Original

LIFE TABLES FOR THE UNITED STATES: 1900-2050

ACTUARIAL STUDY NO. 89
By Joseph F. Faber
Alice H. Wade, A.S.A.

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Social Security Administration
Office of the Actuary

December 1983
SSA Pub. No. 11-11536

FOREWORD

Actuarial Study No. 87 "Life Tables for the United States: 1900-2050" is nearly out of print. Rather than simply reprint Study No. 87, we have decided to rework it somewhat by introducing some refinements in the exposure formulas used for ages 0-4, replacing provisional data for 1979-80 with final data, replacing the projection for 1982 with provisional data, and incorporating a newly-developed projection for 1983-2050. We hope that this new Study No. 89 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.

Francisco R. Bayo
Deputy Chief Actuary

Table of Contents

A. Basic Concepts

An ideal representation of human mortality would enable one to estimate fairly accurately the number of deaths 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 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 1900-1982 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 effect of errors in Vital Statistics and net immigration 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 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 1968-1981 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 1982 rapid improvement in mortality resumed, averaging 1.8 percent for males and 2.1 percent for females, annually.

Past improvement in mortality has varied greatly by cause of death. For the period 1968-80, 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 (Ninth Revision of the International List of Diseases and Causes of Death code numbers 390-398, 402, 404-429)
II. Malignant Neoplasms (140-208)
III. Vascular Diseases (400, 401, 403, 430-459, 582-583, 587)
IV. Accidents, Suicide, and Homicide (E800-E989)
V. Diseases of the Respiratory System (460-519)
VI. Congenital Malformations and Diseases of Early Infancy (740-779)
VII. Diseases of the Digestive System (520-570, 572-579)
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 improvements were in the category of Congenital Malformations and Diseases of Early Infancy and the category of Vascular Disease, averaging 4 1/2 to 5 percent per year. Averaging 2 1/4 to 4 percent improvement per year were Heart 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 averaged about 1 1/4 percent improvement per year, while the residual group of Other Causes averaged about 1/4 percent improvement per year. Cancer was the only of the above group of causes for which mortality deteriorated during this period, increasing at about 1/2 percent per year.

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, the development of new forms 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 2008 and later, which are as follows:

	I	II	III	IV	V	VI	VII	VIII	IX	X
Male	0.70	0.20	1.00	0.20	0.10	1.00	0.60	0.40	0.20	0.20
Female	0.70	0.30	1.00	0.20	0.20	1.00	0.60	0.50	0.20	0.20

Prior to 2008, mortality improvement was assumed to change gradually from the average annual improvements by age group, sex, and cause of death observed during 1968-80 to the annual improvements by sex and cause of death postulated for 2008 and later.

Table 2 compares average annual percentage improvements assumed during selected future periods to average annual improvements observed during selected past periods. Future improvements for those under 65 are projected to be relatively small compared with past improvements because very little additional improvement in infectious diseases (such as poliomyelitis and influenza) is possible and because a small 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 advances 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 many of the same environmental hazards and social pressures 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 1982-2058. This is about half the average rate of improvement observed during 1900-1982 (with 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.

$\ell(x)$ = 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

$\overset{0}{e}(x)$ = 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 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 1940-1980, 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 1940-80. After 1980, 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 1980 to the origin.

For the period 1940-1980, 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 1940-80. After 1980, 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 1980 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 1980 also give reasonable results because the probabilities are so low that some function deviating not too much from a line must connect the 1980 data point and the origin. Following are coefficients expressing probabilities of death as functions of population central death rates (y = mx+b).

			1900-1939		1981 and later	
	y	x	m	b	m	b
Male	q(0:1)	M(0:1)	.788283	.004154	.984015	.000000
	q(1:1)	M(1:4)	1.869723	-.000369	1.474710	.000000
	q(2:1)	M(1:4)	.946898	.000047	.995976	.000000
	q(3:1)	M(1:4)	.649213	.000140	.828139	.000000
	q(4:1)	M(1:4)	.516936	.000137	.644733	.000000
Female	q(0:1)	M(0:1)	.799091	.003193	.989728	.000000
	q(1:1)	M(1:4)	1.902337	-.000252	1.574613	.000000
	q(2:1)	M(1:4)	.927032	.000045	1.026362	.000000
	q(3:1)	M(1:4)	.670444	.000070	.767284	.000000
	q(4:1)	M(1:4)	.533832	.000077	.574473	.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 1940-1980 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 1980, 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 1/2 may be assumed.

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

$$\ell(0) = 100000$$
$$\ell(x) = \ell(x-1) \cdot (1 - q(x-1:1)) \quad x = 1,2,3,4$$

$$d(x) = \ell(x) \cdot q(x:1) \quad x = 0,1,2,3,4$$

$$L(0) = \ell(0) - f(0:1) \cdot d(0)$$
$$L(x) = \ell(x) - \tfrac{1}{2} \cdot d(x) \quad x = 1,2,3,4$$

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,

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

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

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

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,

$$m(x:5) = \frac{d(x) + d(x+1) + \ldots + d(x+4)}{L(x) + L(x+1) + \ldots + L(x+4)}$$

$$= \frac{\frac{d(x)}{L(x)} \cdot L(x) + \frac{d(x+1)}{L(x+1)} \cdot L(x+1) + \ldots + \frac{d(x+4)}{L(x+4)} \cdot L(x+4)}{L(x) + L(x+1) + \ldots + L(x+4)}$$

$$= \frac{m(x:1) \cdot L(x) + m(x+1:1) \cdot L(x+1) \ldots + m(x+4:1) \cdot L(x+4)}{L(x) + L(x+1) + \ldots + L(x+4)}$$

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

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

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

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,

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

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

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

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

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

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:

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

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

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 four 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:

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

$$q(x:1) = 1.04 \cdot q(x-1:1) \qquad x = 100,101,\ldots$$

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 95-149 by the same relations used for ages 1-4. The life tables were truncated beyond age 149. Values for the life table function T were calculated by

$$T(x) = L(x) + L(x+1) + \ldots + L(148) \qquad x = 0,1,\ldots,148$$

and values for $\overset{0}{e}$ were calculated by

$$\overset{0}{e}(x) = \frac{T(x)}{\ell(x)} \qquad x = 0,1,\ldots,148$$

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 and 91 percent between 1900 and 1980 for males and females respectively. 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 31 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 16 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 23.54 years from 46.40 years in 1900 to 69.94 years in 1980. During the same period, life expectancy at age 0 for females increased 28.57 years from 48.95 years to 77.52 years. Thus the sex gap in life expectancy at birth has increased from 2.55 years in 1900 to 7.58 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 14.04 years in 1980, while life expectancy at age 65 for females increased from 12.01 years to 18.36 years. Thus the sex gap in life expectancy at age 65 has increased from .66 years to 4.32 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 endurancies at selected survival rates, by sex and calendar year. Life endurancy at survival rate 1/2 for males increased 18.32 years from 55.15 years in 1900 to 73.47 years in 1980. For females the increase was 23.12 years from 58.17 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 111.40 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 endurancies 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 endurancies 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 1968-80, 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	4.94	-6.51	2.22	-.11	6.24	14.11	5.56	4.60	9.96	.93	-2.20
	1-4	2.77	-2.78	4.72	5.83	1.59	9.95	1.26	2.61	8.87	4.94	2.16
	5-9	3.36	1.38	3.71	5.98	2.57	8.11	4.69	6.42	9.15	9.59	3.52
	10-14	2.53	.56	2.44	7.95	2.08	6.52	2.66	5.20	7.70	3.33	2.66
	15-19	1.22	.68	3.18	8.13	.55	8.21	3.36	8.64	7.76	7.59	3.15
	20-24	1.17	1.01	2.85	6.74	.58	7.50	2.81	7.41	6.47	2.23	2.84
	25-29	.74	2.13	2.34	6.63	.04	5.91	3.40	6.00	4.96	-.12	.14
	30-34	1.92	3.59	2.49	7.15	.90	6.25	3.07	4.60	4.78	1.77	1.51
	35-39	2.66	3.93	2.19	6.91	1.32	6.88	2.73	4.35	4.18	1.96	2.43
	40-44	2.76	3.53	1.29	6.03	1.67	6.15	3.41	4.18	3.41	2.09	2.42
	45-49	2.50	3.19	.07	5.84	2.06	5.37	4.15	3.81	3.42	1.58	2.12
	50-54	2.18	2.87	-.54	5.47	2.36	4.63	4.40	3.32	3.13	1.37	1.71
	55-59	2.51	3.02	.00	5.81	3.30	4.18	3.91	4.16	2.85	1.83	2.15
	60-64	2.14	2.73	-.47	5.40	3.22	3.06	1.09	3.78	2.96	1.13	1.64
	65-69	1.60	2.19	-1.02	4.94	2.73	1.44	.54	3.56	2.80	-.07	.63
	70-74	1.48	2.05	-1.27	4.60	2.61	.80	-.35	3.12	2.82	-.73	-.07
	75-79	1.40	1.89	-1.32	4.26	2.23	.03	1.09	2.97	2.80	-.19	-.80
	80-84	1.47	1.91	-1.48	4.35	2.88	-.97	.05	2.29	2.74	.34	-1.33
	85-89	1.48	1.73	-1.77	4.32	3.09	-1.11	5.24	1.25	2.43	.70	-1.19
	90-94	1.48	1.47	-2.01	4.22	3.21	-.32	-2.53	.57	.39	2.19	-1.21
	Total	1.86	2.22	-.79	4.67	1.72	1.60	5.25	3.10	2.84	1.11	.34
Female	0	4.56	-5.25	4.60	-.38	6.32	14.02	4.90	4.72	9.00	1.61	-1.95
	1-4	3.32	-3.23	5.31	4.90	1.85	9.92	2.11	2.01	6.38	13.37	3.60
	5-9	3.36	.96	4.43	6.46	2.43	7.66	4.44	5.44	6.04	15.17	2.55
	10-14	2.67	.63	3.34	7.99	1.19	7.27	1.63	7.52	9.12	16.30	2.97
	15-19	1.56	2.08	2.59	7.64	-.17	6.50	4.07	7.11	8.10	11.04	4.43
	20-24	1.75	1.77	2.91	7.75	-.32	7.41	3.84	8.14	7.20	5.19	3.72
	25-29	2.49	3.30	2.04	7.77	.36	7.69	3.82	7.21	5.47	3.21	3.60
	30-34	3.66	5.02	2.16	8.93	1.59	8.39	3.24	5.95	5.42	4.85	4.30
	35-39	3.91	4.89	2.36	7.73	2.35	7.01	1.84	5.55	3.97	4.75	4.66
	40-44	3.20	3.67	1.70	6.52	2.17	6.36	3.48	4.38	3.82	3.87	3.58
	45-49	2.66	3.14	1.12	5.75	2.34	5.16	3.74	3.99	3.73	3.20	2.87
	50-54	2.06	2.94	.20	5.45	2.67	3.66	3.56	3.12	3.91	2.04	2.07
	55-59	2.00	3.12	-.09	5.38	2.94	1.90	3.30	3.63	4.26	1.51	1.78
	60-64	1.52	2.73	-.98	5.13	3.06	-.28	2.68	2.88	4.13	.12	.62
	65-69	1.45	2.52	-1.38	4.92	2.85	-1.17	1.40	2.58	4.06	-1.64	-.30
	70-74	2.06	2.86	-.84	5.10	3.24	-.67	-.03	2.43	4.39	-1.40	-1.00
	75-79	2.42	2.78	-.20	4.93	3.92	.29	-.26	2.36	4.50	-.65	-1.55
	80-84	2.45	2.58	-.34	4.66	4.87	1.02	1.24	1.74	3.62	.51	-2.06
	85-89	2.29	2.23	-.27	4.33	5.50	1.34	.23	.62	2.13	.82	-2.51
	90-94	1.86	1.56	-.73	3.83	5.84	1.38	-3.64	-.25	-.08	1.32	-2.59
	Total	2.27	2.55	-.22	4.79	2.39	2.19	4.66	2.47	3.88	1.59	.15

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	1900-1936	1936-1954	1954-1968	1968-1982	1900-1982	1982-2008	Absolute 1982-2058	Relative to 1968-1982 1982-2008	Relative to 1968-1982 1982-2058	Relative to 1900-1982 1982-2008	Relative to 1900-1982 1982-2058
Male	0	2.71	4.27	1.72	4.84	3.25	1.66	.94	.34	.19	.51	.29
	1-4	3.91	6.99	1.72	2.93	4.06	1.23	.64	.42	.22	.30	.16
	5-9	2.58	5.37	1.28	3.24	3.09	1.82	.79	.56	.24	.59	.25
	10-14	1.77	4.74	1.22	2.53	2.46	1.43	.65	.56	.26	.58	.26
	15-19	1.62	3.16	-.56	1.54	1.58	.63	.36	.41	.23	.40	.23
	20-24	1.97	3.12	-.15	1.42	1.77	.65	.37	.46	.26	.37	.21
	25-29	1.87	4.21	-.62	.59	1.75	.29	.24	.49	.41	.16	.14
	30-34	2.03	4.38	-.53	1.75	2.07	1.02	.51	.58	.29	.49	.24
	35-39	1.56	3.89	-.65	2.56	1.88	1.42	.67	.55	.26	.76	.36
	40-44	1.31	2.75	-.11	2.72	1.63	1.54	.75	.57	.27	.95	.46
	45-49	.86	2.04	.00	2.52	1.26	1.33	.69	.53	.27	1.06	.55
	50-54	.40	1.35	.08	2.15	.86	1.12	.62	.52	.29	1.31	.73
	55-59	.55	.94	.02	2.42	.86	1.29	.69	.53	.29	1.49	.80
	60-64	.32	.72	-.36	2.23	.62	1.10	.63	.49	.28	1.76	1.01
	65-69	.28	.84	-.19	1.57	.55	.83	.54	.53	.34	1.51	.98
	70-74	.26	.92	-.27	1.47	.52	.76	.52	.52	.36	1.46	1.00
	75-79	.05	1.46	-.25	1.30	.52	.72	.52	.56	.40	1.39	.99
	80-84	.24	1.26	.17	1.42	.66	.72	.52	.51	.37	1.10	.80
	85-89	.22	1.21	-.89	1.41	.45	.74	.54	.52	.39	1.62	1.19
	90-94	.22	1.21	-.89	1.42	.46	.77	.57	.54	.41	1.69	1.26
	Total	.89	1.66	-.15	1.82	1.04	.91	.57	.50	.31	.87	.55
Female	0	2.83	4.38	1.74	4.64	3.30	1.69	.97	.36	.21	.51	.29
	1-4	4.07	7.20	2.02	3.49	4.33	1.47	.74	.42	.21	.34	.17
	5-9	3.04	5.92	1.28	3.57	3.47	1.77	.79	.50	.22	.51	.23
	10-14	2.51	6.07	1.26	3.01	3.18	1.33	.64	.44	.21	.42	.20
	15-19	1.90	6.39	.12	1.59	2.55	.49	.32	.31	.20	.19	.13
	20-24	1.90	7.13	.46	1.85	2.82	.52	.33	.28	.18	.18	.12
	25-29	1.83	6.87	.61	2.21	2.82	1.05	.53	.47	.24	.37	.19
	30-34	2.03	5.92	.34	3.38	2.85	1.73	.78	.51	.23	.61	.27
	35-39	1.54	5.00	.09	3.84	2.46	1.98	.89	.52	.23	.81	.36
	40-44	1.38	3.78	.38	3.23	2.06	1.73	.82	.54	.25	.84	.40
	45-49	.97	3.20	.21	2.61	1.62	1.49	.75	.57	.29	.92	.47
	50-54	.74	2.74	.61	1.98	1.37	1.06	.61	.53	.31	.77	.44
	55-59	.82	2.63	.93	1.78	1.40	.97	.59	.55	.33	.69	.42
	60-64	.59	2.43	.72	1.40	1.16	.67	.49	.48	.35	.58	.42
	65-69	.54	2.40	1.15	1.25	1.18	.60	.48	.48	.38	.51	.41
	70-74	.46	2.01	1.21	1.88	1.17	.91	.61	.49	.32	.78	.52
	75-79	.19	2.18	1.08	2.23	1.13	1.21	.73	.54	.33	1.07	.65
	80-84	.31	1.78	.91	2.37	1.09	1.28	.78	.54	.33	1.18	.72
	85-89	.23	1.21	.13	2.14	.76	1.25	.79	.58	.37	1.65	1.04
	90-94	.23	1.21	.13	1.74	.69	1.07	.75	.62	.43	1.56	1.08
	Total	1.03	2.62	.82	2.13	1.53	1.08	.67	.50	.31	.70	.44

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

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}_x$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}_x$
0	.14596	100000	14596	90026	4640228	46.40	0	.11970	100000	11970	92046	4895357	48.95
1	.03820	85404	3263	83772	4550202	53.28	1	.03622	88030	3189	86435	4803311	54.56
2	.01958	82141	1608	81337	4466430	54.38	2	.01782	84841	1512	84085	4716875	55.60
3	.01353	80533	1090	79988	4385093	54.45	3	.01293	83329	1077	82791	4632790	55.60
4	.01080	79443	858	79014	4305106	54.19	4	.01031	82252	848	81828	4549999	55.32
5	.00794	78585	624	78273	4226092	53.78	5	.00761	81404	620	81094	4468171	54.89
6	.00570	77961	444	77738	4147819	53.20	6	.00550	80784	444	80562	4387077	54.31
7	.00407	77516	316	77359	4070081	52.51	7	.00399	80340	320	80180	4306515	53.60
8	.00304	77201	235	77083	3992722	51.72	8	.00306	80020	245	79897	4226335	52.82
9	.00255	76966	197	76867	3915639	50.88	9	.00265	79775	211	79670	4146438	51.98
10	.00248	76769	191	76674	3838772	50.00	10	.00264	79564	210	79459	4066768	51.11
11	.00267	76579	204	76476	3762098	49.13	11	.00287	79354	228	79240	3987310	50.25
12	.00293	76374	224	76262	3685622	48.26	12	.00314	79126	248	79002	3908070	49.39
13	.00315	76150	240	76030	3609359	47.40	13	.00332	78878	262	78747	3829067	48.54
14	.00336	75910	255	75783	3533329	46.55	14	.00346	78616	272	78480	3750320	47.70
15	.00367	75655	278	75516	3457547	45.70	15	.00370	78344	290	78199	3671841	46.87
16	.00415	75377	313	75221	3382031	44.87	16	.00411	78054	320	77893	3593642	46.04
17	.00468	75065	351	74889	3306810	44.05	17	.00457	77733	355	77556	3515749	45.23
18	.00523	74713	391	74518	3231921	43.26	18	.00506	77378	392	77182	3438193	44.43
19	.00580	74322	431	74107	3157403	42.48	19	.00558	76986	430	76771	3361011	43.66
20	.00642	73892	474	73654	3083296	41.73	20	.00615	76557	471	76321	3284239	42.90
21	.00702	73417	516	73159	3009642	40.99	21	.00670	76086	510	75831	3207918	42.16
22	.00744	72901	543	72630	2936482	40.28	22	.00712	75576	538	75307	3132087	41.44
23	.00762	72359	551	72083	2863852	39.58	23	.00737	75038	553	74761	3056780	40.74
24	.00761	71808	546	71535	2791769	38.88	24	.00748	74485	557	74206	2982019	40.04
25	.00753	71261	536	70993	2720234	38.17	25	.00754	73928	557	73649	2907813	39.33
26	.00750	70725	530	70460	2649241	37.46	26	.00763	73370	560	73090	2834164	38.63
27	.00756	70195	530	69930	2578781	36.74	27	.00774	72811	563	72529	2761074	37.92
28	.00775	69665	540	69395	2508851	36.01	28	.00790	72247	570	71962	2688545	37.21
29	.00806	69125	557	68846	2439457	35.29	29	.00809	71677	580	71387	2616583	36.51
30	.00838	68568	575	68280	2370611	34.57	30	.00829	71097	589	70802	2545197	35.80
31	.00867	67993	589	67698	2302330	33.86	31	.00846	70508	596	70210	2474394	35.09
32	.00894	67403	603	67102	2234632	33.15	32	.00861	69911	602	69610	2404185	34.39
33	.00917	66801	613	66495	2167530	32.45	33	.00875	69309	606	69006	2334574	33.68
34	.00938	66188	621	65878	2101036	31.74	34	.00886	68703	609	68399	2265568	32.98
35	.00960	65567	630	65253	2035158	31.04	35	.00899	68094	612	67788	2197170	32.27
36	.00984	64938	639	64618	1969906	30.34	36	.00913	67482	616	67174	2129382	31.55
37	.01008	64298	648	63974	1905287	29.63	37	.00928	66865	620	66555	2062208	30.84
38	.01029	63651	655	63323	1841313	28.93	38	.00943	66245	624	65933	1995653	30.13
39	.01051	62995	662	62664	1777990	28.22	39	.00958	65621	629	65306	1929720	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)	$\mathring{e}_x$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}_x$
40	.01074	62333	670	61998	1715326	27.52	40	.00977	64992	635	64674	1864414	28.69
41	.01102	61664	679	61324	1653327	26.81	41	.00999	64357	643	64035	1799740	27.96
42	.01134	60984	691	60639	1592003	26.11	42	.01025	63714	653	63388	1735704	27.24
43	.01172	60293	707	59940	1531365	25.40	43	.01054	63061	665	62729	1672317	26.52
44	.01217	59586	725	59224	1471425	24.69	44	.01089	62396	680	62056	1609588	25.80
45	.01268	58861	746	58488	1412202	23.99	45	.01128	61717	696	61368	1547532	25.07
46	.01323	58115	769	57730	1353714	23.29	46	.01173	61020	716	60662	1486163	24.36
47	.01383	57346	793	56949	1295983	22.60	47	.01227	60304	740	59935	1425501	23.64
48	.01446	56553	818	56144	1239034	21.91	48	.01290	59565	769	59180	1365567	22.93
49	.01515	55735	844	55313	1182891	21.22	49	.01363	58796	802	58395	1306386	22.22
50	.01589	54890	872	54454	1127578	20.54	50	.01445	57994	838	57576	1247991	21.52
51	.01673	54018	904	53566	1073124	19.87	51	.01532	57157	876	56719	1190415	20.83
52	.01771	53114	941	52644	1019558	19.20	52	.01624	56281	914	55824	1133697	20.14
53	.01884	52174	983	51682	966914	18.53	53	.01719	55367	952	54891	1077873	19.47
54	.02011	51191	1030	50676	915231	17.88	54	.01819	54415	990	53920	1022982	18.80
55	.02154	50161	1081	49621	864556	17.24	55	.01930	53425	1031	52909	969063	18.14
56	.02307	49080	1132	48514	814935	16.60	56	.02052	52394	1075	51856	916153	17.49
57	.02459	47948	1179	47359	766421	15.98	57	.02181	51319	1119	50759	864297	16.84
58	.02609	46769	1220	46159	719062	15.37	58	.02317	50200	1163	49618	813538	16.21
59	.02762	45549	1258	44920	672903	14.77	59	.02462	49037	1207	48433	763919	15.58
60	.02930	44291	1298	43642	627983	14.18	60	.02627	47829	1256	47201	715486	14.96
61	.03123	42993	1343	42322	584341	13.59	61	.02810	46573	1309	45919	668285	14.35
62	.03339	41651	1391	40955	542019	13.01	62	.03006	45264	1361	44584	622366	13.75
63	.03584	40260	1443	39538	501064	12.45	63	.03216	43904	1412	43198	577782	13.16
64	.03858	38817	1497	38068	461525	11.89	64	.03443	42492	1463	41760	534585	12.58
65	.04159	37319	1552	36543	423457	11.35	65	.03691	41029	1514	40272	492824	12.01
66	.04488	35767	1605	34965	386914	10.82	66	.03971	39514	1569	38730	452553	11.45
67	.04852	34162	1657	33333	351949	10.30	67	.04301	37945	1632	37129	413823	10.91
68	.05253	32505	1707	31651	318616	9.80	68	.04689	36313	1703	35462	376694	10.37
69	.05691	30797	1753	29921	286965	9.32	69	.05129	34610	1775	33723	341232	9.86
70	.06182	29045	1796	28147	257044	8.85	70	.05627	32835	1848	31911	307510	9.37
71	.06713	27249	1829	26334	228897	8.40	71	.06156	30988	1907	30034	275598	8.89
72	.07254	25420	1844	24498	202563	7.97	72	.06671	29080	1940	28110	245564	8.44
73	.07793	23576	1837	22657	178065	7.55	73	.07157	27140	1942	26169	217454	8.01
74	.08354	21739	1816	20831	155408	7.15	74	.07643	25198	1926	24235	191285	7.59
75	.08945	19923	1782	19032	134577	6.75	75	.08142	23272	1895	22325	167051	7.18
76	.09618	18141	1745	17268	115545	6.37	76	.08727	21377	1866	20444	144726	6.77
77	.10426	16396	1709	15541	98277	5.99	77	.09476	19512	1849	18587	124282	6.37
78	.11400	14686	1674	13849	82736	5.63	78	.10428	17663	1842	16742	105694	5.98
79	.12503	13012	1627	12199	68887	5.29	79	.11532	15821	1824	14909	88953	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)	$\mathring{e}$(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)
80	.13692	11385	1559	10606	56688	4.98	80	.12763	13996	1786	13103	74044	5.29
81	.14905	9826	1465	9094	46082	4.69	81	.14001	12210	1709	11355	60941	4.99
82	.16117	8362	1348	7688	36988	4.42	82	.15129	10501	1589	9706	49586	4.72
83	.17303	7014	1214	6407	29300	4.18	83	.16086	8912	1434	8195	39879	4.47
84	.18485	5800	1072	5264	22893	3.95	84	.16962	7478	1268	6844	31684	4.24
85	.19707	4728	932	4262	17629	3.73	85	.17889	6210	1111	5654	24840	4.00
86	.20998	3796	797	3398	13366	3.52	86	.18978	5099	968	4615	19186	3.76
87	.22376	2999	671	2664	9969	3.32	87	.20294	4131	838	3712	14570	3.53
88	.23841	2328	555	2051	7305	3.14	88	.21850	3293	719	2933	10858	3.30
89	.25378	1773	450	1548	5254	2.96	89	.23615	2573	608	2270	7925	3.08
90	.26970	1323	357	1145	3706	2.80	90	.25546	1966	502	1715	5656	2.88
91	.28598	966	276	828	2561	2.65	91	.27592	1464	404	1262	3941	2.69
92	.30241	690	209	586	1733	2.51	92	.29704	1060	315	902	2680	2.53
93	.31883	481	153	405	1148	2.38	93	.31840	745	237	626	1777	2.39
94	.33510	328	110	273	743	2.27	94	.33510	508	170	423	1151	2.27
95	.35145	218	77	180	470	2.16	95	.35145	338	119	278	728	2.16
96	.36783	141	52	115	291	2.06	96	.36783	219	81	179	450	2.06
97	.38416	89	34	72	175	1.96	97	.38416	138	53	112	271	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	40	91	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

