2.59	79.44	50.88	23.51	19.63	16.04	2.76
1989	72.10	44.39	18.45	15.02	12.11	2.62	79.65	51.07	23.65	19.78	16.18	2.79
1990	72.29	44.55	18.55	15.11	12.18	2.66	79.85	51.25	23.79	19.92	16.32	2.82
1991	72.46	44.70	18.65	15.19	12.26	2.69	80.04	51.42	23.93	20.05	16.45	2.86
1992	72.62	44.85	18.74	15.27	12.33	2.72	80.21	51.58	24.06	20.17	16.57	2.89
1993	72.77	44.98	18.83	15.34	12.39	2.76	80.37	51.72	24.17	20.29	16.68	2.92
1994	72.90	45.10	18.91	15.41	12.45	2.79	80.51	51.85	24.28	20.39	16.79	2.95
1995	73.02	45.20	18.98	15.47	12.50	2.81	80.63	51.97	24.37	20.49	16.88	2.97
1996	73.12	45.30	19.04	15.53	12.55	2.84	80.73	52.07	24.45	20.57	16.96	3.00
1997	73.21	45.37	19.10	15.58	12.60	2.87	80.83	52.15	24.52	20.64	17.03	3.03
1998	73.29	45.44	19.15	15.63	12.64	2.89	80.91	52.23	24.59	20.70	17.09	3.05
1999	73.36	45.50	19.19	15.67	12.68	2.91	80.98	52.30	24.65	20.76	17.14	3.07
2000	73.42	45.56	19.24	15.71	12.71	2.93	81.05	52.36	24.70	20.81	17.19	3.09
2001	73.48	45.61	19.28	15.75	12.75	2.95	81.11	52.42	24.75	20.86	17.24	3.11
2002	73.53	45.66	19.32	15.79	12.78	2.96	81.17	52.47	24.80	20.91	17.29	3.13
2003	73.58	45.71	19.36	15.82	12.82	2.98	81.23	52.53	24.85	20.95	17.33	3.15
2004	73.63	45.76	19.40	15.86	12.85	3.00	81.29	52.58	24.90	21.00	17.37	3.17
2005	73.68	45.81	19.44	15.90	12.88	3.01	81.34	52.64	24.95	21.05	17.42	3.19
2006	73.73	45.85	19.48	15.93	12.92	3.03	81.40	52.69	25.00	21.09	17.46	3.21
2007	73.78	45.90	19.52	15.97	12.95	3.04	81.46	52.74	25.04	21.14	17.50	3.22
2008	73.83	45.94	19.56	16.01	12.98	3.06	81.51	52.79	25.09	21.18	17.55	3.24
2009	73.88	45.99	19.60	16.04	13.02	3.08	81.57	52.84	25.14	21.23	17.59	3.26
2010	73.93	46.03	19.64	16.08	13.05	3.09	81.62	52.90	25.19	21.27	17.63	3.28
2011	73.98	46.08	19.68	16.12	13.08	3.11	81.68	52.95	25.23	21.32	17.67	3.30
2012	74.03	46.12	19.72	16.15	13.12	3.12	81.74	53.00	25.28	21.36	17.72	3.31
2013	74.08	46.17	19.76	16.19	13.15	3.14	81.79	53.05	25.33	21.41	17.76	3.33
2014	74.13	46.22	19.80	16.23	13.18	3.15	81.85	53.11	25.38	21.45	17.80	3.35
2015	74.17	46.26	19.84	16.26	13.22	3.17	81.90	53.16	25.42	21.50	17.84	3.37
2016	74.22	46.31	19.87	16.30	13.25	3.19	81.96	53.21	25.47	21.54	17.89	3.39
2017	74.27	46.35	19.91	16.34	13.28	3.20	82.01	53.26	25.52	21.59	17.93	3.41
2018	74.32	46.40	19.95	16.37	13.32	3.22	82.07	53.31	25.57	21.64	17.97	3.43
2019	74.37	46.44	19.99	16.41	13.35	3.24	82.13	53.37	25.62	21.68	18.01	3.44

Table 5. Life Expectancies at Selected Exact Ages, by Sex and Calendar Year

Calendar Year	Sex and Exact Age											
	Male						Female					
	0	30	60	65	70	100	0	30	60	65	70	100
2020	74.42	46.49	20.03	16.45	13.38	3.25	82.18	53.42	25.66	21.73	18.06	3.46
2021	74.47	46.53	20.07	16.48	13.42	3.27	82.24	53.47	25.71	21.77	18.10	3.48
2022	74.51	46.58	20.11	16.52	13.45	3.28	82.29	53.52	25.76	21.82	18.14	3.50
2023	74.56	46.62	20.15	16.56	13.49	3.30	82.35	53.58	25.81	21.86	18.19	3.52
2024	74.61	46.67	20.19	16.59	13.52	3.32	82.40	53.63	25.85	21.91	18.23	3.54
2025	74.66	46.71	20.23	16.63	13.55	3.33	82.46	53.68	25.90	21.95	18.27	3.56
2026	74.71	46.76	20.27	16.67	13.59	3.35	82.51	53.73	25.95	22.00	18.31	3.58
2027	74.75	46.80	20.31	16.70	13.62	3.37	82.57	53.78	26.00	22.05	18.36	3.60
2028	74.80	46.85	20.35	16.74	13.65	3.38	82.63	53.84	26.05	22.09	18.40	3.62
2029	74.85	46.89	20.38	16.78	13.69	3.40	82.68	53.89	26.09	22.14	18.44	3.64
2030	74.90	46.94	20.42	16.81	13.72	3.42	82.74	53.94	26.14	22.18	18.49	3.66
2031	74.94	46.98	20.46	16.85	13.75	3.43	82.79	53.99	26.19	22.23	18.53	3.68
2032	74.99	47.03	20.50	16.89	13.79	3.45	82.85	54.05	26.24	22.28	18.57	3.70
2033	75.04	47.07	20.54	16.92	13.82	3.47	82.90	54.10	26.29	22.32	18.62	3.72
2034	75.09	47.12	20.58	16.96	13.85	3.48	82.96	54.15	26.33	22.37	18.66	3.74
2035	75.14	47.16	20.62	17.00	13.89	3.50	83.01	54.20	26.38	22.41	18.70	3.76
2036	75.18	47.20	20.66	17.03	13.92	3.52	83.07	54.25	26.43	22.46	18.75	3.78
2037	75.23	47.25	20.70	17.07	13.96	3.53	83.12	54.31	26.48	22.51	18.79	3.80
2038	75.28	47.29	20.74	17.11	13.99	3.55	83.18	54.36	26.53	22.55	18.83	3.82
2039	75.32	47.34	20.78	17.14	14.02	3.57	83.24	54.41	26.57	22.60	18.88	3.84
2040	75.37	47.38	20.82	17.18	14.06	3.59	83.29	54.46	26.62	22.64	18.92	3.86
2041	75.42	47.43	20.85	17.22	14.09	3.60	83.35	54.52	26.67	22.69	18.96	3.88
2042	75.47	47.47	20.89	17.25	14.12	3.62	83.40	54.57	26.72	22.74	19.01	3.90
2043	75.51	47.52	20.93	17.29	14.16	3.64	83.46	54.62	26.77	22.78	19.05	3.92
2044	75.56	47.56	20.97	17.33	14.19	3.65	83.51	54.67	26.82	22.83	19.10	3.94
2045	75.61	47.60	21.01	17.36	14.23	3.67	83.57	54.73	26.86	22.87	19.14	3.96
2046	75.65	47.65	21.05	17.40	14.26	3.69	83.62	54.78	26.91	22.92	19.18	3.98
2047	75.70	47.69	21.09	17.44	14.29	3.71	83.68	54.83	26.96	22.97	19.23	4.00
2048	75.75	47.74	21.13	17.47	14.33	3.72	83.73	54.88	27.01	23.01	19.27	4.02
2049	75.79	47.78	21.17	17.51	14.36	3.74	83.79	54.94	27.06	23.06	19.31	4.04
2050	75.84	47.83	21.21	17.55	14.39	3.76	83.84	54.99	27.11	23.11	19.36	4.06