x	q(x)	l(x)	d(x)	L(x)	T(x)	$\overset{o}{e}$(x)
0	.12006	100000	12006	91343	5007641	50.08
1	.02733	87994	2405	86791	4916299	55.87
2	.01407	85589	1205	84986	4829508	56.43
3	.00976	84384	823	83972	4744522	56.23
4	.00779	83560	651	83235	4660550	55.77
5	.00581	82909	482	82668	4577315	55.21
6	.00426	82427	351	82252	4494647	54.53
7	.00314	82076	258	81947	4412395	53.76
8	.00245	81818	200	81718	4330448	52.93
9	.00213	81618	174	81531	4248729	52.06
10	.00210	81444	171	81359	4167198	51.17
11	.00226	81273	184	81181	4085840	50.27
12	.00247	81089	201	80989	4004659	49.39
13	.00265	80888	215	80781	3923670	48.51
14	.00282	80674	227	80560	3842889	47.63
15	.00306	80447	246	80323	3762329	46.77
16	.00342	80200	274	80063	3682005	45.91
17	.00383	79926	306	79773	3601942	45.07
18	.00427	79620	340	79450	3522169	44.24
19	.00473	79280	375	79093	3442719	43.42
20	.00524	78905	414	78698	3363626	42.63
21	.00574	78491	450	78266	3284928	41.85
22	.00609	78041	475	77804	3206662	41.09
23	.00624	77566	484	77325	3128858	40.34
24	.00624	77083	481	76842	3051533	39.59
25	.00620	76601	475	76364	2974691	38.83
26	.00621	76126	472	75890	2898327	38.07
27	.00629	75654	476	75416	2822438	37.31
28	.00650	75178	489	74934	2747022	36.54
29	.00680	74689	508	74435	2672088	35.78
30	.00713	74181	529	73917	2597653	35.02
31	.00744	73652	548	73378	2523736	34.27
32	.00773	73104	565	72822	2450358	33.52
33	.00798	72539	579	72250	2377537	32.78
34	.00820	71960	590	71665	2305287	32.04
35	.00844	71370	602	71069	2233622	31.30
36	.00871	70768	616	70460	2162553	30.56
37	.00901	70152	632	69835	2092094	29.82
38	.00938	69519	652	69193	2022258	29.09
39	.00979	68867	674	68530	1953065	28.36