Table 6. Life Endurances at Selected Survival Rates, by Sex and Calendar Year

Calendar Year	Sex and Survival Rate											
	Male						Female					
	.5	.1	.01	.001	.0001	.00001	.5	.1	.01	.001	.0001	.00001
1900	55.31	80.91	90.91	96.80	101.19	104.77	58.27	82.33	92.20	97.73	101.91	105.38
1901	56.52	81.04	90.91	96.82	101.26	104.85	60.19	82.54	92.30	97.82	102.01	105.54
1902	58.09	81.85	91.94	97.96	102.56	106.20	61.77	83.71	93.68	99.25	103.57	106.99
1903	58.14	81.41	91.36	97.26	101.71	105.29	61.53	83.11	92.78	98.28	102.52	105.92
1904	56.84	80.67	90.51	96.26	100.59	104.00	60.56	82.49	92.08	97.47	101.54	104.84
1905	57.74	81.18	91.00	96.74	100.94	104.44	61.45	82.95	92.51	97.79	101.81	105.08
1906	57.09	81.22	91.25	96.93	101.16	104.63	61.83	83.25	92.71	97.94	101.95	105.29
1907	56.80	80.54	90.55	96.27	100.49	103.87	61.87	82.57	91.96	97.26	101.26	104.57
1908	59.35	81.79	91.80	97.55	101.79	105.26	63.45	83.64	92.97	98.37	102.47	105.80
1909	60.39	82.05	91.93	97.63	101.83	105.27	64.32	83.89	93.27	98.54	102.59	105.86
1910	59.21	81.50	91.53	97.28	101.57	104.97	63.55	83.32	92.79	98.14	102.25	105.63
1911	60.59	81.89	91.87	97.65	101.92	105.47	64.52	83.64	93.00	98.45	102.61	105.94
1912	60.95	81.97	92.01	97.84	102.18	105.73	65.20	83.82	93.28	98.72	102.87	106.29
1913	60.41	82.00	92.19	98.03	102.48	105.98	65.02	83.93	93.50	98.95	103.18	106.65
1914	61.53	82.30	92.46	98.38	102.82	106.46	65.56	84.16	93.73	99.27	103.57	106.98
1915	62.03	82.15	92.06	97.86	102.22	105.77	65.75	83.80	93.38	98.79	102.94	106.39
1916	60.85	81.69	91.69	97.51	101.83	105.37	65.14	83.49	92.93	98.40	102.57	105.92
1917	60.41	81.55	91.67	97.59	101.95	105.58	64.98	83.48	93.05	98.57	102.77	106.19
1918	48.49	80.43	91.88	98.21	102.87	106.65	56.03	82.77	93.46	99.29	103.74	107.34
1919	63.06	83.57	93.42	99.23	103.67	107.24	65.40	84.78	94.42	99.93	104.23	107.73
1920	63.80	82.93	92.42	98.02	102.34	105.81	65.30	83.91	93.23	98.65	102.80	106.17
1921	66.17	84.01	93.30	98.93	103.29	106.81	67.88	85.09	93.99	99.49	103.71	107.12
1922	65.47	83.25	92.47	98.09	102.43	105.89	67.63	84.58	93.28	98.70	102.87	106.31
1923	64.76	82.77	91.71	97.22	101.45	104.85	67.23	84.05	92.52	97.81	101.88	105.24
1924	65.31	83.18	92.30	97.93	102.27	105.78	68.12	84.79	93.34	98.71	102.86	106.28
1925	65.25	83.02	91.93	97.45	101.63	104.98	67.97	84.68	92.96	98.17	102.21	105.55
1926	64.67	82.51	91.49	96.86	100.90	104.24	67.42	84.18	92.55	97.63	101.55	104.75
1927	65.64	83.30	92.53	97.91	101.98	105.38	68.54	85.18	93.74	98.80	102.73	105.92
1928	64.62	82.45	91.64	96.89	100.80	103.96	67.66	84.35	92.86	97.76	101.51	104.60
1929	64.63	82.61	91.94	97.19	101.02	104.25	67.87	84.57	93.28	98.08	101.81	104.86
1930	65.28	83.38	92.97	98.44	102.55	105.87	68.78	85.51	94.45	99.47	103.37	106.60
1931	65.71	83.66	93.20	98.63	102.74	106.04	69.33	85.89	94.85	99.83	103.73	106.89
1932	66.39	83.64	92.96	98.37	102.45	105.77	69.78	85.68	94.43	99.39	103.26	106.48
1933	66.46	83.83	93.33	98.78	102.89	106.30	70.17	86.13	94.96	99.94	103.86	107.04
1934	65.88	83.48	93.12	98.64	102.77	106.13	70.03	85.96	94.85	99.85	103.78	106.95
1935	66.23	83.67	93.22	98.66	102.75	106.05	70.34	86.25	94.93	99.87	103.75	106.90
1936	65.48	82.90	92.37	97.74	101.73	104.95	69.93	85.50	94.10	98.92	102.71	105.81
1937	65.95	83.32	92.92	98.33	102.37	105.69	70.54	86.11	94.75	99.61	103.41	106.56
1938	67.30	84.20	93.79	99.13	103.22	106.59	71.48	86.77	95.42	100.31	104.15	107.36
1939	67.62	84.11	93.42	98.71	102.73	105.96	71.83	86.64	95.07	99.89	103.71	106.82

Table 6. Life Endurances at Selected Survival Rates, by Sex and Calendar Year

Calendar Year	Sex and Survival Rate											
	Male						Female					
	.5	.1	.01	.001	.0001	.00001	.5	.1	.01	.001	.0001	.00001
1940	67.33	83.93	93.12	98.58	102.71	106.02	71.96	86.68	94.94	99.88	103.78	106.93
1941	67.74	84.39	93.61	98.98	103.15	106.58	72.57	87.34	95.68	100.62	104.48	107.65
1942	68.07	84.79	94.07	99.57	103.77	107.17	73.09	87.80	96.01	100.98	104.91	108.15
1943	67.94	84.30	93.27	98.59	102.66	105.93	72.89	87.19	95.31	100.14	103.90	106.98
1944	68.35	84.93	94.04	99.47	103.63	106.96	73.53	87.85	95.91	100.84	104.75	107.91
1945	68.41	85.26	94.34	99.71	103.83	107.20	74.04	88.34	96.35	101.22	105.03	108.24
1946	69.21	85.80	94.65	100.00	104.20	107.64	74.47	88.61	96.41	101.35	105.27	108.52
1947	69.34	85.61	94.31	99.64	103.75	107.06	74.74	88.57	96.33	101.14	104.95	108.10
1948	69.51	85.79	94.53	99.90	104.07	107.54	75.12	88.87	96.68	101.58	105.45	108.64
1949	69.81	86.02	95.02	100.63	104.91	108.46	75.45	89.27	97.18	102.23	106.23	109.55
1950	70.02	86.03	95.07	100.76	105.11	108.70	75.77	89.46	97.47	102.59	106.61	109.88
1951	70.01	86.05	95.36	101.08	105.56	109.10	76.00	89.56	97.64	102.83	106.91	110.28
1952	70.10	86.22	95.80	101.64	106.10	109.76	76.25	89.82	97.86	103.17	107.38	110.79
1953	70.21	86.18	95.67	101.41	105.83	109.45	76.51	89.87	97.85	103.02	107.15	110.55
1954	70.87	86.85	96.36	102.11	106.62	110.21	77.15	90.50	98.41	103.69	107.84	111.24
1955	70.87	86.62	95.86	101.44	105.76	109.27	77.24	90.24	97.90	102.95	106.96	110.31
1956	70.82	86.54	95.68	101.19	105.52	108.95	77.36	90.26	97.90	102.90	106.86	110.10
1957	70.46	86.35	95.42	100.91	105.22	108.73	77.23	90.09	97.73	102.72	106.67	109.88
1958	70.70	86.40	95.45	100.95	105.30	108.80	77.45	90.17	97.82	102.81	106.77	109.97
1959	70.85	86.61	95.66	101.27	105.64	109.13	77.77	90.44	98.13	103.19	107.16	110.46
1960	70.68	86.36	95.45	101.05	105.47	108.95	77.78	90.41	98.16	103.24	107.18	110.46
1961	71.02	86.68	95.59	101.18	105.56	109.03	78.14	90.65	98.34	103.41	107.33	110.58
1962	70.82	86.47	95.13	100.69	104.96	108.52	78.03	90.44	97.98	102.95	106.84	109.98
1963	70.56	86.17	94.79	100.30	104.59	107.99	77.97	90.33	97.87	102.85	106.68	109.79
1964	70.78	86.56	95.40	100.99	105.41	108.91	78.30	90.76	98.42	103.48	107.37	110.59
1965	70.72	86.43	95.20	100.80	105.12	108.68	78.39	90.81	98.47	103.52	107.36	110.52
1966	70.60	86.37	95.21	100.84	105.22	108.77	78.38	90.84	98.55	103.63	107.50	110.66
1967	70.84	86.64	95.59	101.29	105.72	109.30	78.69	91.26	99.02	104.20	108.05	111.27
1968	70.52	86.24	95.03	100.50	104.73	108.14	78.68	91.22	98.90	103.96	107.82	110.84
1969	70.81	86.58	95.55	101.12	105.51	108.97	79.04	91.66	99.52	104.72	108.65	111.72
1970	70.96	86.81	95.96	101.80	106.32	109.92	79.21	92.08	100.10	105.44	109.42	112.56
1971	71.22	86.83	95.88	101.71	106.20	109.84	79.37	92.03	100.01	105.36	109.33	112.47
1972	71.21	86.78	95.89	101.70	106.15	109.79	79.45	92.16	100.10	105.40	109.35	112.47
1973	71.44	86.95	95.91	101.59	105.94	109.56	79.70	92.31	100.12	105.36	109.26	112.35
1974	71.95	87.49	96.56	102.41	106.90	110.59	80.16	92.76	100.76	106.06	110.03	113.20
1975	72.37	87.90	97.06	102.98	107.61	111.29	80.61	93.36	101.39	106.75	110.76	113.89
1976	72.64	87.99	96.86	102.57	106.94	110.58	80.80	93.34	101.15	106.43	110.36	113.47
1977	72.95	88.31	97.35	103.16	107.71	111.36	81.11	93.79	101.69	106.96	110.93	114.02
1978	73.10	88.37	97.39	103.24	107.78	111.45	81.19	93.74	101.34	106.48	110.38	113.60
1979	73.43	88.75	97.84	103.78	108.37	112.00	81.55	94.22	102.21	107.59	111.61	114.76