Female

x	q(x)	l(x)	d(x)	L(x)	T(x)	$\overset{o}{e}$(x)
0	.09827	100000	9827	93082	5357895	53.58
1	.02558	90173	2306	89020	5264813	58.39
2	.01263	87867	1110	87312	5175793	58.90
3	.00917	86757	796	86359	5088481	58.65
4	.00733	85961	630	85646	5002122	58.19
5	.00544	85332	464	85099	4916476	57.62
6	.00397	84867	337	84699	4831376	56.93
7	.00292	84531	247	84407	4746677	56.15
8	.00228	84284	193	84187	4662270	55.32
9	.00201	84091	169	84007	4578083	54.44
10	.00203	83922	170	83837	4494076	53.55
11	.00220	83752	185	83659	4410239	52.66
12	.00241	83567	201	83467	4326580	51.77
13	.00255	83366	213	83259	4243114	50.90
14	.00266	83153	221	83042	4159854	50.03
15	.00284	82932	236	82814	4076812	49.16
16	.00314	82696	259	82566	3993998	48.30
17	.00346	82437	285	82294	3911431	47.45
18	.00381	82151	313	81995	3829137	46.61
19	.00417	81838	342	81667	3747142	45.79
20	.00457	81497	372	81311	3665475	44.98
21	.00495	81124	402	80924	3584165	44.18
22	.00525	80723	424	80511	3503241	43.40
23	.00543	80299	436	80081	3422730	42.62
24	.00552	79862	441	79642	3342650	41.86
25	.00558	79421	443	79200	3263008	41.08
26	.00566	78978	447	78754	3183808	40.31
27	.00577	78531	453	78304	3105054	39.54
28	.00593	78078	463	77846	3026749	38.77
29	.00613	77614	476	77376	2948903	37.99
30	.00635	77138	490	76893	2871527	37.23
31	.00655	76648	502	76397	2794634	36.46
32	.00671	76147	511	75891	2718236	35.70
33	.00683	75635	517	75377	2642345	34.94
34	.00692	75119	520	74859	2566968	34.17
35	.00700	74599	522	74338	2492109	33.41
36	.00711	74077	527	73814	2417771	32.64
37	.00728	73550	535	73283	2343957	31.87
38	.00752	73015	549	72741	2270674	31.10
39	.00781	72466	566	72183	2197934	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)	$\mathring{e}$(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)
40	.01023	68193	697	67844	1884535	27.64	40	.00816	71900	586	71607	2125750	29.57
41	.01068	67495	721	67135	1816691	26.92	41	.00850	71314	606	71011	2054143	28.80
42	.01115	66775	744	66403	1749556	26.20	42	.00883	70707	624	70395	1983133	28.05
43	.01163	66030	768	65646	1683154	25.49	43	.00911	70083	639	69764	1912738	27.29
44	.01213	65263	792	64867	1617507	24.78	44	.00938	69444	651	69119	1842974	26.54
45	.01270	64471	819	64061	1552641	24.08	45	.00968	68793	666	68460	1773855	25.79
46	.01331	63652	847	63228	1488579	23.39	46	.01005	68127	685	67785	1705395	25.03
47	.01386	62805	871	62369	1425351	22.69	47	.01049	67442	707	67089	1637610	24.28
48	.01433	61934	888	61490	1362981	22.01	48	.01102	66735	735	66367	1570522	23.53
49	.01478	61046	902	60595	1301491	21.32	49	.01164	65999	768	65615	1504154	22.79
50	.01524	60144	916	59686	1240895	20.63	50	.01233	65231	804	64829	1438539	22.05
51	.01584	59228	938	58759	1181209	19.94	51	.01310	64427	844	64005	1373710	21.32
52	.01671	58290	974	57803	1122450	19.26	52	.01396	63583	887	63139	1309705	20.60
53	.01791	57316	1026	56803	1064648	18.58	53	.01492	62696	936	62228	1246566	19.88
54	.01938	56289	1091	55744	1007845	17.90	54	.01599	61760	988	61266	1184338	19.18
55	.02103	55199	1161	54618	952101	17.25	55	.01720	60773	1045	60250	1123071	18.48
56	.02274	54038	1229	53423	897483	16.61	56	.01852	59727	1106	59174	1062822	17.79
57	.02446	52809	1292	52163	844060	15.98	57	.01987	58621	1165	58039	1003647	17.12
58	.02613	51517	1346	50844	791897	15.37	58	.02123	57457	1220	56847	945608	16.46
59	.02781	50171	1395	49473	741053	14.77	59	.02266	56237	1274	55600	888761	15.80
60	.02968	48775	1448	48051	691580	14.18	60	.02424	54963	1332	54297	833161	15.16
61	.03176	47328	1503	46576	643529	13.60	61	.02605	53631	1397	52932	778865	14.52
62	.03397	45824	1557	45046	596953	13.03	62	.02810	52233	1468	51499	725933	13.90
63	.03629	44268	1607	43464	551907	12.47	63	.03043	50765	1545	49993	674433	13.29
64	.03879	42661	1655	41834	508442	11.92	64	.03304	49221	1626	48407	624440	12.69
65	.04151	41006	1702	40155	466609	11.38	65	.03591	47594	1709	46740	576033	12.10
66	.04457	39304	1752	38428	426453	10.85	66	.03906	45885	1792	44989	529293	11.54
67	.04808	37552	1806	36650	388025	10.33	67	.04254	44093	1875	43155	484305	10.98
68	.05213	35747	1864	34815	351376	9.83	68	.04635	42217	1957	41239	441150	10.45
69	.05668	33883	1920	32923	316561	9.34	69	.05051	40260	2033	39244	399911	9.93
70	.06173	31963	1973	30976	283638	8.87	70	.05513	38227	2107	37173	360667	9.43
71	.06714	29990	2013	28983	252662	8.43	71	.06011	36120	2171	35034	323494	8.96
72	.07269	27976	2034	26959	223679	8.00	72	.06527	33948	2216	32840	288460	8.50
73	.07831	25942	2032	24927	196720	7.58	73	.07055	31732	2239	30613	255620	8.06
74	.08416	23911	2012	22905	171793	7.18	74	.07608	29494	2244	28372	225007	7.63
75	.09027	21898	1977	20910	148889	6.80	75	.08189	27250	2231	26134	196635	7.22
76	.09706	19922	1934	18955	127979	6.42	76	.08834	25018	2210	23913	170501	6.81
77	.10502	17988	1889	17044	109024	6.06	77	.09589	22808	2187	21715	146587	6.43
78	.11440	16099	1842	15178	91980	5.71	78	.10474	20621	2160	19541	124873	6.06
79	.12486	14257	1780	13367	76802	5.39	79	.11462	18461	2116	17403	105331	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)	o e(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	o e(x)
80	.13627	12477	1700	11627	63435	5.08	80	.12564	16345	2054	15319	87928	5.38
81	.14785	10777	1593	9980	51808	4.81	81	.13694	14292	1957	13313	72609	5.08
82	.15885	9183	1459	8454	41828	4.55	82	.14745	12335	1819	11425	59296	4.81
83	.16887	7725	1304	7072	33374	4.32	83	.15668	10516	1648	9692	47871	4.55
84	.17847	6420	1146	5847	26302	4.10	84	.16543	8868	1467	8135	38178	4.31
85	.18850	5274	994	4777	20454	3.88	85	.17487	7401	1294	6754	30044	4.06
86	.19967	4280	855	3853	15677	3.66	86	.18595	6107	1136	5539	23289	3.81
87	.21239	3426	728	3062	11824	3.45	87	.19926	4971	991	4476	17750	3.57
88	.22672	2698	612	2392	8762	3.25	88	.21494	3981	856	3553	13274	3.33
89	.24248	2086	506	1833	6370	3.05	89	.23274	3125	727	2762	9721	3.11
90	.25938	1580	410	1375	4537	2.87	90	.25232	2398	605	2095	6960	2.90
91	.27711	1170	324	1008	3161	2.70	91	.27325	1793	490	1548	4864	2.71
92	.29535	846	250	721	2153	2.54	92	.29512	1303	385	1111	3316	2.55
93	.31383	596	187	503	1432	2.40	93	.31383	918	288	774	2206	2.40
94	.33228	409	136	341	929	2.27	94	.33228	630	209	525	1431	2.27
95	.35057	273	96	225	588	2.15	95	.35057	421	148	347	906	2.15
96	.36854	177	65	145	363	2.05	96	.36854	273	101	223	559	2.05
97	.38606	112	43	90	218	1.95	97	.38606	173	67	139	336	1.95
98	.40295	69	28	55	128	1.86	98	.40295	106	43	85	197	1.86
99	.41907	41	17	32	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	33	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)	$\mathring{e}$(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)
0	.08594	100000	8594	93479	5450637	54.51	0	.06774	100000	6774	94964	5626766	56.27
1	.01888	91406	1726	90543	5357158	58.61	1	.01776	93226	1656	92399	5531802	59.34
2	.00979	89681	878	89241	5266614	58.73	2	.00882	91571	808	91167	5439403	59.40
3	.00682	88802	606	88499	5177373	58.30	3	.00642	90763	583	90472	5348236	58.93
4	.00546	88196	481	87956	5088873	57.70	4	.00513	90180	463	89949	5257765	58.30
5	.00438	87715	384	87523	5000918	57.01	5	.00404	89718	362	89537	5167816	57.60
6	.00354	87331	309	87176	4913395	56.26	6	.00318	89355	285	89213	5078279	56.83
7	.00292	87022	254	86895	4826218	55.46	7	.00256	89071	228	88957	4989066	56.01
8	.00249	86768	216	86660	4739323	54.62	8	.00214	88843	190	88748	4900109	55.15
9	.00225	86552	194	86454	4652664	53.76	9	.00191	88654	169	88569	4811361	54.27
10	.00216	86357	186	86264	4566209	52.88	10	.00184	88484	163	88403	4722792	53.37
11	.00220	86171	190	86076	4479945	51.99	11	.00191	88321	169	88237	4634389	52.47
12	.00236	85981	203	85879	4393869	51.10	12	.00208	88152	183	88061	4546152	51.57
13	.00262	85778	224	85666	4307990	50.22	13	.00232	87969	204	87867	4458092	50.68
14	.00294	85554	251	85428	4222324	49.35	14	.00262	87765	230	87651	4370225	49.79
15	.00334	85302	285	85160	4136896	48.50	15	.00298	87536	261	87406	4282574	48.92
16	.00378	85017	321	84857	4051736	47.66	16	.00340	87275	297	87127	4195169	48.07
17	.00418	84696	354	84519	3966880	46.84	17	.00386	86979	335	86811	4108042	47.23
18	.00451	84342	381	84152	3882360	46.03	18	.00434	86643	376	86455	4021231	46.41
19	.00478	83962	402	83761	3798208	45.24	19	.00483	86267	416	86059	3934776	45.61
20	.00507	83560	424	83348	3714448	44.45	20	.00535	85851	459	85621	3848717	44.83
21	.00537	83136	446	82913	3631100	43.68	21	.00585	85392	500	85142	3763095	44.07
22	.00558	82690	461	82459	3548187	42.91	22	.00623	84892	529	84628	3677953	43.32
23	.00567	82229	466	81996	3465727	42.15	23	.00643	84364	543	84092	3593325	42.59
24	.00569	81763	465	81530	3383731	41.38	24	.00651	83821	546	83548	3509233	41.87
25	.00566	81298	460	81068	3302201	40.62	25	.00653	83275	544	83003	3425685	41.14
26	.00566	80837	458	80609	3221134	39.85	26	.00658	82731	544	82459	3342682	40.40
27	.00575	80380	462	80149	3140525	39.07	27	.00667	82187	548	81913	3260223	39.67
28	.00596	79918	476	79680	3060376	38.29	28	.00684	81639	558	81360	3178311	38.93
29	.00626	79442	497	79193	2980696	37.52	29	.00707	81080	573	80794	3096951	38.20
30	.00659	78944	521	78684	2901504	36.75	30	.00730	80508	588	80214	3016157	37.46
31	.00689	78424	541	78153	2822820	35.99	31	.00749	79920	599	79620	2935944	36.74
32	.00714	77883	556	77605	2744666	35.24	32	.00763	79321	605	79018	2856323	36.01
33	.00729	77327	564	77045	2667061	34.49	33	.00769	78716	605	78413	2777305	35.28
34	.00739	76764	567	76480	2590016	33.74	34	.00769	78110	601	77810	2698892	34.55
35	.00748	76197	570	75912	2513536	32.99	35	.00769	77510	596	77212	2621082	33.82
36	.00760	75627	575	75339	2437624	32.23	36	.00771	76913	593	76617	2543870	33.07
37	.00773	75052	580	74762	2362285	31.48	37	.00774	76320	590	76025	2467254	32.33
38	.00788	74472	587	74178	2287523	30.72	38	.00777	75730	588	75436	2391229	31.58
39	.00804	73885	594	73588	2213345	29.96	39	.00782	75141	588	74847	2315793	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)	$\mathring{e}$(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)
40	.00823	73291	603	72989	2139757	29.20	40	.00789	74554	588	74259	2240945	30.06
41	.00845	72687	614	72380	2066768	28.43	41	.00800	73965	592	73669	2166686	29.29
42	.00872	72073	628	71759	1994388	27.67	42	.00818	73373	600	73073	2093017	28.53
43	.00904	71445	646	71122	1922629	26.91	43	.00845	72773	615	72466	2019943	27.76
44	.00942	70799	667	70466	1851506	26.15	44	.00880	72158	635	71841	1947478	26.99
45	.00986	70132	692	69786	1781041	25.40	45	.00921	71523	659	71194	1875637	26.22
46	.01036	69441	719	69081	1711254	24.64	46	.00967	70864	685	70522	1804443	25.46
47	.01089	68722	748	68347	1642173	23.90	47	.01016	70179	713	69822	1733921	24.71
48	.01147	67973	780	67583	1573826	23.15	48	.01069	69466	742	69094	1664099	23.96
49	.01210	67194	813	66787	1506242	22.42	49	.01125	68723	773	68337	1595004	23.21
50	.01279	66380	849	65956	1439455	21.68	50	.01188	67950	807	67547	1526668	22.47
51	.01357	65531	889	65087	1373499	20.96	51	.01259	67143	845	66720	1459121	21.73
52	.01448	64642	936	64174	1308413	20.24	52	.01338	66298	887	65854	1392401	21.00
53	.01554	63706	990	63211	1244239	19.53	53	.01427	65410	933	64944	1326547	20.28
54	.01673	62716	1049	62192	1181027	18.83	54	.01525	64477	983	63986	1261603	19.57
55	.01809	61667	1116	61110	1118836	18.14	55	.01637	63494	1039	62974	1197617	18.86
56	.01954	60552	1183	59960	1057726	17.47	56	.01759	62455	1098	61906	1134643	18.17
57	.02092	59369	1242	58748	997766	16.81	57	.01882	61356	1154	60779	1072738	17.48
58	.02219	58127	1290	57482	939018	16.15	58	.02002	60202	1206	59599	1011959	16.81
59	.02344	56837	1332	56171	881536	15.51	59	.02128	58996	1256	58369	952359	16.14
60	.02481	55504	1377	54816	825366	14.87	60	.02267	57741	1309	57086	893991	15.48
61	.02647	54127	1433	53411	770550	14.24	61	.02431	56431	1372	55745	836905	14.83
62	.02850	52695	1502	51944	717139	13.61	62	.02624	55060	1445	54337	781159	14.19
63	.03099	51193	1586	50400	665195	12.99	63	.02853	53615	1530	52850	726822	13.56
64	.03390	49607	1682	48766	614795	12.39	64	.03115	52085	1622	51274	673973	12.94
65	.03714	47925	1780	47035	566029	11.81	65	.03408	50462	1720	49603	622699	12.34
66	.04063	46145	1875	45208	518993	11.25	66	.03727	48743	1817	47834	573096	11.76
67	.04437	44270	1964	43288	473786	10.70	67	.04069	46926	1909	45971	525262	11.19
68	.04833	42306	2045	41284	430497	10.18	68	.04433	45016	1995	44019	479291	10.65
69	.05258	40261	2117	39203	389214	9.67	69	.04824	43021	2075	41983	435272	10.12
70	.05728	38144	2185	37052	350011	9.18	70	.05255	40946	2152	39870	393289	9.61
71	.06241	35960	2244	34838	312959	8.70	71	.05730	38794	2223	37683	353419	9.11
72	.06779	33716	2286	32573	278121	8.25	72	.06240	36571	2282	35430	315736	8.63
73	.07339	31430	2307	30277	245548	7.81	73	.06786	34289	2327	33126	280305	8.17
74	.07934	29123	2311	27968	215272	7.39	74	.07376	31962	2357	30784	247180	7.73
75	.08558	26813	2295	25665	187304	6.99	75	.07997	29605	2368	28421	216396	7.31
76	.09246	24518	2267	23385	161638	6.59	76	.08675	27237	2363	26056	187975	6.90
77	.10049	22251	2236	21133	138254	6.21	77	.09447	24875	2350	23700	161919	6.51
78	.10989	20015	2199	18915	117120	5.85	78	.10329	22525	2327	21361	138219	6.14
79	.12035	17816	2144	16744	98205	5.51	79	.11298	20198	2282	19057	116858	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)	$\mathring{e}$(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)
80	.13169	15672	2064	14640	81461	5.20	80	.12374	17916	2217	16808	97801	5.46
81	.14321	13608	1949	12634	66821	4.91	81	.13479	15699	2116	14641	80993	5.16
82	.15428	11659	1799	10760	54188	4.65	82	.14504	13583	1970	12598	66352	4.88
83	.16454	9860	1622	9049	43428	4.40	83	.15406	11613	1789	10719	53753	4.63
84	.17446	8238	1437	7519	34379	4.17	84	.16259	9824	1597	9025	43035	4.38
85	.18477	6801	1257	6173	26860	3.95	85	.17176	8227	1413	7520	34010	4.13
86	.19606	5544	1087	5001	20687	3.73	86	.18251	6814	1244	6192	26489	3.89
87	.20869	4457	930	3992	15686	3.52	87	.19540	5570	1088	5026	20298	3.64
88	.22270	3527	785	3134	11694	3.32	88	.21057	4482	944	4010	15272	3.41
89	.23793	2742	652	2415	8560	3.12	89	.22779	3538	806	3135	11262	3.18
90	.25413	2089	531	1824	6145	2.94	90	.24675	2732	674	2395	8127	2.97
91	.27101	1558	422	1347	4321	2.77	91	.26703	2058	550	1783	5732	2.79
92	.28830	1136	328	972	2974	2.62	92	.28824	1508	435	1291	3949	2.62
93	.30575	808	247	685	2002	2.48	93	.30575	1074	328	909	2658	2.48
94	.32315	561	181	471	1317	2.35	94	.32315	745	241	625	1748	2.35
95	.34044	380	129	315	846	2.23	95	.34044	504	172	419	1123	2.23
96	.35751	251	90	206	531	2.12	96	.35751	333	119	273	705	2.12
97	.37423	161	60	131	325	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	61	25	49	113	1.84	99	.40608	82	33	65	150	1.84
100	.42232	36	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	6	13	1.52
104	.49405	3	2	3	5	1.45	104	.49405	4	2	3	6	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	1	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)	$\mathring{e}$(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)
0	.06495	100000	6495	94826	5795532	57.96	0	.05179	100000	5179	95945	6131382	61.31
1	.01092	93505	1021	92994	5700706	60.97	1	.00972	94821	921	94361	6035437	63.65
2	.00576	92484	533	92217	5607712	60.63	2	.00490	93900	460	93670	5941077	63.27
3	.00406	91951	373	91764	5515495	59.98	3	.00358	93440	335	93272	5847407	62.58
4	.00326	91578	298	91429	5423731	59.23	4	.00287	93105	268	92971	5754135	61.80
5	.00274	91279	250	91155	5332302	58.42	5	.00234	92837	218	92728	5661164	60.98
6	.00233	91030	212	90924	5241148	57.58	6	.00193	92620	179	92530	5568436	60.12
7	.00201	90818	183	90726	5150224	56.71	7	.00161	92441	149	92366	5475906	59.24
8	.00178	90635	161	90555	5059498	55.82	8	.00139	92292	128	92228	5383539	58.33
9	.00162	90474	146	90401	4968943	54.92	9	.00124	92164	114	92107	5291311	57.41
10	.00153	90328	138	90259	4878542	54.01	10	.00116	92050	107	91997	5199204	56.48
11	.00153	90189	138	90121	4788284	53.09	11	.00117	91943	108	91889	5107208	55.55
12	.00161	90052	145	89979	4698163	52.17	12	.00127	91836	117	91777	5015318	54.61
13	.00179	89907	161	89826	4608184	51.26	13	.00147	91719	134	91652	4923541	53.68
14	.00204	89746	183	89654	4518358	50.35	14	.00173	91584	159	91505	4831890	52.76
15	.00233	89563	209	89458	4428704	49.45	15	.00205	91426	187	91332	4740385	51.85
16	.00265	89354	237	89235	4339246	48.56	16	.00238	91239	217	91130	4649052	50.95
17	.00295	89117	263	88986	4250010	47.69	17	.00269	91022	244	90900	4557922	50.08
18	.00323	88854	287	88711	4161025	46.83	18	.00295	90777	268	90644	4467023	49.21
19	.00348	88567	308	88414	4072314	45.98	19	.00318	90510	287	90366	4376379	48.35
20	.00374	88260	330	88095	3983900	45.14	20	.00341	90222	307	90069	4286013	47.51
21	.00400	87930	351	87754	3895805	44.31	21	.00364	89915	327	89751	4195944	46.67
22	.00419	87578	367	87395	3808051	43.48	22	.00382	89588	343	89416	4106193	45.83
23	.00431	87211	376	87023	3720656	42.66	23	.00395	89245	352	89069	4016777	45.01
24	.00436	86836	378	86646	3633633	41.85	24	.00403	88893	358	88714	3927708	44.18
25	.00439	86457	379	86267	3546987	41.03	25	.00409	88535	362	88354	3838995	43.36
26	.00444	86078	382	85887	3460719	40.20	26	.00415	88173	366	87990	3750641	42.54
27	.00451	85696	386	85503	3374833	39.38	27	.00422	87806	370	87621	3662652	41.71
28	.00461	85310	394	85113	3289330	38.56	28	.00429	87436	375	87249	3575030	40.89
29	.00475	84916	404	84714	3204217	37.73	29	.00437	87061	380	86871	3487782	40.06
30	.00491	84512	415	84305	3119503	36.91	30	.00445	86681	385	86489	3400910	39.23
31	.00507	84097	427	83884	3035198	36.09	31	.00453	86296	391	86101	3314422	38.41
32	.00525	83671	439	83451	2951314	35.27	32	.00463	85905	398	85706	3228321	37.58
33	.00543	83232	452	83006	2867863	34.46	33	.00476	85507	407	85303	3142615	36.75
34	.00562	82780	465	82548	2784857	33.64	34	.00490	85100	417	84891	3057312	35.93
35	.00584	82315	480	82075	2702309	32.83	35	.00507	84683	429	84468	2972420	35.10
36	.00608	81835	498	81586	2620235	32.02	36	.00525	84254	442	84033	2887952	34.28
37	.00638	81337	519	81077	2538649	31.21	37	.00545	83812	457	83583	2803919	33.46
38	.00674	80818	545	80546	2457572	30.41	38	.00569	83354	474	83117	2720336	32.64
39	.00715	80273	574	79986	2377026	29.61	39	.00596	82880	494	82633	2637219	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)	$\mathring{e}_x$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}_x$
40	.00762	79699	607	79396	2297040	28.82	40	.00625	82386	515	82129	2554586	31.01
41	.00811	79092	641	78771	2217644	28.04	41	.00658	81871	538	81602	2472457	30.20
42	.00860	78451	675	78113	2138873	27.26	42	.00692	81333	562	81052	2390855	29.40
43	.00909	77776	707	77423	2060759	26.50	43	.00727	80770	587	80477	2309803	28.60
44	.00959	77069	739	76699	1983337	25.73	44	.00764	80183	613	79877	2229326	27.80
45	.01013	76330	773	75943	1906637	24.98	45	.00805	79571	641	79250	2149449	27.01
46	.01073	75556	811	75151	1830694	24.23	46	.00851	78930	672	78594	2070199	26.23
47	.01141	74746	853	74319	1755543	23.49	47	.00902	78258	706	77905	1991605	25.45
48	.01218	73893	900	73443	1681224	22.75	48	.00958	77552	743	77181	1913700	24.68
49	.01304	72993	952	72517	1607781	22.03	49	.01019	76809	783	76418	1836519	23.91
50	.01398	72041	1007	71538	1535264	21.31	50	.01088	76026	827	75613	1760101	23.15
51	.01499	71034	1065	70501	1463727	20.61	51	.01163	75199	875	74762	1684489	22.40
52	.01601	69969	1120	69409	1393226	19.91	52	.01242	74324	923	73863	1609727	21.66
53	.01703	68849	1172	68263	1323817	19.23	53	.01324	73401	972	72915	1535864	20.92
54	.01808	67676	1224	67064	1255554	18.55	54	.01412	72429	1023	71918	1462949	20.20
55	.01922	66453	1277	65814	1188490	17.88	55	.01508	71406	1077	70868	1391032	19.48
56	.02049	65176	1336	64508	1122676	17.23	56	.01616	70329	1137	69761	1320164	18.77
57	.02194	63840	1400	63140	1058168	16.58	57	.01737	69193	1202	68592	1250403	18.07
58	.02357	62440	1472	61704	995028	15.94	58	.01871	67991	1272	67355	1181811	17.38
59	.02539	60968	1548	60194	933324	15.31	59	.02020	66719	1348	66045	1114456	16.70
60	.02739	59420	1628	58606	873130	14.69	60	.02187	65371	1430	64656	1048411	16.04
61	.02956	57792	1708	56938	814524	14.09	61	.02369	63941	1515	63183	983755	15.39
62	.03183	56084	1785	55192	757585	13.51	62	.02561	62426	1599	61627	920572	14.75
63	.03419	54299	1857	53371	702394	12.94	63	.02759	60827	1678	59988	858945	14.12
64	.03670	52442	1925	51480	649023	12.38	64	.02971	59149	1757	58270	798957	13.51
65	.03945	50518	1993	49521	597543	11.83	65	.03205	57391	1840	56472	740687	12.91
66	.04250	48525	2062	47493	548022	11.29	66	.03469	55552	1927	54588	684216	12.32
67	.04580	46462	2128	45398	500528	10.77	67	.03762	53625	2017	52616	629627	11.74
68	.04937	44334	2189	43240	455130	10.27	68	.04089	51607	2110	50552	577011	11.18
69	.05326	42145	2245	41023	411890	9.77	69	.04450	49497	2203	48396	526459	10.64
70	.05751	39901	2295	38753	370867	9.29	70	.04848	47295	2293	46148	478062	10.11
71	.06217	37606	2338	36437	332114	8.83	71	.05284	45002	2378	43813	431914	9.60
72	.06724	35268	2372	34082	295677	8.38	72	.05758	42624	2454	41397	388101	9.11
73	.07276	32896	2394	31700	261595	7.95	73	.06271	40170	2519	38910	346704	8.63
74	.07875	30503	2402	29302	229895	7.54	74	.06827	37650	2571	36365	307794	8.18
75	.08509	28101	2391	26905	200593	7.14	75	.07416	35080	2602	33779	271429	7.74
76	.09191	25710	2363	24528	173688	6.76	76	.08052	32478	2615	31171	237650	7.32
77	.09949	23347	2323	22185	149160	6.39	77	.08764	29863	2617	28554	206480	6.91
78	.10794	21024	2269	19889	126974	6.04	78	.09563	27246	2605	25943	177925	6.53
79	.11710	18755	2196	17657	107085	5.71	79	.10431	24640	2570	23355	151982	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)	$\overset{o}{e}$(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\overset{o}{e}$(x)
80	.12717	16558	2106	15506	89428	5.40	80	.11411	22070	2518	20811	128627	5.83
81	.13755	14453	1988	13459	73923	5.11	81	.12424	19552	2429	18337	107816	5.51
82	.14736	12465	1837	11546	60464	4.85	82	.13342	17123	2284	15980	89479	5.23
83	.15622	10628	1660	9798	48918	4.60	83	.14114	14838	2094	13791	73498	4.95
84	.16476	8968	1477	8229	39120	4.36	84	.14830	12744	1890	11799	59707	4.69
85	.17388	7490	1302	6839	30891	4.12	85	.15621	10854	1696	10006	47908	4.41
86	.18436	6188	1141	5617	24052	3.89	86	.16599	9158	1520	8398	37902	4.14
87	.19664	5047	992	4551	18435	3.65	87	.17830	7638	1362	6957	29504	3.86
88	.21085	4055	855	3627	13884	3.42	88	.19335	6276	1214	5670	22547	3.59
89	.22683	3200	726	2837	10257	3.21	89	.21090	5063	1068	4529	16877	3.33
90	.24430	2474	604	2172	7420	3.00	90	.23059	3995	921	3534	12348	3.09
91	.26295	1870	492	1624	5248	2.81	91	.25196	3074	774	2687	8814	2.87
92	.28247	1378	389	1183	3625	2.63	92	.27458	2299	631	1984	6127	2.66
93	.30257	989	299	839	2441	2.47	93	.29805	1668	497	1419	4143	2.48
94	.32300	690	223	578	1602	2.32	94	.32200	1171	377	982	2724	2.33
95	.34304	467	160	387	1024	2.19	95	.34304	794	272	658	1742	2.19
96	.36242	307	111	251	637	2.08	96	.36242	522	189	427	1084	2.08
97	.38091	196	74	158	386	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	33	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	17	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)	$\mathring{e}_x$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}_x$
0	.05286	100000	5286	95590	6143195	61.43	0	.04163	100000	4163	96576	6573589	65.74
1	.00580	94714	549	94439	6047605	63.85	1	.00501	95837	480	95597	6477013	67.58
2	.00301	94165	283	94023	5953166	63.22	2	.00257	95357	245	95235	6381416	66.92
3	.00200	93882	188	93788	5859142	62.41	3	.00177	95112	168	95028	6286181	66.09
4	.00167	93694	156	93616	5765355	61.53	4	.00143	94944	136	94876	6191154	65.21
5	.00147	93537	138	93468	5671739	60.64	5	.00121	94807	115	94750	6096278	64.30
6	.00132	93399	123	93338	5578271	59.72	6	.00103	94693	98	94644	6001528	63.38
7	,00120	93276	112	93220	5484933	58.80	7	.00091	94595	86	94552	5906884	62.44
8	.00111	93164	104	93112	5391713	57.87	8	.00081	94509	77	94471	5812332	61.50
9	.00105	93060	98	93011	5298601	56.94	9	.00075	94432	71	94397	5717861	60.55
10	.00102	92962	95	92915	5205590	56.00	10	.00073	94361	69	94327	5623465	59.60
11	.00103	92868	95	92820	5112675	55.05	11	.00074	94292	70	94257	5529138	58.64
12	.00108	92772	101	92722	5019855	54.11	12	.00080	94222	76	94184	5434881	57.68
13	.00120	92672	111	92616	4927133	53.17	13	.00091	94146	86	94103	5340697	56.73
14	.00136	92561	125	92498	4834517	52.23	14	.00106	94060	99	94011	5246594	55.78
15	.00154	92435	142	92364	4742019	51.30	15	.00123	93961	115	93903	5152583	54.84
16	.00172	92293	159	92214	4649655	50.38	16	.00140	93846	132	93780	5058680	53.90
17	.00191	92134	176	92046	4557441	49.47	17	.00156	93714	146	93641	4964900	52.98
18	.00209	91958	192	91862	4465395	48.56	18	.00169	93568	158	93489	4871259	52.06
19	.00226	91766	207	91663	4373532	47.66	19	.00180	93410	168	93326	4777771	51.15
20	.00244	91559	224	91447	4281870	46.77	20	.00190	93242	178	93153	4684445	50.24
21	.00262	91335	239	91216	4190423	45.88	21	.00202	93064	188	92970	4591292	49.33
22	.00276	91096	251	90970	4099207	45.00	22	.00212	92876	197	92778	4498322	48.43
23	.00284	90844	258	90715	4008237	44.12	23	.00219	92679	203	92578	4405545	47.54
24	.00289	90586	262	90455	3917522	43.25	24	.00225	92476	209	92372	4312967	46.64
25	.00292	90325	264	90193	3827066	42.37	25	.00231	92268	213	92161	4220595	45.74
26	.00297	90061	267	89927	3736873	41.49	26	.00238	92054	219	91945	4128434	44.85
27	.00304	89793	273	89657	3646946	40.61	27	.00245	91835	225	91723	4036489	43.95
28	.00314	89521	281	89380	3557290	39.74	28	.00254	91610	233	91494	3944766	43.06
29	.00326	89240	291	89095	3467909	38.86	29	.00265	91377	242	91256	3853273	42.17
30	.00340	88949	302	88798	3378815	37.99	30	.00277	91135	252	91009	3762016	41.28
31	.00355	88647	314	88490	3290017	37.11	31	.00289	90883	263	90751	3671007	40.39
32	.00371	88333	327	88169	3201527	36.24	32	.00302	90620	274	90483	3580256	39.51
33	.00388	88005	341	87835	3113358	35.38	33	.00316	90346	285	90203	3489773	38.63
34	.00407	87664	356	87486	3025523	34.51	34	.00330	90061	297	89912	3399570	37.75
35	.00428	87308	373	87121	2938037	33.65	35	.00345	89764	310	89609	3309658	36.87
36	.00452	86934	393	86738	2850917	32.79	36	.00363	89454	324	89292	3220049	36.00
37	.00481	86541	416	86333	2764179	31.94	37	.00382	89129	341	88959	3130757	35.13
38	.00514	86125	443	85904	2677846	31.09	38	.00405	88788	360	88608	3041798	34.26
39	.00552	85682	473	85446	2591942	30.25	39	.00431	88428	381	88238	2953190	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)	$\mathring{e}$(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)
40	.00595	85209	507	84956	2506496	29.42	40	.00460	88047	405	87845	2864952	32.54
41	.00642	84702	544	84430	2421540	28.59	41	.00490	87643	430	87428	2777107	31.69
42	.00691	84158	582	83867	2337110	27.77	42	.00522	87213	455	86986	2689679	30.84
43	.00744	83576	622	83266	2253243	26.96	43	.00553	86758	480	86518	2602694	30.00
44	.00799	82955	663	82623	2169977	26.16	44	.00586	86279	505	86026	2516175	29.16
45	.00860	82292	708	81938	2087354	25.37	45	.00621	85773	532	85507	2430149	28.33
46	.00927	81584	756	81206	2005416	24.58	46	.00661	85241	563	84959	2344642	27.51
47	.01002	80828	810	80423	1924211	23.81	47	.00706	84678	598	84379	2259683	26.69
48	.01087	80018	870	79583	1843788	23.04	48	.00759	84080	638	83761	2175305	25.87
49	.01180	79148	934	78681	1764205	22.29	49	.00817	83442	682	83101	2091544	25.07
50	.01281	78214	1002	77713	1685524	21.55	50	.00882	82760	730	82395	2008443	24.27
51	.01388	77212	1072	76677	1607811	20.82	51	.00952	82030	781	81639	1926048	23.48
52	.01501	76141	1143	75569	1531134	20.11	52	.01024	81249	832	80833	1844408	22.70
53	.01619	74998	1214	74391	1455565	19.41	53	.01098	80417	883	79976	1763575	21.93
54	.01743	73784	1286	73140	1381174	18.72	54	.01175	79534	934	79067	1683600	21.17
55	.01878	72497	1362	71816	1308034	18.04	55	.01261	78600	991	78104	1604533	20.41
56	.02023	71136	1439	70416	1236217	17.38	56	.01357	77609	1053	77082	1526428	19.67
57	.02173	69697	1514	68939	1165801	16.73	57	.01460	76556	1118	75997	1449346	18.93
58	.02326	68182	1586	67389	1096862	16.09	58	.01571	75438	1185	74845	1373349	18.21
59	.02487	66596	1656	65768	1029473	15.46	59	.01692	74253	1256	73624	1298504	17.49
60	.02663	64940	1730	64075	963705	14.84	60	.01829	72996	1335	72329	1224880	16.78
61	.02858	63210	1806	62307	899630	14.23	61	.01984	71661	1421	70950	1152551	16.08
62	.03067	61404	1883	60462	837323	13.64	62	.02152	70240	1512	69484	1081601	15.40
63	.03293	59520	1960	58540	776861	13.05	63	.02336	68728	1605	67925	1012117	14.73
64	.03539	57560	2037	56542	718321	12.48	64	.02538	67123	1703	66271	944192	14.07
65	.03812	55523	2116	54465	661779	11.92	65	.02764	65419	1808	64515	877921	13.42
66	.04113	53407	2197	52308	607315	11.37	66	.03021	63611	1921	62650	813406	12.79
67	.04441	51210	2274	50073	555006	10.84	67	.03309	61689	2041	60669	750756	12.17
68	.04797	48936	2347	47762	504933	10.32	68	.03633	59648	2167	58564	690087	11.57
69	.05185	46589	2416	45381	457171	9.81	69	.03994	57481	2296	56333	631523	10.99
70	.05612	44173	2479	42934	411790	9.32	70	.04395	55185	2425	53973	575189	10.42
71	.06081	41694	2536	40426	368857	8.85	71	.04835	52760	2551	51484	521217	9.88
72	.06599	39159	2584	37867	328430	8.39	72	.05311	50209	2666	48876	469732	9.36
73	.07167	36575	2621	35264	290564	7.94	73	.05822	47542	2768	46159	420857	8.85
74	.07788	33953	2644	32631	255300	7.52	74	.06374	44775	2854	43348	374698	8.37
75	.08449	31309	2645	29986	222669	7.11	75	.06966	41921	2920	40461	331350	7.90
76	.09161	28664	2626	27351	192682	6.72	76	.07613	39000	2969	37516	290890	7.46
77	.09945	26038	2589	24743	165332	6.35	77	.08331	36031	3002	34530	253374	7.03
78	.10808	23448	2534	22181	140589	6.00	78	.09129	33029	3015	31522	218843	6.63
79	.11738	20914	2455	19687	118407	5.66	79	.09998	30014	3001	28514	187322	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)	$\mathring{e}_x$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}_x$
80	.12749	18459	2353	17282	98721	5.35	80	.10960	27013	2961	25533	158808	5.88
81	.13799	16106	2222	14994	81439	5.06	81	.11970	24053	2879	22613	133275	5.54
82	.14824	13883	2058	12854	66444	4.79	82	.12954	21174	2743	19802	110662	5.23
83	.15801	11825	1869	10891	53590	4.53	83	.13885	18431	2559	17151	90860	4.93
84	.16772	9957	1670	9122	42699	4.29	84	.14816	15872	2351	14696	73708	4.64
85	.17798	8287	1475	7549	33577	4.05	85	.15821	13520	2139	12451	59013	4.36
86	.18932	6812	1290	6167	26028	3.82	86	.16964	11381	1931	10416	46562	4.09
87	.20203	5522	1116	4964	19861	3.60	87	.18284	9450	1728	8586	36146	3.82
88	.21619	4407	953	3930	14897	3.38	88	.19791	7722	1528	6958	27560	3.57
89	.23168	3454	800	3054	10966	3.18	89	.21471	6194	1330	5529	20602	3.33
90	.24830	2654	659	2324	7912	2.98	90	.23301	4864	1133	4297	15072	3.10
91	.26585	1995	530	1730	5588	2.80	91	.25257	3731	942	3260	10775	2.89
92	.28409	1464	416	1256	3859	2.63	92	.27311	2789	762	2408	7515	2.70
93	.30282	1048	317	890	2602	2.48	93	.29439	2027	597	1729	5108	2.52
94	.32187	731	235	613	1712	2.34	94	.31620	1430	452	1204	3379	2.36
95	.34064	496	169	411	1099	2.22	95	.33810	978	331	813	2175	2.22
96	.35894	327	117	268	688	2.10	96	.35894	647	232	531	1362	2.10
97	.37659	210	79	170	420	2.00	97	.37659	415	156	337	831	2.00
98	.39338	131	51	105	250	1.91	98	.39338	259	102	208	494	1.91
99	.40911	79	32	63	145	1.83	99	.40911	157	64	125	286	1.83
100	.42547	47	20	37	82	1.74	100	.42547	93	39	73	162	1.74
101	.44249	27	12	21	45	1.66	101	.44249	53	24	41	89	1.66
102	.46019	15	7	12	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)	$\mathring{e}$(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)
0	.03279	100000	3279	97115	6562876	65.63	0	.02551	100000	2551	97793	7112931	71.13
1	.00245	96721	237	96602	6465761	66.85	1	.00204	97449	199	97349	7015138	71.99
2	.00141	96484	136	96416	6369159	66.01	2	.00117	97250	114	97193	6917789	71.13
3	.00115	96348	111	96293	6272743	65.11	3	.00099	97136	96	97088	6820596	70.22
4	.00086	96237	83	96196	6176450	64.18	4	.00074	97040	72	97005	6723508	69.29
5	.00079	96155	76	96117	6080254	63.23	5	.00064	96969	62	96938	6626503	68.34
6	.00074	96079	71	96043	5984138	62.28	6	.00056	96907	54	96880	6529565	67.38
7	.00070	96008	67	95974	5888095	61.33	7	.00050	96853	48	96828	6432685	66.42
8	.00066	95941	63	95909	5792121	60.37	8	.00045	96804	44	96782	6335857	65.45
9	.00062	95878	59	95848	5696212	59.41	9	.00042	96760	41	96740	6239075	64.48
10	.00059	95818	57	95790	5600364	58.45	10	.00040	96720	39	96700	6142335	63.51
11	.00060	95761	57	95732	5504574	57.48	11	.00040	96681	39	96661	6045634	62.53
12	.00065	95704	62	95673	5408842	56.52	12	.00042	96642	41	96621	5948973	61.56
13	.00077	95641	74	95605	5313169	55.55	13	.00048	96601	46	96578	5852352	60.58
14	.00093	95568	89	95523	5217565	54.60	14	.00055	96555	53	96529	5755774	59.61
15	.00111	95479	106	95426	5122041	53.65	15	.00063	96502	61	96472	5659245	58.64
16	.00128	95373	122	95312	5026615	52.70	16	.00071	96442	69	96407	5562773	57.68
17	.00144	95251	137	95183	4931303	51.77	17	.00079	96373	76	96335	5466366	56.72
18	.00157	95114	150	95040	4836120	50.85	18	.00084	96297	81	96257	5370031	55.77
19	.00168	94965	160	94885	4741081	49.92	19	.00088	96216	85	96174	5273774	54.81
20	.00180	94805	171	94720	4646196	49.01	20	.00092	96132	88	96088	5177600	53.86
21	.00192	94634	181	94544	4551476	48.10	21	.00097	96043	93	95997	5081512	52.91
22	.00199	94453	188	94359	4456933	47.19	22	.00101	95951	97	95902	4985516	51.96
23	.00200	94265	189	94171	4362574	46.28	23	.00105	95854	101	95803	4889613	51.01
24	.00199	94076	187	93983	4268403	45.37	24	.00109	95753	104	95701	4793810	50.06
25	.00196	93889	184	93798	4174420	44.46	25	.00113	95649	108	95595	4698109	49.12
26	.00194	93706	182	93615	4080623	43.55	26	.00118	95541	112	95485	4602514	48.17
27	.00194	93524	182	93433	3987008	42.63	27	.00123	95429	117	95370	4507029	47.23
28	.00198	93342	185	93250	3893575	41.71	28	.00129	95311	123	95250	4411659	46.29
29	.00205	93157	191	93062	3800325	40.79	29	.00136	95189	129	95124	4316409	45.35
30	.00213	92966	198	92867	3707264	39.88	30	.00143	95060	136	94992	4221285	44.41
31	.00223	92768	207	92665	3614397	38.96	31	.00152	94924	144	94852	4126294	43.47
32	.00234	92561	217	92453	3521732	38.05	32	.00162	94780	153	94703	4031442	42.53
33	.00248	92344	229	92230	3429279	37.14	33	.00173	94626	163	94545	3936739	41.60
34	.00264	92115	243	91994	3337050	36.23	34	.00185	94463	175	94375	3842194	40.67
35	.00282	91872	259	91743	3245056	35.32	35	.00199	94288	188	94194	3747819	39.75
36	.00304	91613	279	91474	3153313	34.42	36	.00215	94100	202	93999	3653625	38.83
37	.00330	91334	302	91184	3061839	33.52	37	.00232	93899	218	93790	3559625	37.91
38	.00361	91033	328	90869	2970656	32.63	38	.00252	93681	236	93563	3465836	37.00
39	.00396	90704	359	90525	2879787	31.75	39	.00273	93445	255	93317	3372273	36.09