Table 6. Life Endurances at Selected Survival Rates, by Sex and Calendar Year

Calendar Year	Sex and Survival Rate											
	Male						Female					
	.5	.1	.01	.001	.0001	.00001	.5	.1	.01	.001	.0001	.00001
1980	73.38	88.49	97.43	103.23	107.75	111.41	81.29	93.86	101.62	106.83	110.76	113.87
1981	73.74	88.88	97.72	103.53	107.97	111.66	81.51	94.16	101.74	106.87	110.76	113.89
1982	73.96	89.05	97.90	103.74	108.25	111.88	81.75	94.38	101.93	107.07	110.95	114.13
1983	74.17	89.24	98.09	103.94	108.52	112.14	81.98	94.59	102.15	107.32	111.21	114.43
1984	74.37	89.41	98.30	104.17	108.75	112.43	82.20	94.79	102.37	107.55	111.47	114.67
1985	74.57	89.58	98.50	104.42	108.95	112.69	82.42	94.97	102.58	107.75	111.69	114.88
1986	74.76	89.74	98.68	104.63	109.21	112.90	82.64	95.17	102.77	107.93	111.88	115.09
1987	74.95	89.89	98.85	104.83	109.47	113.15	82.85	95.37	102.94	108.14	112.09	115.39
1988	75.13	90.04	99.01	105.02	109.70	113.44	83.06	95.55	103.15	108.37	112.35	115.63
1989	75.30	90.20	99.21	105.26	109.90	113.68	83.26	95.73	103.35	108.57	112.58	115.83
1990	75.47	90.35	99.40	105.48	110.12	113.88	83.46	95.89	103.54	108.76	112.78	116.01
1991	75.63	90.49	99.57	105.68	110.38	114.11	83.64	96.05	103.71	108.92	112.95	116.30
1992	75.77	90.62	99.72	105.85	110.60	114.38	83.82	96.21	103.87	109.11	113.18	116.54
1993	75.91	90.73	99.86	106.01	110.79	114.61	83.98	96.36	104.02	109.31	113.40	116.74
1994	76.03	90.84	99.99	106.22	110.95	114.79	84.12	96.50	104.19	109.49	113.60	116.90
1995	76.14	90.94	100.14	106.40	111.15	114.95	84.24	96.61	104.34	109.65	113.76	117.08
1996	76.23	91.02	100.28	106.55	111.34	115.15	84.35	96.72	104.48	109.78	113.90	117.30
1997	76.31	91.11	100.39	106.68	111.50	115.34	84.44	96.81	104.60	109.90	114.02	117.48
1998	76.38	91.18	100.50	106.80	111.64	115.50	84.52	96.89	104.70	110.01	114.19	117.62
1999	76.44	91.25	100.59	106.90	111.76	115.64	84.59	96.96	104.79	110.14	114.34	117.75
2000	76.50	91.32	100.68	106.99	111.86	115.75	84.66	97.03	104.88	110.27	114.47	117.85
2001	76.55	91.38	100.76	107.10	111.95	115.85	84.72	97.10	104.96	110.38	114.58	117.94
2002	76.61	91.44	100.83	107.21	112.05	115.94	84.78	97.17	105.04	110.48	114.68	118.04
2003	76.66	91.50	100.90	107.32	112.18	116.04	84.84	97.23	105.14	110.57	114.77	118.18
2004	76.70	91.56	100.97	107.41	112.29	116.18	84.90	97.29	105.23	110.66	114.86	118.31
2005	76.75	91.62	101.05	107.51	112.40	116.30	84.96	97.36	105.31	110.75	114.94	118.43
2006	76.80	91.68	101.14	107.60	112.50	116.42	85.01	97.42	105.40	110.83	115.02	118.54
2007	76.85	91.73	101.22	107.68	112.60	116.53	85.07	97.48	105.48	110.91	115.15	118.64
2008	76.90	91.79	101.30	107.76	112.69	116.63	85.12	97.53	105.56	110.98	115.26	118.73
2009	76.95	91.84	101.38	107.84	112.78	116.72	85.18	97.59	105.63	111.08	115.37	118.82
2010	77.00	91.90	101.46	107.92	112.87	116.81	85.24	97.65	105.71	111.19	115.47	118.90
2011	77.04	91.95	101.53	108.00	112.95	116.89	85.29	97.71	105.78	111.29	115.57	118.98
2012	77.09	92.01	101.61	108.10	113.04	116.97	85.35	97.76	105.86	111.39	115.66	119.09
2013	77.14	92.07	101.68	108.20	113.16	117.09	85.40	97.82	105.93	111.48	115.75	119.22
2014	77.18	92.13	101.75	108.30	113.27	117.22	85.46	97.88	106.00	111.57	115.84	119.34
2015	77.23	92.19	101.82	108.40	113.38	117.34	85.51	97.93	106.09	111.66	115.92	119.45
2016	77.28	92.25	101.89	108.49	113.48	117.45	85.57	97.99	106.17	111.74	115.99	119.56
2017	77.32	92.31	101.96	108.58	113.58	117.55	85.63	98.05	106.26	111.82	116.11	119.66
2018	77.37	92.37	102.04	108.66	113.67	117.65	85.68	98.11	106.35	111.90	116.23	119.75
2019	77.42	92.42	102.12	108.75	113.76	117.75	85.74	98.18	106.43	111.97	116.34	119.84

Table 6. Life Endurances at Selected Survival Rates, by Sex and Calendar Year

Calendar Year	Sex and Survival Rate											
	Male						Female					
	.5	.1	.01	.001	.0001	.00001	.5	.1	.01	.001	.0001	.00001
2020	77.46	92.48	102.21	108.83	113.84	117.83	85.79	98.24	106.51	112.07	116.44	119.92
2021	77.51	92.54	102.29	108.91	113.93	117.92	85.85	98.30	106.59	112.18	116.54	119.99
2022	77.56	92.60	102.37	108.99	114.01	118.00	85.91	98.36	106.67	112.28	116.64	120.12
2023	77.61	92.65	102.45	109.09	114.13	118.12	85.96	98.43	106.74	112.38	116.73	120.25
2024	77.65	92.71	102.53	109.19	114.24	118.25	86.02	98.49	106.82	112.47	116.81	120.37
2025	77.70	92.76	102.60	109.29	114.35	118.37	86.07	98.55	106.89	112.56	116.90	120.48
2026	77.75	92.82	102.68	109.38	114.45	118.48	86.13	98.61	106.96	112.65	116.97	120.58
2027	77.79	92.88	102.75	109.48	114.55	118.58	86.18	98.67	107.05	112.74	117.08	120.68
2028	77.84	92.93	102.82	109.57	114.65	118.68	86.24	98.73	107.14	112.82	117.20	120.77
2029	77.89	92.98	102.89	109.65	114.74	118.77	86.29	98.78	107.23	112.90	117.31	120.86
2030	77.93	93.04	102.96	109.74	114.82	118.86	86.35	98.84	107.31	112.97	117.42	120.94
2031	77.98	93.10	103.04	109.82	114.91	118.94	86.40	98.90	107.40	113.07	117.52	121.02
2032	78.03	93.16	103.13	109.90	114.99	119.03	86.46	98.96	107.48	113.18	117.62	121.15
2033	78.07	93.22	103.21	109.98	115.10	119.16	86.51	99.02	107.56	113.28	117.71	121.28
2034	78.12	93.28	103.30	110.07	115.21	119.28	86.57	99.08	107.64	113.38	117.80	121.40
2035	78.17	93.34	103.38	110.18	115.32	119.40	86.62	99.15	107.72	113.48	117.88	121.51
2036	78.21	93.40	103.46	110.28	115.43	119.50	86.68	99.21	107.80	113.57	117.96	121.61
2037	78.26	93.46	103.53	110.37	115.53	119.61	86.74	99.28	107.87	113.66	118.06	121.70
2038	78.30	93.51	103.61	110.47	115.62	119.70	86.79	99.34	107.94	113.74	118.18	121.79
2039	78.35	93.57	103.69	110.56	115.71	119.79	86.85	99.41	108.02	113.83	118.29	121.88
2040	78.40	93.63	103.76	110.65	115.80	119.88	86.90	99.47	108.12	113.90	118.40	121.96
2041	78.44	93.69	103.83	110.73	115.89	119.96	86.96	99.53	108.21	113.98	118.50	122.06
2042	78.49	93.74	103.91	110.81	115.97	120.06	87.01	99.59	108.29	114.08	118.60	122.19
2043	78.53	93.80	103.98	110.89	116.07	120.19	87.07	99.66	108.38	114.19	118.69	122.31
2044	78.58	93.85	104.06	110.97	116.19	120.31	87.12	99.72	108.47	114.29	118.78	122.43
2045	78.63	93.91	104.15	111.07	116.30	120.42	87.17	99.78	108.55	114.39	118.86	122.53
2046	78.67	93.96	104.23	111.17	116.40	120.53	87.23	99.84	108.63	114.49	118.94	122.63
2047	78.72	94.02	104.31	111.27	116.50	120.63	87.28	99.90	108.71	114.58	119.04	122.73
2048	78.76	94.08	104.39	111.37	116.60	120.72	87.34	99.96	108.79	114.67	119.16	122.82
2049	78.81	94.14	104.48	111.46	116.69	120.81	87.39	100.02	108.86	114.76	119.27	122.90
2050	78.86	94.20	104.55	111.55	116.78	120.90	87.44	100.09	108.94	114.84	119.38	122.98

Table 7. Cohort Life Expectancies at Selected Exact Ages by Sex and Year of Birth

Year of Birth	Sex and Exact Age											
	Male						Female					
	0	30	60	65	70	100	0	30	60	65	70	100
1900	51.75	39.41	16.45	13.59	11.14	2.97	58.59	45.99	21.86	18.33	15.06	3.14
1901	53.11	39.59	16.53	13.69	11.23	2.98	60.04	46.31	22.04	18.52	15.21	3.16
1902	53.58	39.77	16.60	13.79	11.33	3.00	60.65	46.65	22.22	18.70	15.37	3.18
1903	54.10	39.95	16.68	13.88	11.44	3.02	61.35	46.98	22.41	18.87	15.53	3.19
1904	54.11	40.12	16.78	13.99	11.55	3.03	61.54	47.31	22.59	19.03	15.67	3.21
1905	54.25	40.30	16.88	14.10	11.64	3.05	61.82	47.62	22.76	19.18	15.81	3.23
1906	54.48	40.48	16.99	14.21	11.73	3.07	62.16	47.90	22.91	19.32	15.93	3.25
1907	55.19	40.67	17.11	14.32	11.81	3.08	62.92	48.16	23.06	19.46	16.05	3.27
1908	55.80	40.86	17.23	14.43	11.89	3.10	63.60	48.40	23.19	19.59	16.16	3.29
1909	56.41	41.03	17.36	14.55	11.97	3.11	64.29	48.61	23.33	19.72	16.27	3.30
1910	56.55	41.20	17.49	14.65	12.04	3.13	64.57	48.81	23.46	19.83	16.38	3.32
1911	57.80	41.36	17.61	14.74	12.12	3.15	65.85	49.00	23.58	19.94	16.50	3.34
1912	58.10	41.54	17.73	14.83	12.19	3.16	66.27	49.19	23.69	20.04	16.61	3.36
1913	58.30	41.71	17.85	14.91	12.26	3.18	66.58	49.37	23.81	20.15	16.72	3.38
1914	58.99	41.89	17.97	14.99	12.33	3.19	67.28	49.57	23.93	20.25	16.82	3.40
1915	59.31	42.07	18.08	15.07	12.39	3.21	67.72	49.75	24.04	20.34	16.92	3.42
1916	59.48	42.29	18.20	15.15	12.45	3.23	67.96	49.94	24.15	20.44	17.00	3.44
1917	59.61	42.48	18.31	15.23	12.51	3.24	68.07	50.12	24.25	20.53	17.09	3.46
1918	60.21	42.66	18.42	15.30	12.56	3.26	68.85	50.28	24.35	20.62	17.16	3.48
1919	61.65	42.84	18.53	15.37	12.61	3.28	70.25	50.44	24.44	20.70	17.23	3.49
1920	62.00	43.00	18.63	15.44	12.66	3.29	70.72	50.58	24.52	20.78	17.30	3.51
1921	62.96	43.14	18.73	15.51	12.71	3.31	71.61	50.70	24.60	20.85	17.36	3.53
1922	63.31	43.27	18.81	15.57	12.75	3.33	71.97	50.82	24.68	20.92	17.41	3.55
1923	63.50	43.39	18.89	15.63	12.80	3.34	72.14	50.93	24.75	20.98	17.47	3.57
1924	63.97	43.51	18.97	15.69	12.84	3.36	72.66	51.02	24.82	21.04	17.52	3.59
1925	64.24	43.62	19.05	15.74	12.88	3.38	72.89	51.12	24.88	21.10	17.57	3.61
1926	64.49	43.74	19.12	15.79	12.91	3.39	73.13	51.22	24.94	21.15	17.61	3.63
1927	65.19	43.86	19.19	15.84	12.95	3.41	73.82	51.32	25.00	21.20	17.66	3.65
1928	65.22	44.00	19.26	15.89	12.99	3.43	73.90	51.43	25.06	21.25	17.70	3.67
1929	65.65	44.13	19.32	15.93	13.02	3.44	74.27	51.54	25.12	21.30	17.75	3.69
1930	66.08	44.27	19.38	15.98	13.06	3.46	74.66	51.65	25.17	21.35	17.79	3.71
1931	66.61	44.40	19.44	16.02	13.09	3.48	75.18	51.75	25.22	21.39	17.84	3.73
1932	66.97	44.52	19.49	16.06	13.13	3.50	75.50	51.85	25.27	21.44	17.88	3.75
1933	67.15	44.64	19.55	16.10	13.16	3.51	75.66	51.96	25.33	21.49	17.92	3.77
1934	67.04	44.76	19.59	16.14	13.20	3.53	75.85	52.07	25.38	21.54	17.97	3.79
1935	67.54	44.87	19.64	16.18	13.23	3.55	76.20	52.18	25.43	21.58	18.01	3.81
1936	67.64	44.98	19.69	16.21	13.27	3.56	76.29	52.29	25.48	21.63	18.06	3.83
1937	67.97	45.09	19.73	16.25	13.30	3.58	76.61	52.40	25.53	21.68	18.10	3.86
1938	68.39	45.20	19.77	16.29	13.33	3.60	77.05	52.51	25.57	21.73	18.15	3.88
1939	68.93	45.31	19.81	16.33	13.37	3.62	77.53	52.61	25.62	21.77	18.19	3.90

Table 7. Cohort Life Expectancies at Selected Exact Ages by Sex and Year of Birth