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

Male

x	q(x)	l(x)	d(x)	L(x)	T(x)	o e(x)
40	.00436	90345	394	90148	2789262	30.87
41	.00479	89952	431	89736	2699114	30.01
42	.00527	89520	472	89285	2609378	29.15
43	.00578	89049	514	88792	2520093	28.30
44	.00633	88535	560	88255	2431301	27.46
45	.00692	87975	609	87670	2343047	26.63
46	.00759	87365	663	87034	2255377	25.82
47	.00831	86703	721	86342	2168343	25.01
48	.00912	85982	784	85590	2082001	24.21
49	.00999	85198	851	84772	1996411	23.43
50	.01094	84347	922	83885	1911639	22.66
51	.01195	83424	997	82926	1827753	21.91
52	.01303	82427	1074	81890	1744828	21.17
53	.01418	81353	1154	80776	1662937	20.44
54	.01541	80199	1236	79581	1582162	19.73
55	.01671	78963	1320	78303	1502580	19.03
56	.01811	77643	1406	76940	1424277	18.34
57	.01961	76237	1495	75490	1347337	17.67
58	.02120	74742	1585	73950	1271848	17.02
59	.02290	73157	1675	72320	1197898	16.37
60	.02476	71482	1770	70597	1125578	15.75
61	.02673	69712	1863	68781	1054981	15.13
62	.02871	67849	1948	66875	986200	14.54
63	.03068	65901	2022	64890	919325	13.95
64	.03269	63880	2088	62835	854434	13.38
65	.03487	61791	2155	60714	791599	12.81
66	.03732	59637	2226	58524	730885	12.26
67	.04008	57411	2301	56260	672361	11.71
68	.04320	55110	2381	53920	616101	11.18
69	.04667	52729	2461	51499	562181	10.66
70	.05046	50268	2537	49000	510682	10.16
71	.05456	47732	2604	46430	461682	9.67
72	.05899	45128	2662	43796	415253	9.20
73	.06378	42465	2708	41111	371456	8.75
74	.06893	39757	2740	38387	330345	8.31
75	.07458	37016	2761	35636	291958	7.89
76	.08066	34256	2763	32874	256322	7.48
77	.08698	31493	2739	30123	223448	7.10
78	.09349	28754	2688	27410	193325	6.72
79	.10034	26066	2615	24758	165915	6.37

Female

x	q(x)	l(x)	d(x)	L(x)	T(x)	o e(x)
40	.00297	93190	277	93051	3278956	35.19
41	.00323	92912	300	92762	3185905	34.29
42	.00351	92612	325	92450	3093143	33.40
43	.00380	92287	351	92112	3000693	32.51
44	.00411	91937	377	91748	2908581	31.64
45	.00444	91559	407	91356	2816833	30.77
46	.00480	91153	438	90934	2725478	29.90
47	.00520	90715	471	90479	2634544	29.04
48	.00561	90243	507	89990	2544065	28.19
49	.00606	89737	544	89465	2454075	27.35
50	.00656	89193	585	88900	2364611	26.51
51	.00711	88607	630	88292	2275711	25.68
52	.00767	87977	675	87640	2187419	24.86
53	.00825	87303	720	86943	2099779	24.05
54	.00886	86583	767	86199	2012836	23.25
55	.00952	85816	817	85408	1926637	22.45
56	.01026	84999	872	84563	1841229	21.66
57	.01113	84127	936	83659	1756666	20.88
58	.01215	83191	1010	82686	1673007	20.11
59	.01329	82180	1092	81634	1590321	19.35
60	.01462	81088	1186	80495	1508687	18.61
61	.01605	79902	1282	79261	1428192	17.87
62	.01741	78620	1369	77936	1348930	17.16
63	.01866	77251	1442	76530	1270995	16.45
64	.01991	75809	1509	75055	1194465	15.76
65	.02128	74300	1581	73509	1119410	15.07
66	.02299	72719	1672	71883	1045901	14.38
67	.02512	71047	1785	70154	974018	13.71
68	.02780	69262	1926	68299	903864	13.05
69	.03097	67336	2085	66294	835565	12.41
70	.03449	65251	2250	64126	769271	11.79
71	.03828	63001	2412	61795	705145	11.19
72	.04239	60589	2569	59304	643351	10.62
73	.04681	58020	2716	56662	584046	10.07
74	.05156	55304	2851	53878	527384	9.54
75	.05681	52453	2980	50963	473506	9.03
76	.06249	49473	3091	47927	422543	8.54
77	.06836	46382	3171	44796	374615	8.08
78	.07435	43211	3213	41605	329819	7.63
79	.08064	39998	3225	38385	288214	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)	$\mathring{e}(x)$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}(x)$
80	.10761	23450	2524	22188	141157	6.02	80	.08744	36773	3215	35165	249829	6.79
81	.11558	20927	2419	19717	118969	5.69	81	.09497	33557	3187	31964	214664	6.40
82	.12452	18508	2305	17356	99252	5.36	82	.10332	30371	3138	28802	182700	6.02
83	.13456	16203	2180	15113	81896	5.05	83	.11260	27233	3066	25699	153898	5.65
84	.14555	14023	2041	13002	66783	4.76	84	.12277	24166	2967	22683	128199	5.30
85	.15723	11982	1884	11040	53781	4.49	85	.13375	21199	2835	19782	105516	4.98
86	.16939	10098	1710	9243	42741	4.23	86	.14546	18364	2671	17028	85735	4.67
87	.18189	8388	1526	7625	33498	3.99	87	.15787	15693	2477	14454	68706	4.38
88	.19472	6862	1336	6194	25873	3.77	88	.17100	13215	2260	12085	54252	4.11
89	.20793	5526	1149	4951	19679	3.56	89	.18488	10955	2025	9943	42167	3.85
90	.22159	4377	970	3892	14728	3.37	90	.19956	8930	1782	8039	32224	3.61
91	.23579	3407	803	3005	10836	3.18	91	.21508	7148	1537	6379	24185	3.38
92	.25062	2604	653	2277	7831	3.01	92	.23148	5611	1299	4961	17806	3.17
93	.26613	1951	519	1691	5554	2.85	93	.24879	4312	1073	3775	12845	2.98
94	.28239	1432	404	1230	3862	2.70	94	.26701	3239	865	2807	9069	2.80
95	.29845	1027	307	874	2632	2.56	95	.28533	2374	677	2035	6262	2.64
96	.31417	721	226	608	1758	2.44	96	.30358	1697	515	1439	4227	2.49
97	.32939	494	163	413	1151	2.33	97	.32158	1182	380	992	2788	2.36
98	.34395	332	114	275	738	2.23	98	.33915	802	272	666	1796	2.24
99	.35771	218	78	179	463	2.13	99	.35611	530	189	435	1130	2.13
100	.37202	140	52	114	285	2.04	100	.37202	341	127	278	695	2.04
101	.38690	88	34	71	171	1.95	101	.38690	214	83	173	417	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

x	q(x)	l(x)	d(x)	L(x)	T(x)	$\overset{o}{e}$(x)
0	.02937	100000	2937	97378	6666138	66.66
1	.00188	97063	183	96971	6568759	67.68
2	.00116	96880	113	96824	6471788	66.80
3	.00092	96767	89	96723	6374964	65.88
4	.00076	96678	73	96642	6278242	64.94
5	.00067	96605	64	96573	6181600	63.99
6	.00060	96541	58	96512	6085027	63.03
7	.00055	96482	53	96456	5988516	62.07
8	.00050	96429	49	96405	5892060	61.10
9	.00046	96381	44	96359	5795655	60.13
10	.00043	96336	42	96315	5699296	59.16
11	.00044	96295	42	96274	5602981	58.19
12	.00049	96253	48	96229	5506707	57.21
13	.00062	96205	60	96175	5410478	56.24
14	.00079	96146	76	96108	5314303	55.27
15	.00098	96070	94	96022	5218195	54.32
16	.00117	95975	112	95919	5122173	53.37
17	.00133	95863	128	95799	5026254	52.43
18	.00146	95735	140	95665	4930455	51.50
19	.00157	95595	150	95520	4834789	50.58
20	.00167	95445	160	95365	4739269	49.65
21	.00178	95286	169	95201	4643904	48.74
22	.00184	95116	175	95029	4548703	47.82
23	.00184	94942	175	94854	4453674	46.91
24	.00181	94767	172	94681	4358819	46.00
25	.00177	94595	167	94512	4264138	45.08
26	.00174	94428	164	94346	4169626	44.16
27	.00172	94264	162	94183	4075280	43.23
28	.00173	94102	163	94021	3981097	42.31
29	.00177	93939	167	93856	3887076	41.38
30	.00182	93772	171	93687	3793221	40.45
31	.00189	93601	177	93513	3699534	39.52
32	.00198	93424	185	93332	3606021	38.60
33	.00210	93239	196	93141	3512689	37.67
34	.00225	93044	209	92939	3419548	36.75
35	.00242	92835	225	92722	3326609	35.83
36	.00263	92610	244	92488	3233887	34.92
37	.00287	92366	265	92233	3141399	34.01
38	.00313	92101	288	91957	3049166	33.11
39	.00342	91813	314	91656	2957209	32.21

Female

x	q(x)	l(x)	d(x)	L(x)	T(x)	$\overset{o}{e}$(x)
0	.02262	100000	2262	98000	7324418	73.24
1	.00164	97738	160	97658	7226418	73.94
2	.00094	97578	92	97532	7128760	73.06
3	.00073	97486	71	97451	7031228	72.13
4	.00061	97415	59	97385	6933777	71.18
5	.00052	97356	51	97330	6836392	70.22
6	.00045	97305	44	97283	6739062	69.26
7	.00040	97261	39	97241	6641779	68.29
8	.00036	97222	35	97205	6544538	67.32
9	.00032	97187	31	97172	6447334	66.34
10	.00030	97156	29	97141	6350162	65.36
11	.00030	97127	29	97112	6253021	64.38
12	.00031	97098	30	97083	6155909	63.40
13	.00034	97068	33	97052	6058826	62.42
14	.00038	97035	37	97017	5961774	61.44
15	.00044	96998	43	96976	5864758	60.46
16	.00050	96955	49	96931	5767781	59.49
17	.00055	96906	53	96880	5670850	58.52
18	.00059	96853	57	96825	5573971	57.55
19	.00061	96796	59	96767	5477146	56.58
20	.00063	96737	61	96707	5380379	55.62
21	.00066	96676	64	96644	5283673	54.65
22	.00070	96612	67	96578	5187029	53.69
23	.00073	96545	70	96509	5090451	52.73
24	.00076	96474	74	96438	4993941	51.76
25	.00080	96401	77	96362	4897504	50.80
26	.00084	96324	81	96283	4801142	49.84
27	.00089	96242	86	96200	4704859	48.89
28	.00094	96157	90	96112	4608659	47.93
29	.00100	96066	96	96018	4512548	46.97
30	.00106	95971	102	95920	4416529	46.02
31	.00114	95869	109	95814	4320610	45.07
32	.00122	95760	117	95701	4224796	44.12
33	.00131	95643	125	95581	4129094	43.17
34	.00141	95518	134	95451	4033513	42.23
35	.00151	95384	145	95312	3938062	41.29
36	.00164	95240	156	95161	3842750	40.35
37	.00178	95083	170	94998	3747589	39.41
38	.00195	94914	185	94821	3652591	38.48
39	.00214	94729	203	94627	3557770	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)	$\mathring{e}$(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)
40	.00375	91499	343	91328	2865552	31.32	40	.00235	94526	222	94415	3463142	36.64
41	.00414	91156	377	90967	2774225	30.43	41	.00257	94304	243	94183	3368727	35.72
42	.00456	90779	414	90572	2683257	29.56	42	.00281	94061	264	93929	3274545	34.81
43	.00504	90365	455	90137	2592685	28.69	43	.00305	93797	286	93655	3180615	33.91
44	.00557	89909	501	89659	2502548	27.83	44	.00330	93512	309	93357	3086961	33.01
45	.00614	89409	549	89134	2412889	26.99	45	.00358	93203	333	93036	2993604	32.12
46	.00677	88860	602	88559	2323755	26.15	46	.00388	92869	360	92689	2900568	31.23
47	.00750	88258	662	87927	2235196	25.33	47	.00421	92509	389	92315	2807878	30.35
48	.00835	87596	731	87230	2147269	24.51	48	.00458	92120	422	91909	2715564	29.48
49	.00928	86865	806	86462	2060039	23.72	49	.00498	91698	457	91470	2623655	28.61
50	.01033	86058	889	85614	1973577	22.93	50	.00543	91242	496	90994	2532185	27.75
51	.01142	85170	973	84683	1887964	22.17	51	.00592	90746	537	90477	2441191	26.90
52	.01249	84197	1052	83671	1803280	21.42	52	.00640	90208	577	89920	2350714	26.06
53	.01349	83145	1122	82584	1719609	20.68	53	.00686	89631	615	89324	2260794	25.22
54	.01449	82023	1189	81429	1637025	19.96	54	.00732	89016	652	88691	2171470	24.39
55	.01553	80835	1256	80207	1555596	19.24	55	.00782	88365	691	88020	2082780	23.57
56	.01672	79579	1331	78914	1475389	18.54	56	.00840	87674	737	87306	1994760	22.75
57	.01814	78248	1420	77539	1396475	17.85	57	.00914	86937	795	86540	1907454	21.94
58	.01985	76829	1525	76066	1318936	17.17	58	.01006	86143	867	85710	1820914	21.14
59	.02180	75304	1642	74483	1242870	16.50	59	.01114	85276	950	84801	1735204	20.35
60	.02392	73662	1762	72781	1168387	15.86	60	.01237	84327	1043	83805	1650403	19.57
61	.02613	71900	1878	70961	1095606	15.24	61	.01367	83283	1139	82714	1566598	18.81
62	.02835	70021	1985	69029	1024646	14.63	62	.01495	82145	1228	81531	1483884	18.06
63	.03054	68037	2078	66998	955617	14.05	63	.01614	80917	1306	80264	1402353	17.33
64	.03276	65959	2161	64878	888619	13.47	64	.01734	79611	1380	78921	1322089	16.61
65	.03515	63798	2243	62676	823741	12.91	65	.01869	78231	1462	77500	1243168	15.89
66	.03776	61555	2324	60393	761064	12.36	66	.02030	76768	1558	75989	1165669	15.18
67	.04053	59231	2401	58031	700671	11.83	67	.02213	75210	1664	74378	1089679	14.49
68	.04349	56830	2471	55594	642641	11.31	68	.02423	73546	1782	72655	1015301	13.80
69	.04666	54359	2536	53091	587047	10.80	69	.02662	71764	1911	70809	942646	13.14
70	.05019	51822	2601	50522	533956	10.30	70	.02941	69853	2054	68826	871838	12.48
71	.05403	49221	2660	47892	483434	9.82	71	.03254	67799	2206	66696	803012	11.84
72	.05801	46562	2701	45211	435542	9.35	72	.03591	65593	2355	64415	736315	11.23
73	.06207	43861	2723	42500	390331	8.90	73	.03949	63238	2497	61989	671900	10.62
74	.06638	41138	2731	39773	347831	8.46	74	.04340	60741	2636	59423	609911	10.04
75	.07091	38407	2724	37046	308059	8.02	75	.04766	58104	2769	56720	550488	9.47
76	.07606	35684	2714	34327	271013	7.59	76	.05257	55335	2909	53881	493768	8.92
77	.08234	32970	2715	31613	236686	7.18	77	.05849	52426	3067	50893	439888	8.39
78	.09000	30255	2723	28894	205073	6.78	78	.06564	49360	3240	47740	388995	7.88
79	.09874	27532	2719	26173	176180	6.40	79	.07378	46120	3403	44419	341255	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)	$\mathring{e}$(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)
80	.10835	24814	2689	23469	150007	6.05	80	.08277	42717	3536	40949	296836	6.95
81	.11815	22125	2614	20818	126538	5.72	81	.09214	39181	3610	37376	255887	6.53
82	.12756	19511	2489	18266	105720	5.42	82	.10151	35571	3611	33766	218511	6.14
83	.13624	17022	2319	15862	87454	5.14	83	.11062	31960	3536	30192	184745	5.78
84	.14464	14703	2127	13640	71591	4.87	84	.11981	28425	3406	26722	154553	5.44
85	.15344	12576	1930	11611	57952	4.61	85	.12954	25019	3241	23399	127831	5.11
86	.16323	10647	1738	9778	46340	4.35	86	.14020	21778	3053	20252	104432	4.80
87	.17434	8909	1553	8132	36563	4.10	87	.15201	18725	2846	17302	84181	4.50
88	.18684	7356	1374	6668	28431	3.87	88	.16503	15879	2621	14568	66879	4.21
89	.20056	5981	1200	5381	21762	3.64	89	.17914	13258	2375	12071	52310	3.95
90	.21529	4782	1029	4267	16381	3.43	90	.19417	10883	2113	9826	40240	3.70
91	.23075	3752	866	3319	12114	3.23	91	.20994	8770	1841	7849	30414	3.47
92	.24668	2886	712	2530	8795	3.05	92	.22625	6929	1568	6145	22564	3.26
93	.26285	2174	572	1889	6264	2.88	93	.24294	5361	1302	4710	16419	3.06
94	.27903	1603	447	1379	4376	2.73	94	.25984	4059	1055	3531	11710	2.89
95	.29501	1156	341	985	2996	2.59	95	.27691	3004	832	2588	8178	2.72
96	.31063	815	253	688	2011	2.47	96	.29400	2172	639	1853	5590	2.57
97	.32573	562	183	470	1323	2.36	97	.31101	1534	477	1295	3737	2.44
98	.34017	379	129	314	853	2.25	98	.32778	1057	346	883	2442	2.31
99	.35378	250	88	206	539	2.16	99	.34417	710	244	588	1559	2.19
100	.36793	161	59	132	333	2.06	100	.36137	466	168	382	971	2.08
101	.38264	102	39	83	201	1.97	101	.37944	297	113	241	589	1.98
102	.39795	63	25	50	119	1.88	102	.39795	185	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	.50353	2	1	1	3	1.42	108	.50353	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