Year of Birth	Sex and Exact Age											
	Male						Female					
	0	30	60	65	70	100	0	30	60	65	70	100
1940	68.35	45.41	19.85	16.37	13.40	3.63	77.09	52.71	25.67	21.82	18.24	3.92
1941	68.75	45.52	19.90	16.40	13.44	3.65	77.39	52.81	25.72	21.87	18.28	3.94
1942	69.18	45.62	19.94	16.44	13.47	3.67	77.80	52.91	25.77	21.92	18.33	3.96
1943	69.72	45.72	19.98	16.48	13.51	3.69	78.34	53.01	25.82	21.96	18.37	3.98
1944	69.88	45.81	20.02	16.52	13.54	3.70	78.46	53.11	25.87	22.01	18.42	4.00
1945	70.11	45.90	20.06	16.56	13.58	3.72	78.75	53.20	25.92	22.06	18.46	4.02
1946	69.88	45.98	20.10	16.59	13.61	3.74	78.64	53.28	25.97	22.11	18.51	4.04
1947	70.93	46.05	20.14	16.63	13.65	3.76	79.58	53.37	26.02	22.15	18.55	4.07
1948	70.92	46.13	20.18	16.67	13.68	3.78	79.60	53.45	26.07	22.20	18.60	4.09
1949	71.04	46.20	20.22	16.71	13.72	3.79	79.74	53.53	26.12	22.25	18.64	4.11
1950	71.29	46.27	20.26	16.75	13.75	3.81	79.99	53.60	26.18	22.30	18.69	4.13
1951	71.41	46.35	20.30	16.78	13.78	3.83	80.13	53.68	26.23	22.35	18.73	4.15
1952	71.54	46.42	20.34	16.82	13.82	3.85	80.24	53.75	26.28	22.39	18.78	4.17
1953	71.74	46.49	20.38	16.86	13.85	3.87	80.44	53.82	26.33	22.44	18.82	4.20
1954	71.94	46.55	20.43	16.90	13.89	3.88	80.62	53.89	26.38	22.49	18.87	4.22
1955	72.09	46.62	20.47	16.94	13.92	3.90	80.76	53.96	26.43	22.54	18.91	4.24
1956	72.18	46.68	20.51	16.97	13.96	3.92	80.87	54.03	26.48	22.59	18.96	4.26
1957	72.30	46.74	20.55	17.01	13.99	3.94	80.95	54.09	26.53	22.63	19.00	4.28
1958	72.38	46.80	20.59	17.05	14.03	3.96	81.02	54.15	26.58	22.68	19.05	4.31
1959	72.51	46.85	20.63	17.09	14.06	3.98	81.16	54.21	26.63	22.73	19.09	4.33
1960	72.62	46.91	20.67	17.13	14.10	3.99	81.28	54.28	26.68	22.78	19.14	4.35
1961	72.80	46.96	20.71	17.16	14.13	4.01	81.43	54.33	26.73	22.83	19.19	4.37
1962	72.87	47.02	20.75	17.20	14.17	4.03	81.52	54.39	26.78	22.88	19.23	4.40
1963	72.96	47.07	20.79	17.24	14.20	4.05	81.60	54.45	26.83	22.92	19.28	4.42
1964	73.09	47.12	20.83	17.28	14.24	4.07	81.70	54.51	26.88	22.97	19.32	4.44
1965	73.22	47.17	20.87	17.32	14.27	4.09	81.82	54.57	26.93	23.02	19.37	4.46
1966	73.36	47.22	20.91	17.35	14.31	4.11	81.94	54.62	26.98	23.07	19.41	4.49
1967	73.53	47.27	20.95	17.39	14.34	4.12	82.09	54.68	27.03	23.12	19.46	4.51
1968	73.62	47.31	20.99	17.43	14.38	4.14	82.19	54.73	27.08	23.17	19.51	4.53
1969	73.75	47.36	21.03	17.47	14.41	4.16	82.31	54.79	27.13	23.22	19.55	4.55
1970	73.89	47.41	21.08	17.51	14.45	4.18	82.42	54.84	27.19	23.26	19.60	4.58
1971	74.16	47.45	21.12	17.54	14.48	4.20	82.66	54.90	27.24	23.31	19.64	4.60
1972	74.28	47.50	21.16	17.58	14.52	4.21	82.78	54.96	27.29	23.36	19.69	4.62
1973	74.39	47.55	21.20	17.62	14.55	4.23	82.88	55.01	27.34	23.41	19.73	4.64
1974	74.51	47.59	21.24	17.66	14.59	4.25	82.98	55.07	27.39	23.46	19.78	4.66
1975	74.69	47.64	21.28	17.69	14.62	4.26	83.12	55.12	27.44	23.51	19.83	4.68
1976	74.80	47.69	21.32	17.73	14.65	4.28	83.21	55.17	27.49	23.55	19.87	4.69
1977	74.94	47.73	21.36	17.77	14.69	4.29	83.38	55.23	27.54	23.60	19.92	4.71
1978	75.06	47.78	21.40	17.81	14.72	4.30	83.47	55.28	27.59	23.65	19.96	4.72
1979	75.14	47.83	21.44	17.84	14.76	4.30	83.60	55.34	27.64	23.69	20.00	4.73

Table 8. Cohort Life Endurances at Selected Survival Rates, by Sex and Year of Birth

Year of Birth	Sex and Survival Rate											
	Male						Female					
	.5	.1	.01	.001	.0001	.00001	.5	.1	.01	.001	.0001	.00001
1900	62.99	85.86	97.30	104.59	110.19	114.72	71.62	93.00	102.48	108.73	113.53	117.46
1901	63.90	86.22	97.57	104.82	110.43	114.90	72.66	93.38	102.74	108.93	113.73	117.66
1902	64.23	86.45	97.76	104.99	110.61	115.06	73.25	93.65	102.93	109.13	113.89	117.82
1903	64.59	86.68	97.94	105.20	110.78	115.26	73.91	93.92	103.15	109.33	114.05	117.95
1904	64.66	86.84	98.10	105.37	110.91	115.43	74.27	94.14	103.33	109.50	114.23	118.12
1905	64.82	87.02	98.28	105.53	111.06	115.58	74.65	94.35	103.50	109.65	114.41	118.30
1906	65.02	87.22	98.44	105.68	111.23	115.73	74.99	94.54	103.66	109.80	114.56	118.47
1907	65.49	87.47	98.62	105.84	111.42	115.87	75.49	94.76	103.82	109.94	114.71	118.62
1908	65.88	87.69	98.79	105.98	111.58	115.99	75.96	94.95	103.97	110.09	114.84	118.76
1909	66.31	87.91	98.94	106.16	111.73	116.18	76.41	95.14	104.14	110.26	114.97	118.88
1910	66.50	88.06	99.07	106.31	111.85	116.34	76.68	95.28	104.28	110.40	115.11	118.99
1911	67.28	88.35	99.28	106.50	112.00	116.52	77.40	95.50	104.46	110.57	115.30	119.18
1912	67.58	88.51	99.42	106.63	112.16	116.65	77.74	95.64	104.59	110.69	115.44	119.34
1913	67.82	88.66	99.55	106.75	112.31	116.77	78.04	95.76	104.71	110.81	115.57	119.48
1914	68.29	88.85	99.70	106.89	112.47	116.90	78.52	95.90	104.83	110.93	115.70	119.61
1915	68.60	89.00	99.82	107.01	112.60	117.01	78.89	96.03	104.95	111.04	115.82	119.74
1916	68.87	89.14	99.93	107.15	112.72	117.17	79.17	96.14	105.06	111.18	115.92	119.84
1917	69.12	89.28	100.04	107.29	112.84	117.33	79.39	96.24	105.17	111.31	116.02	119.94
1918	69.60	89.46	100.20	107.44	112.96	117.48	79.87	96.38	105.32	111.45	116.18	120.07
1919	70.40	89.72	100.41	107.62	113.15	117.64	80.54	96.57	105.48	111.60	116.35	120.25
1920	70.73	89.85	100.53	107.74	113.30	117.76	80.84	96.67	105.59	111.71	116.48	120.40
1921	71.27	90.04	100.68	107.88	113.46	117.89	81.25	96.81	105.72	111.83	116.62	120.54
1922	71.55	90.17	100.79	107.99	113.58	117.99	81.47	96.90	105.82	111.93	116.73	120.65
1923	71.77	90.28	100.89	108.12	113.70	118.14	81.62	96.97	105.91	112.02	116.82	120.76
1924	72.08	90.41	101.00	108.26	113.82	118.30	81.88	97.08	106.01	112.16	116.93	120.87
1925	72.31	90.52	101.12	108.38	113.92	118.43	82.04	97.17	106.12	112.28	117.03	120.96
1926	72.54	90.62	101.23	108.50	114.03	118.56	82.19	97.25	106.23	112.40	117.17	121.08
1927	72.92	90.77	101.37	108.63	114.19	118.69	82.48	97.37	106.35	112.52	117.31	121.24
1928	73.06	90.85	101.47	108.73	114.32	118.80	82.58	97.44	106.45	112.62	117.43	121.37
1929	73.33	90.97	101.59	108.85	114.45	118.91	82.76	97.53	106.55	112.73	117.55	121.50
1930	73.59	91.09	101.70	108.95	114.58	119.01	82.95	97.62	106.65	112.83	117.66	121.62
1931	73.87	91.22	101.81	109.08	114.70	119.17	83.16	97.72	106.76	112.93	117.77	121.73
1932	74.08	91.33	101.91	109.21	114.81	119.31	83.32	97.80	106.85	113.03	117.87	121.83
1933	74.23	91.41	102.00	109.33	114.91	119.44	83.43	97.87	106.93	113.15	117.96	121.92
1934	74.28	91.47	102.09	109.43	115.00	119.56	83.49	97.93	107.01	113.26	118.07	122.02
1935	74.52	91.59	102.21	109.55	115.14	119.68	83.71	98.03	107.14	113.38	118.21	122.17
1936	74.62	91.66	102.31	109.65	115.27	119.78	83.80	98.11	107.24	113.49	118.33	122.31
1937	74.79	91.76	102.41	109.76	115.40	119.89	83.95	98.20	107.34	113.60	118.46	122.44
1938	74.99	91.86	102.52	109.86	115.52	119.99	84.12	98.29	107.45	113.70	118.57	122.56
1939	75.21	91.97	102.64	109.97	115.64	120.13	84.30	98.39	107.56	113.81	118.69	122.68

Table 8. Cohort Life Endurances at Selected Survival Rates, by Sex and Year of Birth

Year of Birth	Sex and Survival Rate											
	Male						Female					
	.5	.1	.01	.001	.0001	.00001	.5	.1	.01	.001	.0001	.00001
1940	75.10	91.98	102.69	110.05	115.73	120.25	84.25	98.42	107.63	113.88	118.77	122.77
1941	75.28	92.08	102.79	110.17	115.83	120.39	84.38	98.51	107.72	113.97	118.87	122.87
1942	75.46	92.18	102.88	110.30	115.93	120.51	84.54	98.60	107.82	114.10	118.97	122.96
1943	75.67	92.29	102.99	110.43	116.05	120.64	84.73	98.69	107.92	114.23	119.09	123.09
1944	75.77	92.37	103.08	110.53	116.18	120.74	84.82	98.76	108.00	114.34	119.22	123.23
1945	75.88	92.45	103.19	110.63	116.31	120.84	84.95	98.84	108.11	114.45	119.35	123.36
1946	75.86	92.49	103.26	110.72	116.41	120.93	84.97	98.89	108.20	114.55	119.46	123.48
1947	76.20	92.64	103.40	110.84	116.55	121.06	85.25	99.01	108.34	114.67	119.59	123.61
1948	76.24	92.70	103.49	110.93	116.65	121.20	85.30	99.08	108.43	114.76	119.69	123.71
1949	76.32	92.76	103.58	111.02	116.76	121.33	85.39	99.16	108.52	114.85	119.79	123.81
1950	76.43	92.84	103.67	111.14	116.86	121.45	85.49	99.24	108.62	114.95	119.88	123.91
1951	76.50	92.91	103.75	111.25	116.95	121.57	85.58	99.32	108.71	115.04	119.97	123.99
1952	76.58	92.97	103.84	111.36	117.05	121.68	85.65	99.39	108.79	115.16	120.09	124.13
1953	76.68	93.05	103.92	111.47	117.18	121.78	85.75	99.46	108.88	115.28	120.22	124.27
1954	76.77	93.13	104.01	111.57	117.31	121.88	85.84	99.54	108.96	115.39	120.34	124.40
1955	76.85	93.20	104.10	111.67	117.42	121.97	85.92	99.61	109.06	115.50	120.46	124.52
1956	76.92	93.27	104.20	111.76	117.53	122.09	85.99	99.68	109.16	115.60	120.57	124.63
1957	76.99	93.34	104.29	111.86	117.64	122.23	86.06	99.75	109.26	115.69	120.67	124.73
1958	77.05	93.40	104.38	111.94	117.74	122.35	86.12	99.81	109.35	115.79	120.77	124.82
1959	77.13	93.47	104.47	112.04	117.84	122.47	86.20	99.88	109.45	115.88	120.86	124.89
1960	77.20	93.54	104.56	112.16	117.93	122.57	86.27	99.95	109.54	115.97	120.95	124.96
1961	77.28	93.61	104.65	112.27	118.03	122.67	86.35	100.02	109.63	116.07	121.06	125.04
1962	77.34	93.68	104.73	112.37	118.15	122.75	86.42	100.10	109.72	116.19	121.17	125.14
1963	77.40	93.74	104.81	112.48	118.27	122.82	86.48	100.17	109.81	116.30	121.27	125.23
1964	77.48	93.81	104.90	112.58	118.38	122.89	86.55	100.24	109.89	116.41	121.36	125.31
1965	77.55	93.87	104.98	112.67	118.48	122.95	86.63	100.32	109.97	116.51	121.45	125.38
1966	77.62	93.94	105.07	112.77	118.57	123.01	86.70	100.39	110.07	116.60	121.52	125.44
1967	77.70	94.01	105.17	112.86	118.65	123.09	86.78	100.47	110.18	116.69	121.59	125.50
1968	77.76	94.07	105.26	112.95	118.72	123.16	86.85	100.54	110.27	116.76	121.65	125.55
1969	77.83	94.15	105.35	113.04	118.78	123.23	86.92	100.61	110.37	116.83	121.70	125.60
1970	77.91	94.22	105.45	113.14	118.84	123.29	86.99	100.68	110.47	116.89	121.75	125.64
1971	78.02	94.30	105.54	113.24	118.90	123.35	87.09	100.76	110.56	116.95	121.80	125.68
1972	78.08	94.37	105.63	113.33	118.95	123.40	87.16	100.83	110.64	116.99	121.84	125.71
1973	78.15	94.43	105.72	113.40	119.00	123.45	87.22	100.90	110.72	117.06	121.87	125.74
1974	78.21	94.50	105.80	113.47	119.06	123.49	87.29	100.97	110.78	117.11	121.91	125.77
1975	78.29	94.57	105.88	113.54	119.12	123.53	87.36	101.04	110.84	117.17	121.94	125.80
1976	78.36	94.64	105.96	113.59	119.17	123.57	87.43	101.12	110.90	117.22	121.96	125.82
1977	78.43	94.71	106.04	113.65	119.22	123.60	87.51	101.20	110.95	117.26	121.99	125.84
1978	78.49	94.77	106.12	113.70	119.26	123.63	87.57	101.27	110.99	117.30	122.02	125.86
1979	78.55	94.83	106.19	113.74	119.30	123.66	87.65	101.35	111.04	117.33	122.05	125.88