x	q(x)	l(x)	d(x)	L(x)	T(x)	$\overset{o}{e}$(x)
0	.02246	100000	2246	97962	6714571	67.15
1	.00132	97754	129	97690	6616609	67.69
2	.00091	97625	89	97581	6518919	66.77
3	.00078	97536	76	97498	6421338	65.84
4	.00064	97461	62	97429	6323840	64.89
5	.00058	97398	57	97370	6226410	63.93
6	.00055	97341	53	97315	6129041	62.96
7	.00051	97288	50	97263	6031726	62.00
8	.00046	97239	45	97216	5934462	61.03
9	.00040	97194	39	97174	5837246	60.06
10	.00035	97155	34	97138	5740072	59.08
11	.00035	97121	34	97104	5642934	58.10
12	.00042	97087	41	97067	5545830	57.12
13	.00060	97046	58	97017	5448764	56.15
14	.00085	96988	82	96947	5351746	55.18
15	.00113	96906	109	96851	5254799	54.23
16	.00139	96797	134	96729	5157948	53.29
17	.00162	96662	157	96584	5061219	52.36
18	.00181	96506	174	96418	4964635	51.44
19	.00195	96331	188	96237	4868217	50.54
20	.00209	96144	201	96043	4771979	49.63
21	.00223	95942	214	95835	4675937	48.74
22	.00230	95728	220	95618	4580101	47.84
23	.00228	95508	218	95399	4484484	46.95
24	.00220	95290	210	95185	4389085	46.06
25	.00209	95080	199	94981	4293900	45.16
26	.00200	94881	190	94786	4198919	44.25
27	.00195	94691	185	94599	4104133	43.34
28	.00196	94506	185	94414	4009534	42.43
29	.00202	94321	190	94226	3915121	41.51
30	.00209	94131	197	94032	3820895	40.59
31	.00217	93934	204	93831	3726863	39.68
32	.00227	93729	213	93623	3633031	38.76
33	.00239	93516	223	93405	3539408	37.85
34	.00252	93293	235	93175	3446004	36.94
35	.00268	93058	250	92933	3352828	36.03
36	.00288	92808	267	92675	3259895	35.13
37	.00310	92541	287	92398	3167221	34.22
38	.00337	92254	311	92099	3074823	33.33
39	.00367	91943	338	91774	2982724	32.44

Female

x	q(x)	l(x)	d(x)	L(x)	T(x)	$\overset{o}{e}$(x)
0	.01759	100000	1759	98414	7486676	74.87
1	.00117	98241	115	98183	7388262	75.21
2	.00073	98126	72	98090	7290079	74.29
3	.00058	98054	57	98025	7191989	73.35
4	.00048	97997	47	97973	7093964	72.39
5	.00042	97949	42	97929	6995991	71.42
6	.00038	97908	37	97889	6898062	70.45
7	.00034	97871	33	97854	6800173	69.48
8	.00031	97838	30	97823	6702318	68.50
9	.00027	97808	27	97794	6604496	67.53
10	.00025	97781	25	97769	6506701	66.54
11	.00024	97756	24	97744	6408933	65.56
12	.00026	97732	26	97719	6311189	64.58
13	.00032	97707	31	97691	6213469	63.59
14	.00039	97676	39	97656	6115778	62.61
15	.00049	97637	47	97613	6018122	61.64
16	.00057	97589	56	97562	5920509	60.67
17	.00064	97534	62	97503	5822947	59.70
18	.00068	97471	66	97438	5725445	58.74
19	.00069	97405	68	97372	5628006	57.78
20	.00071	97338	69	97303	5530635	56.82
21	.00073	97269	71	97234	5433332	55.86
22	.00075	97198	73	97162	5336098	54.90
23	.00076	97126	74	97088	5238936	53.94
24	.00078	97051	76	97013	5141848	52.98
25	.00081	96975	78	96936	5044835	52.02
26	.00083	96897	81	96856	4947899	51.06
27	.00087	96816	84	96774	4851043	50.11
28	.00090	96732	87	96689	4754268	49.15
29	.00095	96645	92	96599	4657580	48.19
30	.00101	96553	97	96504	4560981	47.24
31	.00107	96456	103	96404	4464477	46.29
32	.00115	96353	111	96297	4368073	45.33
33	.00126	96241	121	96181	4271776	44.39
34	.00139	96120	133	96053	4175595	43.44
35	.00153	95987	147	95914	4079542	42.50
36	.00168	95840	161	95760	3983628	41.57
37	.00184	95679	176	95591	3887869	40.63
38	.00199	95504	190	95409	3792277	39.71
39	.00215	95314	205	95211	3696869	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)	$\mathring{e}$(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)
40	.00402	91605	368	91421	2890950	31.56	40	.00231	95109	220	94999	3601657	37.87
41	.00440	91237	402	91036	2799529	30.68	41	.00251	94889	238	94770	3506658	36.96
42	.00481	90835	437	90617	2708493	29.82	42	.00272	94651	258	94522	3411888	36.05
43	.00525	90398	475	90161	2617876	28.96	43	.00297	94394	281	94253	3317365	35.14
44	.00573	89923	515	89666	2527715	28.11	44	.00325	94113	306	93960	3223112	34.25
45	.00626	89408	560	89128	2438050	27.27	45	.00355	93807	333	93641	3129152	33.36
46	.00685	88848	609	88544	2348922	26.44	46	.00387	93474	362	93293	3035511	32.47
47	.00749	88240	661	87910	2260378	25.62	47	.00421	93112	392	92916	2942218	31.60
48	.00817	87579	715	87222	2172468	24.81	48	.00455	92720	422	92509	2849302	30.73
49	.00891	86864	774	86477	2085246	24.01	49	.00490	92299	452	92072	2756793	29.87
50	.00972	86090	837	85671	1998770	23.22	50	.00528	91846	485	91604	2664721	29.01
51	.01061	85253	905	84801	1913098	22.44	51	.00570	91361	520	91101	2573117	28.16
52	.01162	84349	980	83858	1828297	21.68	52	.00615	90841	558	90562	2482016	27.32
53	.01276	83368	1064	82837	1744439	20.92	53	.00663	90282	599	89983	2391454	26.49
54	.01402	82305	1154	81728	1661602	20.19	54	.00716	89684	642	89363	2301471	25.66
55	.01539	81151	1249	80526	1579875	19.47	55	.00773	89042	688	88698	2212109	24.84
56	.01684	79902	1345	79229	1499348	18.76	56	.00835	88353	737	87985	2123411	24.03
57	.01837	78557	1443	77835	1420119	18.08	57	.00900	87616	788	87222	2035427	23.23
58	.01997	77114	1540	76344	1342283	17.41	58	.00968	86828	840	86408	1948205	22.44
59	.02166	75574	1637	74755	1265940	16.75	59	.01040	85987	894	85540	1861797	21.65
60	.02347	73937	1736	73069	1191184	16.11	60	.01123	85093	956	84615	1776257	20.87
61	.02542	72201	1835	71284	1118115	15.49	61	.01214	84137	1022	83627	1691642	20.11
62	.02744	70366	1931	69400	1046832	14.88	62	.01306	83116	1085	82573	1608015	19.35
63	.02955	68435	2022	67424	977432	14.28	63	.01396	82030	1145	81458	1525442	18.60
64	.03176	66412	2110	65358	910008	13.70	64	.01491	80885	1206	80282	1443984	17.85
65	.03416	64303	2196	63205	844650	13.14	65	.01598	79680	1274	79043	1363702	17.11
66	.03675	62106	2282	60965	781446	12.58	66	.01728	78406	1355	77728	1284659	16.38
67	.03949	59824	2362	58643	720480	12.04	67	.01881	77051	1449	76327	1206931	15.66
68	.04239	57462	2436	56244	661837	11.52	68	.02062	75602	1559	74823	1130604	14.95
69	.04549	55026	2503	53774	605593	11.01	69	.02271	74043	1682	73202	1055782	14.26
70	.04887	52523	2567	51239	551819	10.51	70	.02513	72361	1818	71452	982579	13.58
71	.05255	49956	2625	48643	500580	10.02	71	.02782	70543	1963	69562	911127	12.92
72	.05651	47331	2675	45993	451937	9.55	72	.03076	68580	2110	67526	841565	12.27
73	.06078	44656	2714	43299	405943	9.09	73	.03393	66471	2255	65343	774040	11.64
74	.06538	41942	2742	40571	362645	8.65	74	.03739	64216	2401	63015	708696	11.04
75	.07039	39200	2759	37820	322074	8.22	75	.04126	61815	2551	60539	645681	10.45
76	.07583	36440	2763	35059	284254	7.80	76	.04563	59264	2704	57912	585142	9.87
77	.08172	33677	2752	32301	249195	7.40	77	.05053	56560	2858	55131	527230	9.32
78	.08807	30925	2723	29563	216894	7.01	78	.05601	53702	3008	52198	472100	8.79
79	.09491	28202	2677	26863	187331	6.64	79	.06209	50694	3147	49120	419902	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	.10224	25525	2610	24220	160467	6.29	80	.06871	47546	3267	45913	370782	7.80
81	.11013	22915	2524	21654	136247	5.95	81	.07590	44279	3361	42599	324869	7.34
82	.11867	20392	2420	19182	114593	5.62	82	.08374	40918	3427	39205	282270	6.90
83	.12792	17972	2299	16822	95412	5.31	83	.09226	37492	3459	35762	243065	6.48
84	.13784	15673	2160	14593	78589	5.01	84	.10143	34033	3452	32307	207303	6.09
85	.14834	13513	2004	12510	63997	4.74	85	.11124	30581	3402	28880	174996	5.72
86	.15936	11508	1834	10591	51486	4.47	86	.12164	27179	3306	25526	146116	5.38
87	.17086	9674	1653	8848	40895	4.23	87	.13263	23873	3166	22290	120590	5.05
88	.18283	8021	1467	7288	32047	4.00	88	.14419	20707	2986	19214	98300	4.75
89	.19529	6555	1280	5915	24759	3.78	89	.15634	17721	2770	16336	79086	4.46
90	.20824	5275	1098	4725	18845	3.57	90	.16907	14950	2528	13687	62750	4.20
91	.22170	4176	926	3713	14119	3.38	91	.18238	12423	2266	11290	49064	3.95
92	.23570	3250	766	2867	10406	3.20	92	.19628	10157	1994	9160	37774	3.72
93	.25024	2484	622	2173	7538	3.03	93	.21077	8163	1721	7303	28613	3.51
94	.26532	1863	494	1616	5365	2.88	94	.22583	6443	1455	5715	21310	3.31
95	.28024	1368	383	1177	3749	2.74	95	.24099	4988	1202	4387	15595	3.13
96	.29486	985	290	840	2573	2.61	96	.25614	3786	970	3301	11208	2.96
97	.30904	695	215	587	1733	2.50	97	.27115	2816	764	2434	7907	2.81
98	.32266	480	155	402	1146	2.39	98	.28587	2053	587	1759	5473	2.67
99	.33556	325	109	271	743	2.29	99	.30016	1466	440	1246	3714	2.53
100	.34899	216	75	178	473	2.19	100	.31517	1026	323	864	2468	2.41
101	.36294	141	51	115	295	2.09	101	.33093	703	232	586	1604	2.28
102	.37746	90	34	73	179	2.00	102	.34747	470	163	388	1017	2.16
103	.39256	56	22	45	107	1.92	103	.36485	307	112	251	629	2.05
104	.40826	34	14	27	62	1.83	104	.38309	195	75	157	378	1.94
105	.42459	20	9	16	35	1.75	105	.40225	120	48	96	221	1.84
106	.44158	12	5	9	19	1.67	106	.42236	72	30	57	125	1.74
107	.45924	6	3	5	10	1.59	107	.44348	41	18	32	68	1.64
108	.47761	3	2	3	5	1.51	108	.46565	23	11	18	36	1.55
109	.49671	2	1	1	3	1.44	109	.48893	12	6	9	18	1.46
110	.51658	1	0	1	1	1.37	110	.51338	6	3	5	9	1.38
111	.53725	0	0	0	1	1.31	111	.53725	3	2	2	4	1.31
112	.55874	0	0	0	0	1.24	112	.55874	1	1	1	2	1.24
113	.58108	0	0	0	0	1.18	113	.58108	1	0	0	1	1.18
114	.60433	0	0	0	0	1.12	114	.60433	0	0	0	0	1.12
115	.62850	0	0	0	0	1.06	115	.62850	0	0	0	0	1.06
116	.65364	0	0	0	0	1.00	116	.65364	0	0	0	0	1.00
117	.67979	0	0	0	0	.95	117	.67979	0	0	0	0	.95
118	.70698	0	0	0	0	.89	118	.70698	0	0	0	0	.89
119	.73526	0	0	0	0	.84	119	.73526	0	0	0	0	.84

Table 3i. Calendar Year 1980 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)
0	.01398	100000	1398	98776	6993977	69.94	0	.01125	100000	1125	99015	7751886	77.52
1	.00107	98602	105	98549	6895200	69.93	1	.00086	98875	85	98833	7652871	77.40
2	.00072	98497	71	98462	6796651	69.00	2	.00056	98791	55	98763	7554038	76.47
3	.00060	98426	59	98397	6698189	68.05	3	.00042	98736	41	98715	7455275	75.51
4	.00047	98367	46	98344	6599793	67.09	4	.00031	98694	31	98679	7356560	74.54
5	.00042	98322	41	98301	6501448	66.12	5	.00029	98663	29	98649	7257881	73.56
6	.00039	98280	39	98261	6403147	65.15	6	.00028	98635	28	98621	7159232	72.58
7	.00037	98241	36	98223	6304887	64.18	7	.00026	98607	26	98594	7060611	71.60
8	.00032	98205	32	98189	6206663	63.20	8	.00024	98581	24	98569	6962017	70.62
9	.00027	98173	27	98160	6108474	62.22	9	.00022	98557	21	98547	6863448	69.64
10	.00022	98147	22	98136	6010314	61.24	10	.00019	98536	19	98527	6764902	68.65
11	.00022	98125	21	98114	5912178	60.25	11	.00018	98517	18	98508	6666375	67.67
12	.00029	98103	29	98089	5814064	59.26	12	.00020	98500	19	98490	6567867	66.68
13	.00047	98075	46	98052	5715975	58.28	13	.00025	98480	25	98468	6469377	65.69
14	.00071	98029	70	97994	5617923	57.31	14	.00033	98456	32	98440	6370909	64.71
15	.00098	97960	96	97912	5519929	56.35	15	.00041	98424	41	98403	6272469	63.73
16	.00123	97864	121	97803	5422018	55.40	16	.00050	98383	49	98358	6174066	62.76
17	.00146	97743	142	97672	5324214	54.47	17	.00056	98334	55	98306	6075708	61.79
18	.00163	97600	159	97521	5226543	53.55	18	.00059	98279	58	98250	5977402	60.82
19	.00176	97441	171	97356	5129022	52.64	19	.00060	98221	59	98192	5879152	59.86
20	.00188	97270	183	97179	5031666	51.73	20	.00060	98162	59	98133	5780960	58.89
21	.00200	97087	195	96990	4934487	50.83	21	.00061	98103	60	98074	5682827	57.93
22	.00208	96892	201	96792	4837498	49.93	22	.00062	98044	60	98014	5584753	56.96
23	.00209	96691	202	96590	4740706	49.03	23	.00063	97983	61	97953	5486740	56.00
24	.00206	96489	199	96389	4644117	48.13	24	.00063	97922	62	97891	5388787	55.03
25	.00201	96290	194	96193	4547727	47.23	25	.00065	97860	63	97828	5290896	54.07
26	.00197	96096	189	96001	4451535	46.32	26	.00066	97797	64	97764	5193068	53.10
27	.00193	95906	185	95814	4355533	45.41	27	.00068	97732	66	97699	5095303	52.14
28	.00191	95721	182	95630	4259720	44.50	28	.00069	97666	68	97632	4997604	51.17
29	.00189	95539	181	95448	4164090	43.59	29	.00072	97598	70	97564	4899972	50.21
30	.00189	95358	180	95268	4068641	42.67	30	.00075	97529	73	97492	4802408	49.24
31	.00189	95178	180	95088	3973374	41.75	31	.00078	97456	77	97417	4704916	48.28
32	.00191	94998	182	94907	3878286	40.82	32	.00083	97379	81	97339	4607499	47.32
33	.00196	94816	186	94723	3783379	39.90	33	.00089	97298	86	97255	4510160	46.35
34	.00204	94630	193	94533	3688656	38.98	34	.00095	97212	93	97166	4412905	45.39
35	.00214	94437	202	94335	3594123	38.06	35	.00103	97119	100	97069	4315739	44.44
36	.00227	94234	214	94127	3499788	37.14	36	.00112	97019	109	96965	4218670	43.48
37	.00241	94020	227	93907	3405660	36.22	37	.00122	96910	119	96851	4121706	42.53
38	.00259	93794	242	93672	3311753	35.31	38	.00134	96792	130	96727	4024854	41.58
39	.00278	93551	260	93421	3218081	34.40	39	.00148	96662	143	96590	3928128	40.64

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

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)
40	.00301	93291	281	93150	3124660	33.49	40	.00163	96518	158	96439	3831538	39.70
41	.00328	93009	305	92857	3031510	32.59	41	.00180	96361	174	96274	3735099	38.76
42	.00359	92704	333	92538	2938653	31.70	42	.00199	96187	191	96091	3638825	37.83
43	.00394	92371	364	92189	2846116	30.81	43	.00219	95996	210	95890	3542734	36.91
44	.00433	92007	398	91808	2753927	29.93	44	.00241	95785	231	95670	3446843	35.99
45	.00477	91609	437	91391	2662119	29.06	45	.00265	95554	254	95427	3351174	35.07
46	.00525	91172	479	90933	2570728	28.20	46	.00291	95301	278	95162	3255746	34.16
47	.00579	90694	525	90431	2479795	27.34	47	.00320	95023	304	94871	3160584	33.26
48	.00638	90169	575	89881	2389363	26.50	48	.00350	94719	332	94553	3065713	32.37
49	.00703	89594	630	89279	2299482	25.67	49	.00382	94388	361	94207	2971160	31.48
50	.00775	88964	690	88619	2210203	24.84	50	.00418	94027	393	93830	2876953	30.60
51	.00853	88274	753	87898	2121584	24.03	51	.00457	93634	427	93420	2783123	29.72
52	.00936	87521	819	87112	2033687	23.24	52	.00497	93206	463	92975	2689703	28.86
53	.01022	86702	886	86259	1946575	22.45	53	.00538	92743	499	92494	2596728	28.00
54	.01115	85816	957	85337	1860316	21.68	54	.00582	92244	537	91976	2504234	27.15
55	.01217	84859	1033	84343	1774979	20.92	55	.00630	91708	577	91419	2412258	26.30
56	.01329	83826	1114	83269	1690636	20.17	56	.00683	91130	622	90819	2320839	25.47
57	.01447	82712	1197	82114	1607366	19.43	57	.00741	90508	671	90173	2230020	24.64
58	.01571	81515	1281	80875	1525253	18.71	58	.00805	89838	724	89476	2139847	23.82
59	.01703	80235	1367	79552	1444377	18.00	59	.00876	89114	781	88724	2050372	23.01
60	.01846	78868	1456	78140	1364826	17.31	60	.00955	88333	843	87912	1961648	22.21
61	.02005	77412	1552	76636	1286685	16.62	61	.01040	87490	910	87035	1873737	21.42
62	.02187	75860	1659	75031	1210049	15.95	62	.01131	86580	980	86090	1786702	20.64
63	.02395	74201	1777	73313	1135018	15.30	63	.01229	85600	1052	85075	1700611	19.87
64	.02627	72424	1903	71473	1061706	14.66	64	.01334	84549	1127	83985	1615537	19.11
65	.02882	70521	2033	69505	990233	14.04	65	.01452	83421	1211	82816	1531552	18.36
66	.03152	68489	2159	67409	920728	13.44	66	.01582	82210	1301	81560	1448736	17.62
67	.03429	66330	2274	65193	853318	12.86	67	.01720	80910	1391	80214	1367176	16.90
68	.03709	64056	2376	62868	788125	12.30	68	.01863	79518	1482	78778	1286962	16.18
69	.03999	61680	2467	60447	725258	11.76	69	.02017	78037	1574	77250	1208184	15.48
70	.04311	59213	2553	57937	664811	11.23	70	.02194	76462	1677	75624	1130935	14.79
71	.04654	56660	2637	55342	606874	10.71	71	.02395	74785	1791	73889	1055311	14.11
72	.05025	54023	2715	52666	551533	10.21	72	.02616	72994	1909	72039	981422	13.45
73	.05428	51308	2785	49916	498867	9.72	73	.02856	71084	2030	70069	909383	12.79
74	.05865	48523	2846	47100	448951	9.25	74	.03123	69054	2156	67976	839313	12.15
75	.06342	45677	2897	44229	401850	8.80	75	.03427	66897	2293	65751	771338	11.53
76	.06855	42781	2933	41314	357621	8.36	76	.03775	64605	2439	63385	705587	10.92
77	.07396	39848	2947	38374	316307	7.94	77	.04163	62166	2588	60872	642201	10.33
78	.07961	36901	2938	35432	277933	7.53	78	.04597	59578	2739	58209	581329	9.76
79	.08562	33963	2908	32509	242501	7.14	79	.05081	56839	2888	55395	523121	9.20