Chart 1a.
Life Expectancy at Age 0, by Sex and Calendar Year

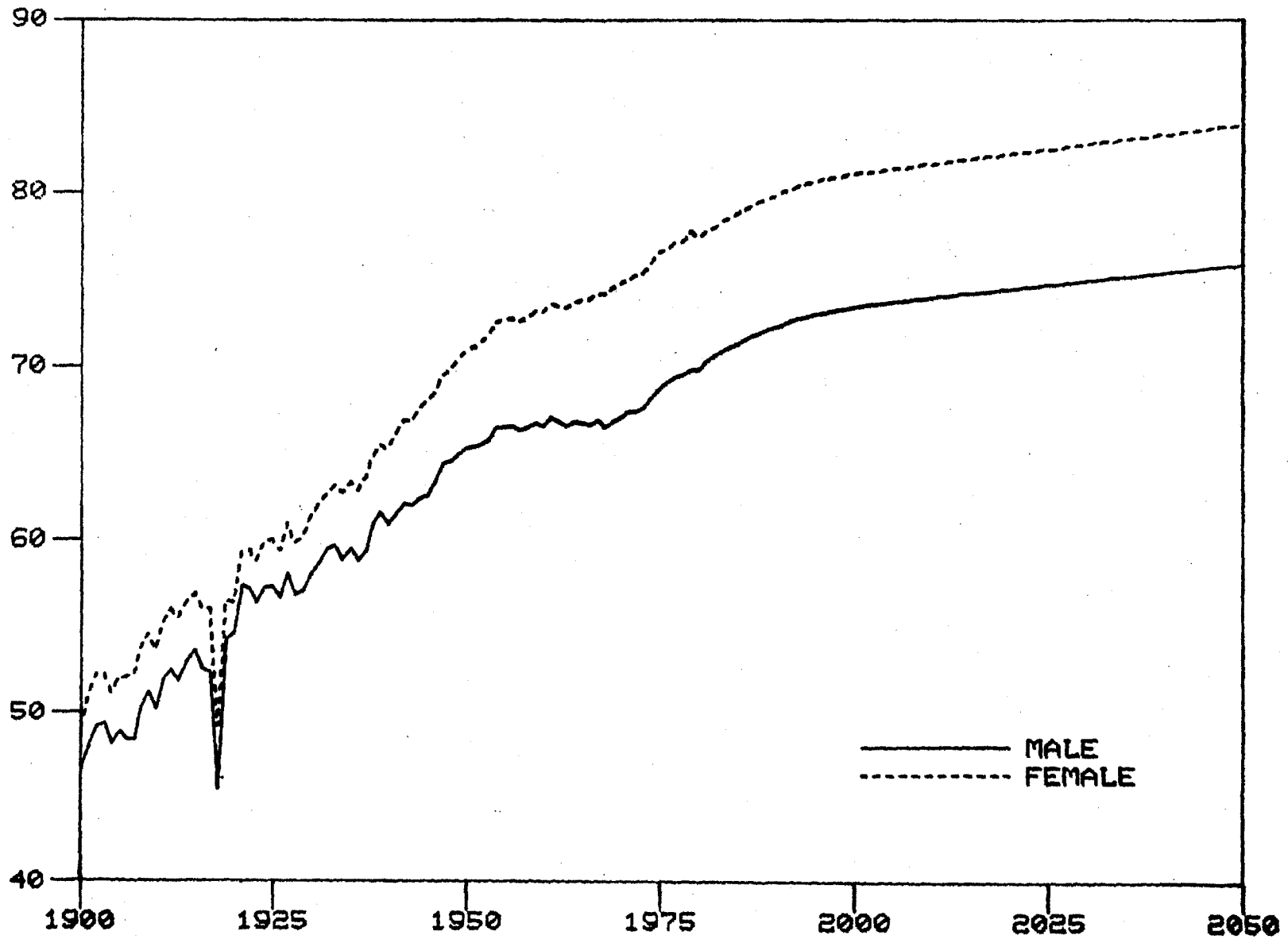


Chart 1b
Life Expectancy at Age 65, by Sex and Calendar Year

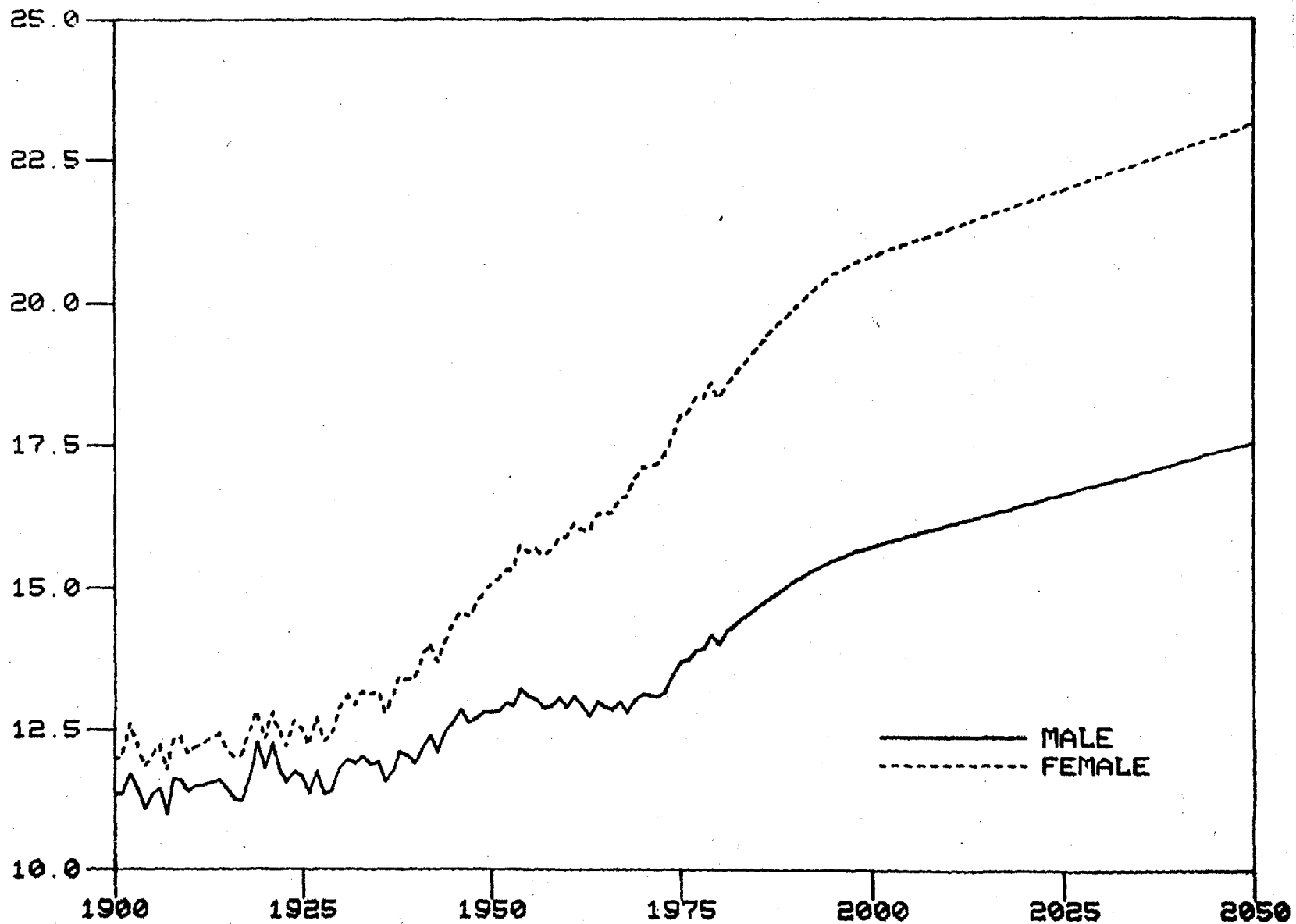


Chart 2a.
Life Endurancy at Survival Rate 1/2, by Sex and Calendar Year.