Table 3i. Calendar Year 1980 United States Life Tables, by Sex

Male

x	q(x)	l(x)	d(x)	L(x)	T(x)	$\overset{o}{e}$(x)
80	.09204	31055	2858	29626	209992	6.76
81	.09907	28197	2793	26800	180366	6.40
82	.10684	25403	2714	24046	153566	6.05
83	.11547	22689	2620	21379	129519	5.71
84	.12487	20069	2506	18816	108140	5.39
85	.13490	17563	2369	16379	89324	5.09
86	.14546	15194	2210	14089	72945	4.80
87	.15646	12984	2032	11968	58856	4.53
88	.16792	10952	1839	10033	46888	4.28
89	.17985	9113	1639	8294	36855	4.04
90	.19232	7474	1437	6756	28561	3.82
91	.20537	6037	1240	5417	21806	3.61
92	.21905	4797	1051	4272	16389	3.42
93	.23341	3746	874	3309	12117	3.23
94	.24846	2872	714	2515	8808	3.07
95	.26327	2158	568	1874	6293	2.92
96	.27768	1590	442	1369	4419	2.78
97	.29151	1149	335	981	3049	2.66
98	.30460	814	248	690	2068	2.54
99	.31678	566	179	476	1378	2.44
100	.32945	387	127	323	902	2.33
101	.34263	259	89	215	579	2.23
102	.35633	170	61	140	364	2.14
103	.37059	110	41	89	224	2.05
104	.38541	69	27	56	135	1.96
105	.40083	42	17	34	79	1.87
106	.41686	25	11	20	45	1.79
107	.43353	15	6	12	25	1.70
108	.45088	8	4	7	14	1.63
109	.46891	5	2	4	7	1.55
110	.48767	2	1	2	4	1.48
111	.50717	1	1	1	2	1.41
112	.52746	1	0	0	1	1.34
113	.54856	0	0	0	0	1.27
114	.57050	0	0	0	0	1.21
115	.59332	0	0	0	0	1.14
116	.61705	0	0	0	0	1.08
117	.64174	0	0	0	0	1.03
118	.66741	0	0	0	0	.97
119	.69410	0	0	0	0	.92

Female

x	q(x)	l(x)	d(x)	L(x)	T(x)	$\overset{o}{e}$(x)
80	.05620	53952	3032	52436	467725	8.67
81	.06221	50920	3168	49336	415290	8.16
82	.06892	47752	3291	46106	365954	7.66
83	.07637	44461	3395	42763	319847	7.19
84	.08456	41066	3473	39329	277084	6.75
85	.09350	37593	3515	35835	237755	6.32
86	.10318	34078	3516	32320	201919	5.93
87	.11359	30562	3471	28826	169600	5.55
88	.12475	27090	3379	25401	140773	5.20
89	.13667	23711	3241	22091	115373	4.87
90	.14938	20470	3058	18941	93282	4.56
91	.16289	17412	2836	15994	74341	4.27
92	.17721	14576	2583	13284	58347	4.00
93	.19234	11993	2307	10840	45062	3.76
94	.20828	9686	2017	8677	34223	3.53
95	.22418	7669	1719	6809	25545	3.33
96	.23980	5950	1427	5236	18736	3.15
97	.25495	4523	1153	3946	13500	2.98
98	.26937	3370	908	2916	9554	2.84
99	.28284	2462	696	2114	6638	2.70
100	.29698	1766	524	1503	4524	2.56
101	.31183	1241	387	1048	3020	2.43
102	.32742	854	280	714	1973	2.31
103	.34379	575	198	476	1258	2.19
104	.36098	377	136	309	782	2.08
105	.37903	241	91	195	473	1.97
106	.39799	150	60	120	278	1.86
107	.41788	90	38	71	158	1.76
108	.43878	52	23	41	87	1.66
109	.46072	29	14	23	46	1.57
110	.48375	16	8	12	24	1.48
111	.50717	8	4	6	12	1.41
112	.52746	4	2	3	5	1.34
113	.54856	2	1	1	2	1.27
114	.57050	1	0	1	1	1.21
115	.59332	0	0	0	0	1.14
116	.61705	0	0	0	0	1.08
117	.64174	0	0	0	0	1.03
118	.66741	0	0	0	0	.97
119	.69410	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)	$\mathring{e}_x$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}_x$
0	.00974	100000	974	99148	7243068	72.43	0	.00773	100000	773	99322	7987196	79.87
1	.00078	99026	77	98988	7143921	72.14	1	.00061	99227	60	99196	7887873	79.49
2	.00053	98949	52	98923	7044933	71.20	2	.00040	99166	39	99146	7788677	78.54
3	.00044	98897	43	98876	6946010	70.23	3	.00030	99127	29	99112	7689531	77.57
4	.00034	98854	34	98837	6847134	69.27	4	.00022	99097	22	99086	7590419	76.60
5	.00031	98820	30	98805	6748297	68.29	5	.00020	99075	20	99065	7491332	75.61
6	.00028	98790	28	98776	6649492	67.31	6	.00019	99055	18	99046	7392267	74.63
7	.00026	98762	26	98749	6550715	66.33	7	.00017	99037	17	99029	7293221	73.64
8	.00023	98736	23	98725	6451966	65.35	8	.00016	99020	15	99012	7194192	72.65
9	.00020	98713	19	98704	6353241	64.36	9	.00014	99005	14	98998	7095180	71.67
10	.00017	98694	16	98686	6254537	63.37	10	.00012	98991	12	98985	6996182	70.67
11	.00017	98678	17	98669	6155852	62.38	11	.00012	98979	11	98973	6897197	69.68
12	.00023	98661	23	98650	6057182	61.39	12	.00014	98968	14	98961	6798224	68.69
13	.00037	98638	37	98620	5958533	60.41	13	.00019	98954	19	98945	6699263	67.70
14	.00057	98601	57	98573	5859913	59.43	14	.00026	98935	26	98922	6600319	66.71
15	.00080	98545	79	98505	5761340	58.46	15	.00035	98909	34	98892	6501396	65.73
16	.00101	98466	99	98416	5662835	57.51	16	.00043	98875	42	98854	6402504	64.75
17	.00119	98367	117	98308	5564419	56.57	17	.00048	98833	48	98809	6303651	63.78
18	.00132	98250	130	98185	5466111	55.63	18	.00051	98785	51	98760	6204842	62.81
19	.00142	98119	139	98050	5367926	54.71	19	.00052	98734	51	98709	6106082	61.84
20	.00151	97980	148	97906	5269876	53.79	20	.00052	98683	51	98657	6007374	60.88
21	.00160	97832	156	97754	5171970	52.87	21	.00052	98632	52	98606	5908716	59.91
22	.00167	97676	163	97594	5074216	51.95	22	.00053	98580	52	98554	5810111	58.94
23	.00172	97513	168	97429	4976622	51.04	23	.00054	98528	53	98501	5711557	57.97
24	.00176	97345	172	97259	4879193	50.12	24	.00055	98475	54	98448	5613055	57.00
25	.00180	97173	175	97086	4781934	49.21	25	.00055	98421	55	98394	5514607	56.03
26	.00182	96998	177	96910	4684848	48.30	26	.00056	98367	55	98339	5416213	55.06
27	.00182	96821	176	96733	4587938	47.39	27	.00057	98312	56	98284	5317874	54.09
28	.00178	96645	172	96559	4491205	46.47	28	.00057	98256	56	98228	5219590	53.12
29	.00171	96474	165	96391	4394645	45.55	29	.00057	98200	56	98172	5121363	52.15
30	.00163	96309	157	96230	4298254	44.63	30	.00058	98144	57	98115	5023191	51.18
31	.00157	96152	151	96076	4202024	43.70	31	.00059	98087	58	98058	4925076	50.21
32	.00154	96000	148	95926	4105948	42.77	32	.00061	98029	59	98000	4827018	49.24
33	.00156	95852	149	95778	4010022	41.84	33	.00063	97970	62	97939	4729018	48.27
34	.00161	95703	154	95626	3914244	40.90	34	.00066	97908	65	97876	4631079	47.30
35	.00168	95549	161	95469	3818618	39.96	35	.00071	97843	69	97808	4533204	46.33
36	.00177	95388	169	95304	3723149	39.03	36	.00076	97774	75	97736	4435395	45.36
37	.00187	95220	178	95131	3627845	38.10	37	.00083	97699	81	97658	4337659	44.40
38	.00199	95042	189	94947	3532715	37.17	38	.00092	97618	90	97573	4240001	43.43
39	.00212	94853	201	94753	3437768	36.24	39	.00103	97528	100	97478	4142428	42.47

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

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)
40	.00228	94652	216	94544	3343015	35.32	40	.00115	97428	112	97371	4044950	41.52
41	.00247	94437	234	94320	3248471	34.40	41	.00129	97315	125	97253	3947579	40.56
42	.00271	94203	256	94075	3154151	33.48	42	.00145	97190	140	97120	3850326	39.62
43	.00300	93947	282	93806	3060076	32.57	43	.00162	97050	157	96971	3753206	38.67
44	.00333	93666	312	93509	2966269	31.67	44	.00181	96893	175	96805	3656235	37.73
45	.00370	93353	346	93180	2872760	30.77	45	.00202	96717	195	96620	3559430	36.80
46	.00411	93007	382	92816	2779580	29.89	46	.00225	96522	217	96414	3462810	35.88
47	.00458	92625	424	92413	2686763	29.01	47	.00251	96305	241	96184	3366397	34.96
48	.00511	92201	471	91966	2594350	28.14	48	.00279	96064	268	95930	3270212	34.04
49	.00569	91730	522	91469	2502385	27.28	49	.00310	95796	297	95648	3174283	33.14
50	.00635	91208	579	90919	2410915	26.43	50	.00344	95499	328	95335	3078635	32.24
51	.00704	90629	638	90310	2319996	25.60	51	.00381	95171	362	94990	2983300	31.35
52	.00772	89991	694	89644	2229686	24.78	52	.00418	94809	396	94610	2888310	30.46
53	.00835	89296	746	88924	2140043	23.97	53	.00456	94412	430	94197	2793700	29.59
54	.00898	88551	795	88154	2051119	23.16	54	.00494	93982	465	93750	2699503	28.72
55	.00968	87756	850	87331	1962966	22.37	55	.00536	93517	501	93267	2605753	27.86
56	.01050	86907	913	86450	1875634	21.58	56	.00583	93016	542	92745	2512486	27.01
57	.01140	85994	980	85504	1789184	20.81	57	.00638	92474	590	92179	2419741	26.17
58	.01239	85014	1053	84487	1703680	20.04	58	.00702	91884	645	91562	2327562	25.33
59	.01349	83961	1132	83395	1619193	19.29	59	.00774	91240	706	90887	2236000	24.51
60	.01466	82828	1214	82221	1535799	18.54	60	.00852	90534	771	90148	2145113	23.69
61	.01601	81614	1306	80961	1453578	17.81	61	.00935	89763	839	89343	2054965	22.89
62	.01768	80308	1420	79598	1372617	17.09	62	.01022	88924	909	88469	1965622	22.10
63	.01976	78888	1559	78109	1293019	16.39	63	.01115	88014	981	87524	1877153	21.33
64	.02216	77329	1713	76473	1214910	15.71	64	.01213	87033	1056	86505	1789629	20.56
65	.02484	75616	1878	74677	1138437	15.06	65	.01322	85977	1137	85409	1703124	19.81
66	.02761	73738	2036	72720	1063761	14.43	66	.01439	84840	1221	84230	1617715	19.07
67	.03026	71701	2170	70616	991041	13.82	67	.01554	83619	1299	82970	1533486	18.34
68	.03268	69531	2272	68395	920425	13.24	68	.01661	82320	1368	81636	1450516	17.62
69	.03502	67259	2355	66081	852029	12.67	69	.01770	80953	1433	80236	1368879	16.91
70	.03743	64904	2429	63689	785948	12.11	70	.01890	79520	1503	78769	1288643	16.21
71	.04020	62475	2511	61219	722259	11.56	71	.02032	78017	1585	77225	1209874	15.51
72	.04352	59963	2610	58659	661040	11.02	72	.02198	76432	1680	75592	1132650	14.82
73	.04754	57354	2727	55990	602381	10.50	73	.02393	74752	1789	73857	1057058	14.14
74	.05213	54627	2848	53203	546391	10.00	74	.02618	72963	1910	72008	983200	13.48
75	.05720	51779	2962	50298	493188	9.52	75	.02881	71053	2047	70029	911193	12.82
76	.06242	48817	3047	47294	442889	9.07	76	.03174	69005	2190	67910	841164	12.19
77	.06747	45770	3088	44226	395595	8.64	77	.03477	66815	2323	65654	773254	11.57
78	.07219	42682	3081	41142	351369	8.23	78	.03785	64492	2441	63272	707600	10.97
79	.07681	39601	3042	38080	310228	7.83	79	.04115	62052	2553	60775	644328	10.38

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

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)
80	.08164	36559	2985	35067	272148	7.44	80	.04485	59498	2669	58164	583553	9.81
81	.08713	33575	2925	32112	237081	7.06	81	.04924	56830	2798	55430	525389	9.24
82	.09358	30649	2868	29215	204969	6.69	82	.05449	54031	2944	52559	469958	8.70
83	.10123	27781	2812	26375	175754	6.33	83	.06075	51087	3103	49536	417399	8.17
84	.10986	24969	2743	23597	149379	5.98	84	.06795	47984	3260	46354	367863	7.67
85	.11911	22226	2647	20902	125782	5.66	85	.07593	44724	3396	43026	321510	7.19
86	.12869	19578	2519	18318	104880	5.36	86	.08456	41328	3495	39581	278484	6.74
87	.13842	17059	2361	15878	86562	5.07	87	.09379	37833	3548	36059	238903	6.31
88	.14827	14697	2179	13608	70683	4.81	88	.10362	34285	3553	32508	202844	5.92
89	.15836	12518	1982	11527	57076	4.56	89	.11412	30732	3507	28978	170336	5.54
90	.16881	10536	1779	9647	45549	4.32	90	.12537	27225	3413	25518	141358	5.19
91	.17976	8757	1574	7970	35902	4.10	91	.13746	23812	3273	22175	115839	4.86
92	.19138	7183	1375	6496	27932	3.89	92	.15047	20538	3090	18993	93665	4.56
93	.20378	5808	1184	5217	21436	3.69	93	.16447	17448	2870	16013	74671	4.28
94	.21709	4625	1004	4123	16220	3.51	94	.17952	14578	2617	13270	58658	4.02
95	.23017	3621	833	3204	12097	3.34	95	.19445	11961	2326	10798	45388	3.79
96	.24287	2787	677	2449	8893	3.19	96	.20902	9635	2014	8628	34590	3.59
97	.25505	2110	538	1841	6444	3.05	97	.22294	7621	1699	6772	25962	3.41
98	.26654	1572	419	1363	4603	2.93	98	.23594	5922	1397	5224	19190	3.24
99	.27720	1153	320	993	3240	2.81	99	.24773	4525	1121	3964	13966	3.09
100	.28829	833	240	713	2247	2.70	100	.26012	3404	885	2961	10002	2.94
101	.29982	593	178	504	1534	2.59	101	.27313	2519	688	2175	7040	2.80
102	.31181	415	130	351	1029	2.48	102	.28678	1831	525	1568	4866	2.66
103	.32429	286	93	239	679	2.37	103	.30112	1306	393	1109	3298	2.53
104	.33726	193	65	161	439	2.27	104	.31618	913	289	768	2189	2.40
105	.35075	128	45	106	279	2.18	105	.33199	624	207	520	1420	2.28
106	.36478	83	30	68	173	2.08	106	.34859	417	145	344	900	2.16
107	.37937	53	20	43	105	1.99	107	.36601	272	99	222	556	2.05
108	.39454	33	13	26	62	1.90	108	.38432	172	66	139	334	1.94
109	.41033	20	8	16	36	1.82	109	.40353	106	43	85	195	1.84
110	.42674	12	5	9	20	1.74	110	.42371	63	27	50	110	1.74
111	.44381	7	3	5	11	1.66	111	.44381	36	16	28	60	1.66
112	.46156	4	2	3	6	1.58	112	.46156	20	9	16	32	1.58
113	.48002	2	1	2	3	1.51	113	.48002	11	5	8	16	1.51
114	.49923	1	1	1	1	1.43	114	.49923	6	3	4	8	1.43
115	.51919	1	0	0	1	1.36	115	.51919	3	1	2	4	1.36
116	.53996	0	0	0	0	1.30	116	.53996	1	1	1	2	1.30
117	.56156	0	0	0	0	1.23	117	.56156	1	0	0	1	1.23
118	.58402	0	0	0	0	1.17	118	.58402	0	0	0	0	1.17
119	.60738	0	0	0	0	1.11	119	.60738	0	0	0	0	1.11

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)
0	.00844	100000	844	99261	7365445	73.65	0	.00664	100000	664	99418	8111423	81.11
1	.00069	99156	68	99122	7266184	73.28	1	.00053	99336	52	99310	8012004	80.66
2	.00046	99088	46	99065	7167062	72.33	2	.00034	99284	34	99267	7912695	79.70
3	.00038	99042	38	99023	7067998	71.36	3	.00026	99250	25	99237	7813428	78.73
4	.00030	99004	30	98989	6968975	70.39	4	.00019	99224	19	99215	7714191	77.75
5	.00026	98974	26	98961	6869986	69.41	5	.00017	99205	17	99197	7614977	76.76
6	.00024	98948	24	98936	6771025	68.43	6	.00015	99188	15	99181	7515780	75.77
7	.00022	98924	21	98914	6672089	67.45	7	.00014	99173	14	99166	7416599	74.78
8	.00019	98903	19	98894	6573175	66.46	8	.00013	99159	13	99152	7317434	73.80
9	.00015	98884	15	98877	6474282	65.47	9	.00011	99146	11	99141	7218281	72.80
10	.00013	98869	12	98863	6375405	64.48	10	.00010	99135	10	99130	7119141	71.81
11	.00013	98857	13	98850	6276542	63.49	11	.00009	99126	9	99121	7020010	70.82
12	.00019	98844	19	98834	6177692	62.50	12	.00012	99116	12	99111	6920889	69.83
13	.00033	98825	33	98808	6078857	61.51	13	.00017	99105	17	99096	6821779	68.83
14	.00053	98792	52	98766	5980049	60.53	14	.00024	99088	24	99076	6722682	67.85
15	.00074	98740	73	98703	5881283	59.56	15	.00033	99064	33	99047	6623606	66.86
16	.00094	98667	93	98620	5782580	58.61	16	.00041	99031	40	99011	6524559	65.88
17	.00112	98574	110	98519	5683959	57.66	17	.00047	98991	46	98968	6425548	64.91
18	.00124	98463	122	98402	5585441	56.73	18	.00050	98945	49	98920	6326580	63.94
19	.00133	98341	131	98276	5487039	55.80	19	.00050	98896	50	98871	6227660	62.97
20	.00140	98211	138	98142	5388763	54.87	20	.00050	98846	50	98821	6128789	62.00
21	.00148	98073	145	98001	5290621	53.95	21	.00051	98797	50	98772	6029968	61.03
22	.00155	97928	151	97852	5192620	53.02	22	.00051	98747	50	98721	5931196	60.06
23	.00162	97777	158	97698	5094768	52.11	23	.00051	98696	51	98671	5832475	59.10
24	.00168	97619	164	97537	4997070	51.19	24	.00051	98646	51	98620	5733804	58.13
25	.00174	97455	170	97370	4899534	50.27	25	.00051	98595	51	98570	5635184	57.15
26	.00179	97285	174	97198	4802164	49.36	26	.00051	98544	51	98519	5536614	56.18
27	.00179	97111	174	97024	4704966	48.45	27	.00051	98493	50	98468	5438095	55.21
28	.00173	96937	168	96853	4607942	47.54	28	.00051	98443	50	98418	5339627	54.24
29	.00164	96769	158	96689	4511090	46.62	29	.00050	98393	49	98369	5241209	53.27
30	.00153	96610	147	96537	4414400	45.69	30	.00050	98344	49	98320	5142840	52.29
31	.00143	96463	138	96394	4317864	44.76	31	.00050	98295	49	98271	5044521	51.32
32	.00138	96325	133	96258	4221470	43.83	32	.00051	98246	50	98221	4946250	50.35
33	.00137	96192	132	96126	4125212	42.89	33	.00052	98196	51	98170	4848029	49.37
34	.00141	96060	135	95993	4029086	41.94	34	.00055	98145	54	98118	4749859	48.40
35	.00147	95925	141	95855	3933093	41.00	35	.00058	98091	57	98063	4651741	47.42
36	.00154	95784	147	95711	3837238	40.06	36	.00062	98034	61	98004	4553678	46.45
37	.00162	95637	155	95560	3741528	39.12	37	.00068	97973	66	97940	4455674	45.48
38	.00170	95483	163	95401	3645968	38.18	38	.00075	97907	74	97870	4357734	44.51
39	.00181	95320	172	95234	3550566	37.25	39	.00085	97833	83	97792	4259864	43.54

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

Male

x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}_x$
40	.00193	95148	184	95056	3455333	36.32
41	.00210	94964	199	94865	3360277	35.38
42	.00230	94765	218	94656	3265412	34.46
43	.00256	94547	242	94426	3170756	33.54
44	.00286	94305	270	94170	3076330	32.62
45	.00319	94036	300	93886	2982160	31.71
46	.00356	93736	333	93569	2888274	30.81
47	.00398	93402	372	93216	2794705	29.92
48	.00448	93030	417	92822	2701489	29.04
49	.00504	92613	467	92380	2608667	28.17
50	.00567	92146	523	91885	2516288	27.31
51	.00633	91623	580	91333	2424403	26.46
52	.00694	91043	632	90727	2333070	25.63
53	.00747	90411	675	90073	2242343	24.80
54	.00797	89736	715	89378	2152269	23.98
55	.00853	89021	759	88641	2062891	23.17
56	.00921	88262	813	87855	1974250	22.37
57	.00999	87449	873	87012	1886395	21.57
58	.01088	86575	942	86104	1799383	20.78
59	.01190	85634	1019	85124	1713279	20.01
60	.01299	84615	1099	84065	1628154	19.24
61	.01425	83516	1190	82921	1544089	18.49
62	.01583	82326	1304	81674	1461168	17.75
63	.01783	81022	1445	80300	1379494	17.03
64	.02015	79578	1603	78776	1299194	16.33
65	.02275	77974	1774	77088	1220418	15.65
66	.02542	76201	1937	75232	1143330	15.00
67	.02796	74264	2077	73225	1068098	14.38
68	.03026	72187	2185	71095	994872	13.78
69	.03246	70003	2272	68866	923778	13.20
70	.03473	67730	2352	66554	854911	12.62
71	.03734	65378	2441	64158	788357	12.06
72	.04047	62937	2547	61664	724199	11.51
73	.04427	60390	2673	59054	662536	10.97
74	.04860	57717	2805	56315	603482	10.46
75	.05338	54912	2931	53447	547167	9.96
76	.05829	51981	3030	50466	493721	9.50
77	.06306	48951	3087	47408	443254	9.06
78	.06751	45864	3096	44316	395847	8.63
79	.07189	42768	3074	41231	351531	8.22

Female

x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}_x$
40	.00095	97751	93	97704	4162072	42.58
41	.00108	97658	105	97605	4064368	41.62
42	.00121	97552	118	97493	3966763	40.66
43	.00136	97434	132	97368	3869269	39.71
44	.00152	97302	148	97228	3771901	38.76
45	.00170	97154	165	97071	3674674	37.82
46	.00190	96989	184	96897	3577602	36.89
47	.00213	96804	207	96701	3480706	35.96
48	.00241	96598	232	96482	3384005	35.03
49	.00271	96365	261	96235	3287523	34.12
50	.00305	96105	293	95958	3191288	33.21
51	.00342	95811	327	95648	3095330	32.31
52	.00378	95484	361	95303	2999683	31.42
53	.00412	95123	392	94927	2904379	30.53
54	.00446	94732	423	94520	2809452	29.66
55	.00483	94309	455	94082	2714932	28.79
56	.00525	93854	493	93608	2620850	27.92
57	.00577	93361	539	93092	2527243	27.07
58	.00640	92822	594	92525	2434151	26.22
59	.00714	92228	658	91899	2341626	25.39
60	.00792	91570	726	91207	2249727	24.57
61	.00874	90844	794	90447	2158520	23.76
62	.00962	90050	866	89617	2068073	22.97
63	.01055	89183	941	88713	1978456	22.18
64	.01152	88243	1016	87735	1889743	21.42
65	.01259	87226	1099	86677	1802008	20.66
66	.01372	86128	1182	85537	1715331	19.92
67	.01478	84946	1256	84318	1629795	19.19
68	.01573	83690	1316	83032	1545476	18.47
69	.01664	82374	1371	81689	1462444	17.75
70	.01764	81004	1429	80289	1380755	17.05
71	.01883	79575	1498	78825	1300466	16.34
72	.02021	78076	1578	77287	1221641	15.65
73	.02183	76498	1670	75663	1144353	14.96
74	.02369	74828	1772	73942	1068690	14.28
75	.02588	73056	1891	72111	994748	13.62
76	.02834	71165	2017	70157	922637	12.96
77	.03091	69148	2137	68080	852481	12.33
78	.03355	67011	2248	65887	784401	11.71
79	.03640	64763	2358	63584	718513	11.09

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

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$\overset{o}{e}$(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\overset{o}{e}$(x)
80	.07644	39694	3034	38176	310300	7.82	80	.03966	62406	2475	61168	654929	10.49
81	.08160	36659	2992	35164	272123	7.42	81	.04353	59931	2609	58627	593761	9.91
82	.08767	33668	2952	32192	236960	7.04	82	.04815	57322	2760	55942	535134	9.34
83	.09485	30716	2914	29259	204768	6.67	83	.05363	54562	2926	53099	479192	8.78
84	.10295	27803	2862	26372	175508	6.31	84	.05994	51636	3095	50089	426093	8.25
85	.11162	24940	2784	23549	149137	5.98	85	.06699	48541	3252	46916	376004	7.75
86	.12057	22157	2671	20821	125588	5.67	86	.07472	45290	3384	43598	329088	7.27
87	.12964	19485	2526	18222	104767	5.38	87	.08310	41906	3482	40164	285491	6.81
88	.13882	16959	2354	15782	86545	5.10	88	.09215	38423	3541	36653	245326	6.38
89	.14819	14605	2164	13523	70763	4.85	89	.10193	34882	3555	33105	208674	5.98
90	.15787	12441	1964	11459	57240	4.60	90	.11250	31327	3524	29565	175569	5.60
91	.16801	10477	1760	9597	45782	4.37	91	.12393	27803	3446	26080	146004	5.25
92	.17876	8716	1558	7937	36185	4.15	92	.13630	24357	3320	22697	119925	4.92
93	.19023	7158	1362	6477	28248	3.95	93	.14965	21037	3148	19463	97228	4.62
94	.20254	5797	1174	5210	21770	3.76	94	.16402	17889	2934	16422	77765	4.35
95	.21465	4623	992	4126	16561	3.58	95	.17827	14955	2666	13622	61343	4.10
96	.22642	3630	822	3219	12434	3.43	96	.19211	12289	2361	11108	47721	3.88
97	.23772	2808	668	2475	9215	3.28	97	.20525	9928	2038	8909	36613	3.69
98	.24841	2141	532	1875	6741	3.15	98	.21741	7890	1715	7033	27703	3.51
99	.25834	1609	416	1401	4866	3.02	99	.22828	6175	1410	5470	20671	3.35
100	.26867	1193	321	1033	3465	2.90	100	.23969	4765	1142	4194	15201	3.19
101	.27942	873	244	751	2432	2.79	101	.25168	3623	912	3167	11007	3.04
102	.29060	629	183	537	1681	2.67	102	.26426	2711	716	2353	7840	2.89
103	.30222	446	135	379	1143	2.56	103	.27747	1995	553	1718	5487	2.75
104	.31431	311	98	262	765	2.46	104	.29135	1441	420	1231	3769	2.61
105	.32688	213	70	179	502	2.35	105	.30591	1021	312	865	2537	2.48
106	.33996	144	49	119	324	2.25	106	.32121	709	228	595	1672	2.36
107	.35356	95	34	78	205	2.16	107	.33727	481	162	400	1077	2.24
108	.36770	61	23	50	127	2.06	108	.35413	319	113	262	677	2.12
109	.38241	39	15	31	77	1.97	109	.37184	206	77	168	415	2.01
110	.39770	24	10	19	45	1.89	110	.39043	129	51	104	247	1.91
111	.41361	14	6	11	26	1.80	111	.40995	79	32	63	143	1.81
112	.43016	8	4	7	15	1.72	112	.43016	47	20	37	80	1.72
113	.44736	5	2	4	8	1.64	113	.44736	27	12	21	44	1.64
114	.46526	3	1	2	4	1.56	114	.46526	15	7	11	23	1.56
115	.48387	1	1	1	2	1.49	115	.48387	8	4	6	12	1.49
116	.50322	1	0	1	1	1.42	116	.50322	4	2	3	6	1.42
117	.52335	0	0	0	0	1.35	117	.52335	2	1	1	3	1.35
118	.54429	0	0	0	0	1.28	118	.54429	1	1	1	1	1.28
119	.56606	0	0	0	0	1.22	119	.56606	0	0	0	1	1.22

Table 3l. Calendar Year 2010 United States Life Tables, by Sex

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}_x$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}_x$
0	.00794	100000	794	99305	7419491	74.19	0	.00622	100000	622	99455	8169702	81.70
1	.00066	99206	65	99173	7320186	73.79	1	.00050	99378	50	99353	8070247	81.21
2	.00045	99141	44	99119	7221013	72.84	2	.00033	99328	33	99312	7970894	80.25
3	.00037	99097	37	99078	7121894	71.87	3	.00025	99296	24	99283	7871582	79.27
4	.00029	99060	29	99046	7022816	70.89	4	.00018	99271	18	99262	7772298	78.29
5	.00025	99031	25	99019	6923771	69.91	5	.00016	99253	16	99245	7673036	77.31
6	.00023	99006	23	98995	6824752	68.93	6	.00015	99237	15	99229	7573791	76.32
7	.00021	98984	21	98973	6725757	67.95	7	.00014	99222	14	99215	7474562	75.33
8	.00018	98963	18	98954	6626784	66.96	8	.00012	99208	12	99202	7375347	74.34
9	.00015	98945	15	98937	6527830	65.97	9	.00011	99196	11	99191	7276145	73.35
10	.00012	98930	12	98924	6428893	64.98	10	.00009	99185	9	99181	7176954	72.36
11	.00013	98918	12	98912	6329969	63.99	11	.00009	99176	9	99172	7077773	71.37
12	.00019	98905	18	98896	6231058	63.00	12	.00011	99167	11	99162	6978602	70.37
13	.00032	98887	32	98871	6132162	62.01	13	.00016	99156	16	99148	6879440	69.38
14	.00051	98855	50	98830	6033291	61.03	14	.00024	99140	23	99128	6780292	68.39
15	.00072	98804	71	98769	5934461	60.06	15	.00032	99117	32	99101	6681163	67.41
16	.00092	98733	91	98688	5835692	59.11	16	.00040	99085	39	99065	6582063	66.43
17	.00109	98642	108	98588	5737005	58.16	17	.00046	99045	45	99023	6482998	65.45
18	.00121	98535	119	98475	5638416	57.22	18	.00048	99000	48	98976	6383975	64.48
19	.00129	98415	127	98352	5539941	56.29	19	.00049	98953	48	98928	6284999	63.52
20	.00136	98288	134	98221	5441590	55.36	20	.00049	98904	49	98880	6186070	62.55
21	.00143	98154	141	98084	5343368	54.44	21	.00050	98855	49	98831	6087191	61.58
22	.00150	98013	147	97940	5245284	53.52	22	.00050	98806	49	98782	5988360	60.61
23	.00157	97866	154	97789	5147345	52.60	23	.00050	98757	49	98733	5889578	59.64
24	.00164	97712	160	97632	5049556	51.68	24	.00050	98708	49	98683	5790845	58.67
25	.00171	97552	166	97469	4951924	50.76	25	.00050	98659	49	98634	5692162	57.70
26	.00176	97385	171	97300	4854455	49.85	26	.00050	98609	49	98585	5593528	56.72
27	.00176	97214	171	97129	4757155	48.93	27	.00050	98560	49	98536	5494944	55.75
28	.00170	97044	165	96961	4660026	48.02	28	.00049	98511	48	98487	5396408	54.78
29	.00160	96879	155	96801	4563065	47.10	29	.00048	98463	48	98439	5297921	53.81
30	.00149	96723	144	96652	4466264	46.18	30	.00048	98415	47	98392	5199482	52.83
31	.00139	96580	135	96512	4369613	45.24	31	.00048	98368	47	98344	5101090	51.86
32	.00133	96445	128	96381	4273100	44.31	32	.00049	98321	48	98297	5002746	50.88
33	.00132	96317	128	96253	4176720	43.36	33	.00050	98273	49	98248	4904450	49.91
34	.00136	96189	131	96124	4080467	42.42	34	.00053	98223	52	98197	4806202	48.93
35	.00142	96058	136	95990	3984343	41.48	35	.00056	98171	55	98144	4708005	47.96
36	.00148	95922	142	95851	3888353	40.54	36	.00060	98117	58	98088	4609860	46.98
37	.00156	95780	149	95705	3792502	39.60	37	.00065	98058	64	98026	4511773	46.01
38	.00164	95630	157	95552	3696797	38.66	38	.00072	97995	71	97959	4413746	45.04
39	.00174	95473	166	95391	3601245	37.72	39	.00081	97924	79	97884	4315787	44.07

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

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}_x$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}_x$
40	.00185	95308	177	95219	3505855	36.78	40	.00091	97844	89	97800	4217903	43.11
41	.00201	95131	191	95035	3410635	35.85	41	.00103	97755	101	97705	4120104	42.15
42	.00221	94940	210	94835	3315600	34.92	42	.00116	97654	113	97597	4022399	41.19
43	.00245	94730	232	94614	3220765	34.00	43	.00130	97541	127	97477	3924802	40.24
44	.00274	94498	259	94368	3126151	33.08	44	.00146	97414	142	97343	3827324	39.29
45	.00306	94239	288	94095	3031783	32.17	45	.00162	97272	158	97193	3729981	38.35
46	.00341	93951	320	93790	2937688	31.27	46	.00181	97114	176	97026	3632788	37.41
47	.00382	93630	358	93451	2843897	30.37	47	.00204	96938	198	96839	3535762	36.47
48	.00430	93272	401	93072	2750446	29.49	48	.00230	96740	223	96629	3438923	35.55
49	.00484	92871	449	92646	2657374	28.61	49	.00259	96518	250	96393	3342294	34.63
50	.00545	92421	504	92170	2564728	27.75	50	.00293	96267	282	96127	3245901	33.72
51	.00608	91918	559	91639	2472559	26.90	51	.00328	95986	315	95828	3149775	32.82
52	.00666	91359	609	91055	2380920	26.06	52	.00363	95671	347	95497	3053946	31.92
53	.00717	90750	650	90425	2289865	25.23	53	.00396	95324	377	95135	2958449	31.04
54	.00764	90100	688	89756	2199440	24.41	54	.00428	94947	407	94743	2863314	30.16
55	.00817	89412	731	89046	2109685	23.60	55	.00463	94540	438	94321	2768570	29.28
56	.00882	88681	782	88290	2020638	22.79	56	.00504	94102	474	93865	2674249	28.42
57	.00956	87899	841	87478	1932349	21.98	57	.00554	93628	519	93369	2580384	27.56
58	.01041	87058	907	86605	1844870	21.19	58	.00615	93109	573	92823	2487016	26.71
59	.01139	86151	982	85661	1758266	20.41	59	.00685	92537	634	92220	2394192	25.87
60	.01244	85170	1060	84640	1672605	19.64	60	.00761	91903	700	91553	2301973	25.05
61	.01365	84110	1148	83536	1587965	18.88	61	.00840	91203	766	90820	2210420	24.24
62	.01517	82962	1259	82333	1504429	18.13	62	.00924	90437	836	90019	2119600	23.44
63	.01709	81703	1396	81005	1422096	17.41	63	.01013	89601	908	89147	2029581	22.65
64	.01932	80307	1551	79531	1341092	16.70	64	.01106	88694	981	88203	1940433	21.88
65	.02181	78755	1718	77896	1261561	16.02	65	.01209	87712	1061	87182	1852231	21.12
66	.02438	77037	1878	76098	1183664	15.36	66	.01317	86652	1141	86081	1765048	20.37
67	.02682	75159	2016	74151	1107566	14.74	67	.01418	85511	1212	84905	1678967	19.63
68	.02903	73143	2123	72081	1033415	14.13	68	.01508	84299	1271	83663	1594062	18.91
69	.03113	71020	2211	69914	961334	13.54	69	.01594	83028	1323	82366	1510399	18.19
70	.03330	68809	2291	67663	891419	12.95	70	.01689	81704	1380	81015	1428033	17.48
71	.03580	66518	2381	65327	823756	12.38	71	.01801	80325	1447	79601	1347018	16.77
72	.03879	64137	2488	62892	758429	11.83	72	.01931	78878	1523	78116	1267417	16.07
73	.04243	61648	2616	60341	695537	11.28	73	.02083	77355	1611	76549	1189300	15.37
74	.04658	59033	2749	57658	635196	10.76	74	.02257	75744	1709	74889	1112751	14.69
75	.05115	56283	2879	54844	577538	10.26	75	.02462	74035	1823	73123	1037862	14.02
76	.05585	53404	2983	51913	522694	9.79	76	.02692	72212	1944	71240	964739	13.36
77	.06042	50421	3046	48898	470781	9.34	77	.02933	70268	2061	69237	893499	12.72
78	.06468	47375	3064	45843	421883	8.91	78	.03181	68207	2169	67122	824262	12.08
79	.06887	44311	3052	42785	376040	8.49	79	.03449	66037	2278	64898	757140	11.47

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

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}_x$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}_x$
80	.07323	41259	3021	39748	333255	8.08	80	.03754	63760	2394	62563	692242	10.86
81	.07816	38238	2989	36743	293507	7.68	81	.04118	61366	2527	60102	629679	10.26
82	.08396	35249	2959	33769	256763	7.28	82	.04552	58839	2678	57499	569577	9.68
83	.09082	32290	2932	30823	222994	6.91	83	.05067	56160	2846	54737	512078	9.12
84	.09854	29357	2893	27911	192171	6.55	84	.05661	53314	3018	51805	457340	8.58
85	.10681	26464	2827	25051	164260	6.21	85	.06325	50296	3181	48706	405535	8.06
86	.11534	23638	2726	22274	139209	5.89	86	.07053	47115	3323	45453	356830	7.57
87	.12398	20911	2593	19615	116935	5.59	87	.07842	43792	3434	42075	311376	7.11
88	.13271	18319	2431	17103	97320	5.31	88	.08693	40358	3508	38604	269301	6.67
89	.14160	15888	2250	14763	80217	5.05	89	.09614	36849	3543	35078	230698	6.26
90	.15079	13638	2056	12610	65454	4.80	90	.10609	33307	3534	31540	195620	5.87
91	.16041	11581	1858	10652	52845	4.56	91	.11687	29773	3480	28033	164080	5.51
92	.17060	9723	1659	8894	42192	4.34	92	.12853	26294	3379	24604	136046	5.17
93	.18148	8065	1464	7333	33298	4.13	93	.14112	22914	3234	21297	111442	4.86
94	.19316	6601	1275	5964	25965	3.93	94	.15470	19681	3045	18158	90145	4.58
95	.20465	5326	1090	4781	20002	3.76	95	.16816	16636	2798	15237	71987	4.33
96	.21583	4236	914	3779	15221	3.59	96	.18123	13838	2508	12584	56749	4.10
97	.22657	3322	753	2945	11442	3.44	97	.19365	11330	2194	10233	44165	3.90
98	.23673	2569	608	2265	8496	3.31	98	.20512	9136	1874	8199	33932	3.71
99	.24620	1961	483	1720	6231	3.18	99	.21538	7262	1564	6480	25732	3.54
100	.25605	1478	378	1289	4512	3.05	100	.22614	5698	1289	5054	19252	3.38
101	.26629	1100	293	953	3223	2.93	101	.23745	4410	1047	3886	14198	3.22
102	.27694	807	223	695	2269	2.81	102	.24932	3363	838	2943	10312	3.07
103	.28802	583	168	499	1574	2.70	103	.26179	2524	661	2194	7369	2.92
104	.29954	415	124	353	1075	2.59	104	.27488	1863	512	1607	5175	2.78
105	.31152	291	91	246	722	2.48	105	.28862	1351	390	1156	3568	2.64
106	.32398	200	65	168	476	2.38	106	.30306	961	291	816	2412	2.51
107	.33695	135	46	113	308	2.28	107	.31821	670	213	563	1596	2.38
108	.35042	90	31	74	196	2.18	108	.33412	457	153	380	1033	2.26
109	.36444	58	21	48	122	2.09	109	.35083	304	107	251	652	2.14
110	.37902	37	14	30	74	1.99	110	.36837	197	73	161	402	2.03
111	.39418	23	9	18	44	1.91	111	.38678	125	48	101	240	1.93
112	.40994	14	6	11	25	1.82	112	.40612	76	31	61	140	1.83
113	.42634	8	4	6	14	1.74	113	.42634	45	19	36	79	1.74
114	.44340	5	2	4	8	1.66	114	.44340	26	12	20	43	1.66
115	.46113	3	1	2	4	1.58	115	.46113	15	7	11	23	1.58
116	.47958	1	1	1	2	1.51	116	.47958	8	4	6	12	1.51
117	.49876	1	0	1	1	1.44	117	.49876	4	2	3	6	1.44
118	.51871	0	0	0	1	1.37	118	.51871	2	1	2	3	1.37
119	.53946	0	0	0	0	1.30	119	.53946	1	1	1	1	1.30

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	.00748	100000	748	99345	7470149	74.70	0	.00584	100000	584	99488	8225229	82.25
1	.00064	99252	63	99220	7370804	74.26	1	.00049	99416	48	99392	8125741	81.73
2	.00043	99188	43	99167	7271585	73.31	2	.00032	99368	31	99352	8026349	80.77
3	.00036	99146	35	99128	7172418	72.34	3	.00024	99336	23	99325	7926997	79.80
4	.00028	99110	28	99096	7073290	71.37	4	.00018	99313	18	99304	7827672	78.82
5	.00024	99083	24	99070	6974193	70.39	5	.00016	99295	16	99288	7728368	77.83
6	.00022	99058	22	99047	6875123	69.40	6	.00014	99280	14	99273	7629080	76.84
7	.00021	99036	20	99026	6776076	68.42	7	.00013	99265	13	99259	7529807	75.86
8	.00018	99016	18	99007	6677050	67.43	8	.00012	99252	12	99246	7430549	74.87
9	.00015	98998	14	98991	6578043	66.45	9	.00010	99240	10	99235	7331303	73.87
10	.00012	98983	12	98978	6479052	65.46	10	.00009	99230	9	99226	7232068	72.88
11	.00012	98972	12	98966	6380075	64.46	11	.00009	99221	9	99217	7132842	71.89
12	.00018	98960	18	98951	6281109	63.47	12	.00011	99212	11	99207	7033625	70.89
13	.00031	98942	31	98926	6182158	62.48	13	.00016	99202	16	99194	6934418	69.90
14	.00050	98911	49	98886	6083232	61.50	14	.00023	99186	23	99174	6835224	68.91
15	.00070	98862	70	98827	5984346	60.53	15	.00031	99163	31	99147	6736050	67.93
16	.00090	98792	89	98747	5885519	59.57	16	.00039	99132	38	99113	6636903	66.95
17	.00107	98703	105	98650	5786772	58.63	17	.00045	99093	44	99071	6537790	65.98
18	.00118	98598	117	98539	5688122	57.69	18	.00047	99049	47	99026	6438719	65.01
19	.00126	98481	125	98419	5589582	56.76	19	.00048	99002	47	98979	6339693	64.04
20	.00133	98356	131	98291	5491164	55.83	20	.00048	98955	47	98931	6240715	63.07
21	.00140	98225	138	98156	5392873	54.90	21	.00049	98907	48	98883	6141784	62.10
22	.00147	98087	144	98015	5294717	53.98	22	.00049	98859	48	98835	6042900	61.13
23	.00154	97943	151	97868	5196702	53.06	23	.00049	98811	48	98787	5944065	60.16
24	.00160	97792	157	97714	5098834	52.14	24	.00049	98763	48	98739	5845278	59.18
25	.00167	97636	163	97554	5001120	51.22	25	.00049	98715	48	98691	5746539	58.21
26	.00172	97473	167	97389	4903566	50.31	26	.00049	98667	48	98642	5647848	57.24
27	.00172	97305	167	97222	4806177	49.39	27	.00048	98618	48	98595	5549206	56.27
28	.00166	97138	162	97057	4708955	48.48	28	.00048	98571	47	98547	5450611	55.30
29	.00157	96976	152	96901	4611898	47.56	29	.00047	98524	46	98501	5352064	54.32
30	.00145	96825	141	96754	4514998	46.63	30	.00047	98478	46	98455	5253563	53.35
31	.00136	96684	132	96618	4418243	45.70	31	.00047	98432	46	98408	5155109	52.37
32	.00130	96552	126	96489	4321625	44.76	32	.00048	98385	47	98362	5056700	51.40
33	.00129	96427	125	96364	4225136	43.82	33	.00049	98339	48	98314	4958338	50.42
34	.00133	96302	128	96238	4128772	42.87	34	.00051	98290	50	98265	4860024	49.45
35	.00138	96174	133	96108	4032533	41.93	35	.00054	98240	53	98214	4761758	48.47
36	.00144	96042	139	95972	3936425	40.99	36	.00058	98187	57	98159	4663545	47.50
37	.00152	95903	145	95830	3840453	40.05	37	.00063	98131	62	98100	4565386	46.52
38	.00159	95758	153	95681	3744623	39.11	38	.00070	98069	69	98035	4467286	45.55
39	.00168	95605	161	95525	3648942	38.17	39	.00078	98000	77	97962	4369251	44.58