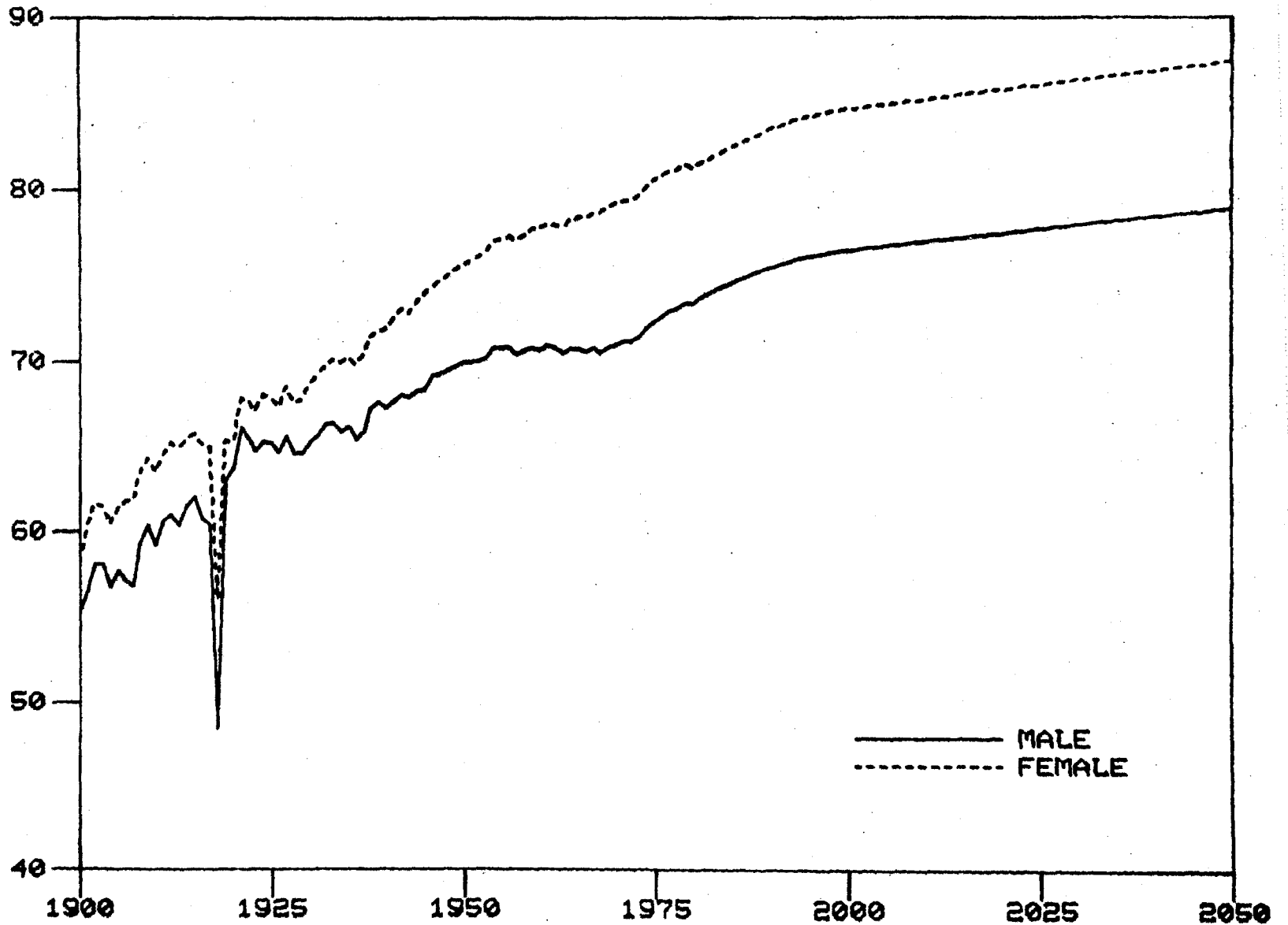


Chart 2b.
Life Endurancy at Survival Rate 1/100000, by Sex and Calendar Year

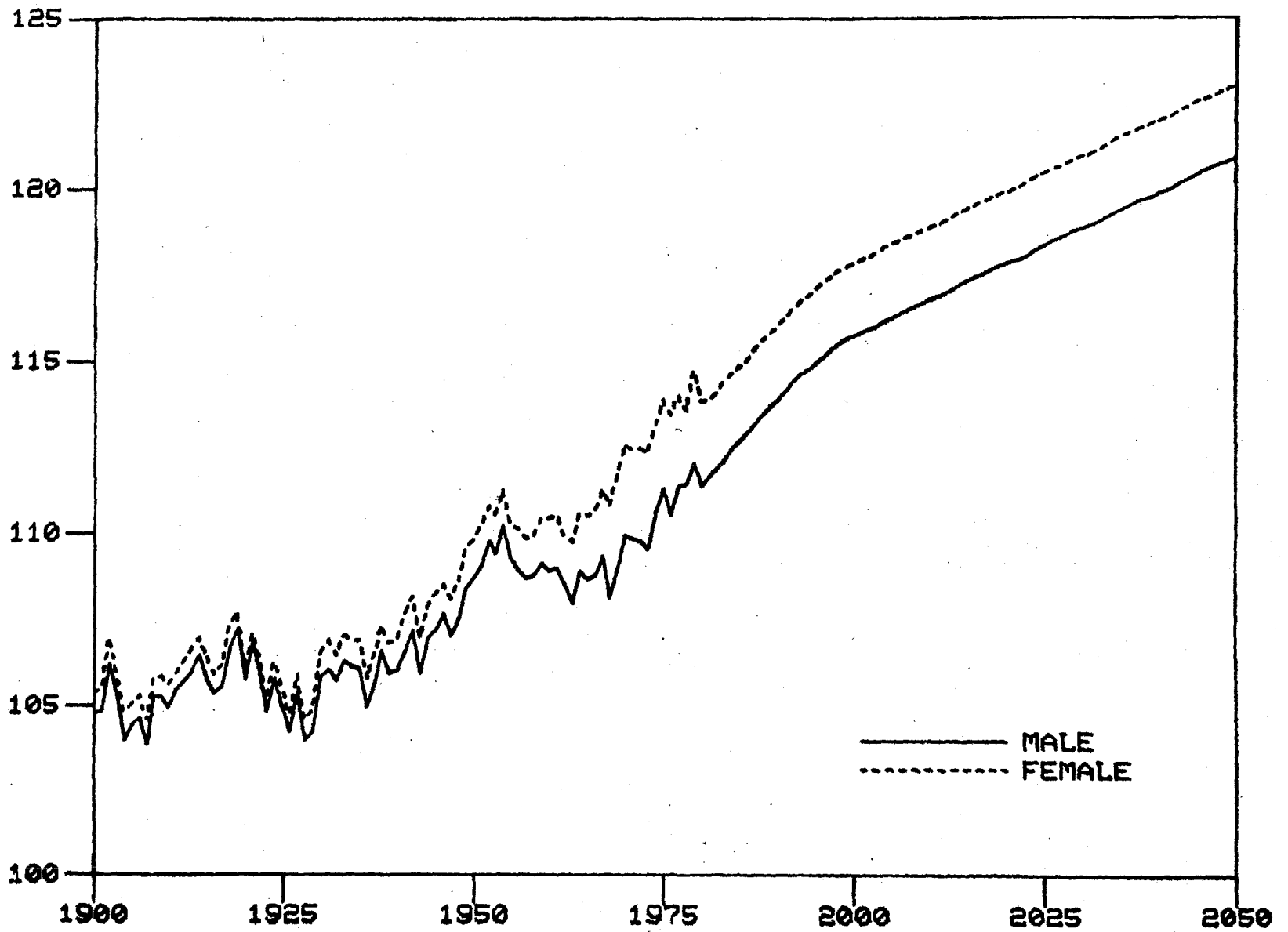
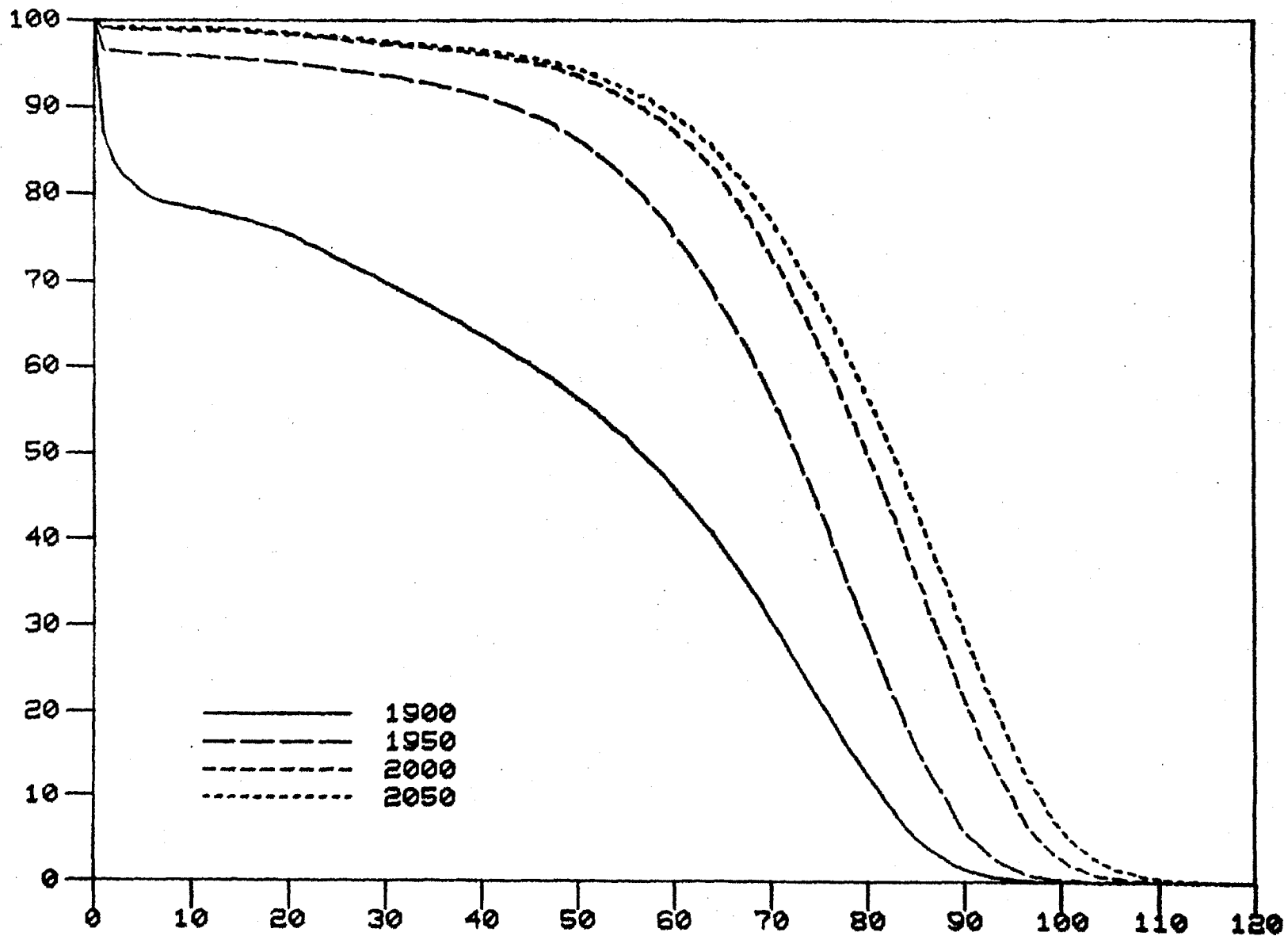


Chart 3.
Survivorship Group in Selected Calendar Years, by Age



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