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	.00180	95444	171	95358	3553417	37.23	40	.00088	97924	86	97880	4271290	43.62
41	.00194	95273	185	95180	3458059	36.30	41	.00100	97837	97	97788	4173409	42.66
42	.00213	95087	203	94986	3362879	35.37	42	.00112	97740	110	97685	4075621	41.70
43	.00237	94885	225	94772	3267893	34.44	43	.00125	97630	123	97569	3977936	40.75
44	.00265	94660	250	94535	3173120	33.52	44	.00140	97508	137	97439	3880367	39.80
45	.00295	94409	279	94270	3078586	32.61	45	.00156	97371	152	97295	3782928	38.85
46	.00329	94131	310	93976	2984316	31.70	46	.00175	97219	170	97134	3685634	37.91
47	.00369	93821	346	93648	2890340	30.81	47	.00196	97049	191	96953	3588500	36.98
48	.00415	93475	388	93281	2796692	29.92	48	.00221	96858	215	96751	3491547	36.05
49	.00466	93087	434	92870	2703410	29.04	49	.00250	96644	241	96523	3394796	35.13
50	.00525	92653	486	92410	2610540	28.18	50	.00282	96402	272	96266	3298273	34.21
51	.00586	92167	540	91897	2518130	27.32	51	.00316	96130	304	95978	3202007	33.31
52	.00642	91627	588	91333	2426233	26.48	52	.00349	95827	335	95659	3106029	32.41
53	.00690	91039	628	90725	2334900	25.65	53	.00381	95492	364	95310	3010369	31.52
54	.00735	90411	665	90079	2244175	24.82	54	.00412	95128	392	94932	2915059	30.64
55	.00786	89746	705	89394	2154096	24.00	55	.00446	94736	422	94525	2820127	29.77
56	.00848	89041	755	88663	2064703	23.19	56	.00485	94314	457	94085	2725602	28.90
57	.00920	88285	812	87880	1976040	22.38	57	.00533	93857	500	93607	2631517	28.04
58	.01001	87474	876	87036	1888160	21.59	58	.00591	93357	552	93081	2537911	27.19
59	.01095	86598	949	86124	1801124	20.80	59	.00659	92805	611	92499	2444830	26.34
60	.01196	85649	1025	85137	1715001	20.02	60	.00731	92193	674	91856	2352331	25.52
61	.01312	84625	1110	84069	1629864	19.26	61	.00807	91519	739	91150	2260474	24.70
62	.01459	83514	1218	82905	1545794	18.51	62	.00888	90780	806	90378	2169325	23.90
63	.01643	82296	1352	81620	1462889	17.78	63	.00973	89975	875	89537	2078947	23.11
64	.01857	80944	1503	80192	1381269	17.06	64	.01062	89100	946	88627	1989410	22.33
65	.02097	79440	1666	78607	1301077	16.38	65	.01160	88154	1022	87642	1900784	21.56
66	.02344	77775	1823	76863	1222470	15.72	66	.01262	87131	1100	86581	1813141	20.81
67	.02578	75952	1958	74972	1145607	15.08	67	.01359	86031	1169	85447	1726560	20.07
68	.02790	73993	2064	72961	1070634	14.47	68	.01444	84862	1226	84249	1641114	19.34
69	.02992	71929	2152	70853	997673	13.87	69	.01527	83636	1277	82998	1556864	18.61
70	.03199	69777	2232	68661	926820	13.28	70	.01617	82360	1331	81694	1473867	17.90
71	.03439	67545	2323	66383	858159	12.71	71	.01723	81028	1396	80330	1392173	17.18
72	.03726	65222	2430	64007	791776	12.14	72	.01846	79632	1470	78897	1311843	16.47
73	.04074	62792	2558	61513	727769	11.59	73	.01989	78162	1555	77385	1232946	15.77
74	.04471	60234	2693	58887	666256	11.06	74	.02154	76607	1650	75782	1155561	15.08
75	.04909	57540	2825	56128	607369	10.56	75	.02347	74957	1760	74078	1079779	14.41
76	.05360	54716	2933	53249	551241	10.07	76	.02564	73198	1877	72259	1005701	13.74
77	.05796	51783	3002	50282	497992	9.62	77	.02792	71321	1991	70325	933442	13.09
78	.06205	48782	3027	47268	447710	9.18	78	.03026	69330	2098	68281	863117	12.45
79	.06606	45755	3023	44243	400442	8.75	79	.03279	67232	2204	66130	794836	11.82

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

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)
80	.07023	42732	3001	41231	356198	8.34	80	.03567	65028	2319	63868	728706	11.21
81	.07495	39731	2978	38242	314967	7.93	81	.03910	62708	2452	61482	664838	10.60
82	.08049	36753	2958	35274	276725	7.53	82	.04320	60256	2603	58955	603356	10.01
83	.08705	33794	2942	32323	241452	7.14	83	.04807	57654	2771	56268	544401	9.44
84	.09444	30852	2914	29396	209128	6.78	84	.05368	54882	2946	53409	488133	8.89
85	.10235	27939	2859	26509	179733	6.43	85	.05996	51936	3114	50379	434724	8.37
86	.11049	25079	2771	23694	153224	6.11	86	.06684	48822	3263	47190	384345	7.87
87	.11874	22308	2649	20984	129530	5.81	87	.07429	45559	3384	43866	337155	7.40
88	.12705	19659	2498	18410	108546	5.52	88	.08233	42174	3472	40438	293289	6.95
89	.13552	17162	2326	15999	90136	5.25	89	.09101	38702	3522	36941	252850	6.53
90	.14426	14836	2140	13766	74137	5.00	90	.10041	35180	3532	33414	215909	6.14
91	.15341	12696	1948	11722	60372	4.76	91	.11058	31647	3500	29898	182496	5.77
92	.16309	10748	1753	9872	48650	4.53	92	.12159	28148	3423	26437	152598	5.42
93	.17343	8995	1560	8215	38778	4.31	93	.13350	24725	3301	23075	126162	5.10
94	.18454	7435	1372	6749	30563	4.11	94	.14634	21425	3135	19857	103087	4.81
95	.19547	6063	1185	5470	23814	3.93	95	.15907	18289	2909	16835	83230	4.55
96	.20611	4878	1005	4375	18344	3.76	96	.17144	15380	2637	14062	66395	4.32
97	.21634	3873	838	3454	13969	3.61	97	.18318	12743	2334	11576	52334	4.11
98	.22603	3035	686	2692	10515	3.46	98	.19404	10409	2020	9399	40758	3.92
99	.23507	2349	552	2073	7823	3.33	99	.20374	8389	1709	7535	31359	3.74
100	.24447	1797	439	1577	5750	3.20	100	.21393	6680	1429	5965	23824	3.57
101	.25425	1357	345	1185	4173	3.07	101	.22462	5251	1179	4661	17859	3.40
102	.26442	1012	268	878	2988	2.95	102	.23585	4071	960	3591	13198	3.24
103	.27500	745	205	642	2110	2.83	103	.24764	3111	770	2726	9606	3.09
104	.28600	540	154	463	1468	2.72	104	.26003	2341	609	2036	6880	2.94
105	.29744	385	115	328	1005	2.61	105	.27303	1732	473	1496	4844	2.80
106	.30934	271	84	229	677	2.50	106	.28668	1259	361	1079	3348	2.66
107	.32171	187	60	157	448	2.40	107	.30101	898	270	763	2270	2.53
108	.33458	127	42	106	291	2.29	108	.31606	628	198	529	1507	2.40
109	.34796	84	29	70	185	2.20	109	.33187	429	143	358	978	2.28
110	.36188	55	20	45	116	2.10	110	.34846	287	100	237	620	2.16
111	.37635	35	13	29	71	2.01	111	.36588	187	68	153	383	2.05
112	.39141	22	9	18	42	1.92	112	.38418	119	46	96	230	1.94
113	.40707	13	5	11	24	1.84	113	.40339	73	29	58	135	1.84
114	.42335	8	3	6	14	1.75	114	.42335	44	18	34	76	1.75
115	.44028	5	2	4	8	1.67	115	.44028	25	11	20	42	1.67
116	.45789	3	1	2	4	1.60	116	.45789	14	6	11	22	1.60
117	.47621	1	1	1	2	1.52	117	.47621	8	4	6	12	1.52
118	.49526	1	0	1	1	1.45	118	.49526	4	2	3	6	1.45
119	.51507	0	0	0	1	1.38	119	.51507	2	1	1	3	1.38

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

Male

x	q(x)	l(x)	d(x)	L(x)	T(x)	$\overset{o}{e}$(x)
0	.00707	100000	707	99382	7520136	75.20
1	.00061	99293	61	99263	7420755	74.74
2	.00041	99232	41	99212	7321492	73.78
3	.00035	99191	34	99174	7222280	72.81
4	.00027	99157	27	99144	7123106	71.84
5	.00024	99130	23	99119	7023962	70.86
6	.00022	99107	22	99096	6924844	69.87
7	.00020	99085	20	99075	6825748	68.89
8	.00017	99065	17	99056	6726673	67.90
9	.00014	99048	14	99041	6627617	66.91
10	.00012	99034	11	99028	6528576	65.92
11	.00012	99022	12	99016	6429548	64.93
12	.00018	99010	17	99002	6330532	63.94
13	.00031	98993	30	98978	6231530	62.95
14	.00049	98963	48	98939	6132552	61.97
15	.00069	98915	68	98880	6033614	61.00
16	.00088	98846	87	98803	5934733	60.04
17	.00104	98759	103	98708	5835930	59.09
18	.00116	98656	114	98599	5737223	58.15
19	.00124	98542	122	98481	5638624	57.22
20	.00130	98420	128	98356	5540143	56.29
21	.00137	98291	135	98224	5441788	55.36
22	.00144	98156	141	98086	5343564	54.44
23	.00151	98015	148	97941	5245478	53.52
24	.00157	97868	154	97791	5147537	52.60
25	.00163	97714	160	97634	5049746	51.68
26	.00168	97554	164	97472	4952112	50.76
27	.00168	97390	164	97308	4854639	49.85
28	.00163	97227	158	97147	4757331	48.93
29	.00153	97068	149	96994	4660183	48.01
30	.00142	96920	138	96851	4563189	47.08
31	.00133	96782	129	96718	4466339	46.15
32	.00127	96653	123	96592	4369621	45.21
33	.00126	96531	122	96470	4273029	44.27
34	.00129	96409	125	96347	4176559	43.32
35	.00134	96284	130	96220	4080212	42.38
36	.00141	96155	135	96087	3983993	41.43
37	.00147	96020	142	95949	3887905	40.49
38	.00155	95878	148	95804	3791956	39.55
39	.00163	95730	156	95652	3696152	38.61

Female

x	q(x)	l(x)	d(x)	L(x)	T(x)	$\overset{o}{e}$(x)
0	.00549	100000	549	99519	8280490	82.80
1	.00047	99451	47	99427	8180972	82.26
2	.00031	99404	30	99389	8081544	81.30
3	.00023	99374	23	99363	7982155	80.32
4	.00017	99351	17	99343	7882793	79.34
5	.00015	99334	15	99327	7783450	78.36
6	.00014	99319	14	99312	7684124	77.37
7	.00013	99305	13	99298	7584812	76.38
8	.00012	99292	12	99286	7485513	75.39
9	.00010	99280	10	99275	7386227	74.40
10	.00009	99270	9	99266	7286952	73.41
11	.00008	99261	8	99257	7187687	72.41
12	.00011	99253	10	99248	7088430	71.42
13	.00015	99243	15	99235	6989182	70.43
14	.00022	99227	22	99216	6889947	69.44
15	.00031	99205	30	99190	6790731	68.45
16	.00038	99175	38	99156	6691541	67.47
17	.00043	99137	43	99115	6592385	66.50
18	.00046	99094	46	99071	6493270	65.53
19	.00047	99048	46	99025	6394199	64.56
20	.00047	99002	46	98979	6295174	63.59
21	.00047	98956	47	98932	6196195	62.62
22	.00048	98909	47	98885	6097263	61.65
23	.00048	98862	47	98838	5998378	60.67
24	.00048	98815	47	98791	5899540	59.70
25	.00048	98768	47	98744	5800748	58.73
26	.00048	98720	47	98697	5702005	57.76
27	.00047	98674	46	98650	5603308	56.79
28	.00047	98627	46	98604	5504657	55.81
29	.00046	98581	45	98559	5406053	54.84
30	.00046	98536	45	98514	5307495	53.86
31	.00046	98491	45	98469	5208981	52.89
32	.00046	98446	46	98424	5110512	51.91
33	.00048	98401	47	98377	5012089	50.94
34	.00050	98354	49	98330	4913712	49.96
35	.00052	98305	51	98279	4815382	48.98
36	.00056	98254	55	98226	4717103	48.01
37	.00061	98199	60	98169	4618876	47.04
38	.00068	98139	66	98106	4520708	46.06
39	.00076	98072	74	98035	4422602	45.10

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)
40	.00174	95574	166	95490	3600500	37.67	40	.00085	97998	84	97956	4324567	44.13
41	.00188	95407	180	95317	3505010	36.74	41	.00096	97914	94	97867	4226611	43.17
42	.00206	95228	196	95129	3409693	35.81	42	.00108	97820	106	97767	4128743	42.21
43	.00229	95031	217	94922	3314564	34.88	43	.00121	97714	118	97655	4030976	41.25
44	.00256	94814	242	94692	3219641	33.96	44	.00135	97596	132	97530	3933321	40.30
45	.00285	94571	270	94437	3124949	33.04	45	.00151	97464	147	97391	3835790	39.36
46	.00317	94302	299	94152	3030512	32.14	46	.00169	97317	164	97235	3738400	38.41
47	.00356	94002	334	93835	2936360	31.24	47	.00189	97153	184	97061	3641165	37.48
48	.00400	93668	375	93481	2842525	30.35	48	.00213	96969	207	96866	3544104	36.55
49	.00450	93293	420	93083	2749044	29.47	49	.00241	96762	233	96646	3447239	35.63
50	.00506	92874	470	92638	2655961	28.60	50	.00272	96529	262	96398	3350593	34.71
51	.00565	92403	522	92143	2563323	27.74	51	.00304	96267	293	96120	3254195	33.80
52	.00619	91882	568	91598	2471180	26.90	52	.00337	95974	323	95812	3158075	32.91
53	.00665	91313	607	91010	2379582	26.06	53	.00367	95651	351	95476	3062262	32.01
54	.00708	90706	642	90385	2288573	25.23	54	.00397	95300	378	95111	2966787	31.13
55	.00757	90064	682	89724	2198187	24.41	55	.00429	94922	407	94718	2871676	30.25
56	.00817	89383	730	89018	2108464	23.59	56	.00467	94515	441	94294	2776957	29.38
57	.00885	88653	784	88261	2019446	22.78	57	.00512	94074	482	93833	2682663	28.52
58	.00963	87868	846	87445	1931185	21.98	58	.00569	93592	532	93326	2588830	27.66
59	.01054	87022	917	86563	1843740	21.19	59	.00634	93060	590	92765	2495505	26.82
60	.01151	86105	991	85609	1757176	20.41	60	.00703	92470	650	92145	2402740	25.98
61	.01262	85114	1074	84577	1671567	19.64	61	.00776	91820	712	91464	2310595	25.16
62	.01403	84039	1179	83450	1586990	18.88	62	.00853	91107	777	90719	2219131	24.36
63	.01581	82860	1310	82205	1503541	18.15	63	.00934	90330	844	89908	2128412	23.56
64	.01787	81550	1457	80822	1421335	17.43	64	.01019	89486	912	89030	2038504	22.78
65	.02017	80093	1616	79285	1340514	16.74	65	.01113	88574	986	88081	1949474	22.01
66	.02255	78477	1770	77593	1261228	16.07	66	.01211	87588	1061	87057	1861393	21.25
67	.02480	76708	1903	75757	1183636	15.43	67	.01303	86527	1127	85963	1774336	20.51
68	.02683	74805	2007	73802	1107879	14.81	68	.01385	85400	1183	84808	1688372	19.77
69	.02877	72798	2094	71751	1034077	14.20	69	.01463	84217	1232	83601	1603564	19.04
70	.03076	70704	2175	69616	962326	13.61	70	.01548	82985	1285	82343	1519963	18.32
71	.03306	68529	2265	67396	892710	13.03	71	.01649	81700	1348	81026	1437620	17.60
72	.03581	66263	2373	65077	825314	12.46	72	.01766	80353	1419	79643	1356594	16.88
73	.03915	63890	2501	62640	760237	11.90	73	.01901	78934	1501	78183	1276951	16.18
74	.04296	61389	2637	60071	697597	11.36	74	.02056	77433	1592	76637	1198767	15.48
75	.04715	58752	2770	57367	637526	10.85	75	.02239	75841	1698	74992	1122130	14.80
76	.05147	55982	2881	54541	580159	10.36	76	.02444	74142	1812	73236	1047139	14.12
77	.05565	53100	2955	51623	525618	9.90	77	.02659	72330	1923	71369	973902	13.46
78	.05957	50145	2987	48652	473996	9.45	78	.02880	70407	2028	69393	902534	12.82
79	.06342	47158	2991	45663	425344	9.02	79	.03119	68379	2133	67313	833141	12.18

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

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}_x$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}_x$
80	.06741	44167	2977	42678	379682	8.60	80	.03391	66247	2246	65124	765828	11.56
81	.07193	41190	2963	39708	337003	8.18	81	.03715	64000	2378	62812	700704	10.95
82	.07723	38227	2952	36751	297295	7.78	82	.04102	61623	2528	60359	637892	10.35
83	.08351	35274	2946	33801	260544	7.39	83	.04563	59095	2696	57747	577533	9.77
84	.09058	32329	2928	30864	226743	7.01	84	.05094	56399	2873	54962	519786	9.22
85	.09814	29400	2885	27957	195879	6.66	85	.05688	53526	3044	52004	464824	8.68
86	.10593	26515	2809	25110	167921	6.33	86	.06338	50482	3199	48882	412820	8.18
87	.11380	23706	2698	22357	142811	6.02	87	.07042	47282	3330	45617	363938	7.70
88	.12173	21008	2557	19730	120454	5.73	88	.07801	43953	3429	42238	318321	7.24
89	.12979	18451	2395	17254	100724	5.46	89	.08621	40524	3494	38777	276083	6.81
90	.13811	16056	2218	14947	83470	5.20	90	.09508	37030	3521	35270	237305	6.41
91	.14681	13839	2032	12823	68523	4.95	91	.10468	33509	3508	31756	202036	6.03
92	.15601	11807	1842	10886	55700	4.72	92	.11509	30002	3453	28275	170280	5.68
93	.16584	9965	1653	9139	44814	4.50	93	.12634	26549	3354	24872	142005	5.35
94	.17641	8312	1466	7579	35675	4.29	94	.13850	23195	3212	21588	117133	5.05
95	.18681	6846	1279	6207	28096	4.10	95	.15054	19982	3008	18478	95545	4.78
96	.19694	5567	1096	5019	21889	3.93	96	.16224	16974	2754	15597	77066	4.54
97	.20668	4471	924	4009	16870	3.77	97	.17335	14220	2465	12988	61469	4.32
98	.21593	3547	766	3164	12862	3.63	98	.18362	11755	2159	10676	48481	4.12
99	.22457	2781	624	2469	9698	3.49	99	.19280	9597	1850	8672	37805	3.94
100	.23355	2156	504	1905	7229	3.35	100	.20244	7746	1568	6962	29134	3.76
101	.24289	1653	401	1452	5325	3.22	101	.21256	6178	1313	5522	22172	3.59
102	.25261	1251	316	1093	3873	3.09	102	.22319	4865	1086	4322	16650	3.42
103	.26271	935	246	812	2780	2.97	103	.23435	3779	886	3336	12328	3.26
104	.27322	690	188	595	1967	2.85	104	.24607	2893	712	2537	8992	3.11
105	.28415	501	142	430	1372	2.74	105	.25837	2181	564	1900	6454	2.96
106	.29552	359	106	306	942	2.63	106	.27129	1618	439	1398	4554	2.82
107	.30734	253	78	214	636	2.52	107	.28486	1179	336	1011	3156	2.68
108	.31963	175	56	147	422	2.41	108	.29910	843	252	717	2145	2.54
109	.33242	119	40	99	275	2.31	109	.31405	591	186	498	1428	2.42
110	.34571	80	27	66	176	2.21	110	.32976	405	134	339	930	2.29
111	.35954	52	19	43	110	2.12	111	.34624	272	94	225	591	2.18
112	.37392	33	12	27	67	2.03	112	.36356	178	65	145	367	2.06
113	.38888	21	8	17	40	1.94	113	.38173	113	43	91	221	1.96
114	.40444	13	5	10	24	1.85	114	.40082	70	28	56	130	1.86
115	.42061	8	3	6	13	1.77	115	.42061	42	18	33	74	1.77
116	.43744	4	2	3	7	1.69	116	.43744	24	11	19	41	1.69
117	.45493	2	1	2	4	1.61	117	.45493	14	6	11	22	1.61
118	.47313	1	1	1	2	1.53	118	.47313	7	4	6	11	1.53
119	.49206	1	0	1	1	1.46	119	.49206	4	2	3	6	1.46

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

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}_x$	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}_x$
0	.00668	100000	668	99415	7569510	75.70	0	.00517	100000	517	99547	8335667	83.36
1	.00060	99332	59	99302	7470094	75.20	1	.00045	99483	45	99460	8236120	82.79
2	.00040	99273	40	99253	7370792	74.25	2	.00029	99438	29	99423	8136660	81.83
3	.00034	99233	33	99216	7271539	73.28	3	.00022	99409	22	99398	8037237	80.85
4	.00026	99200	26	99187	7172323	72.30	4	.00016	99387	16	99379	7937839	79.87
5	.00023	99174	23	99162	7073137	71.32	5	.00015	99371	15	99363	7838461	78.88
6	.00021	99151	21	99140	6973974	70.34	6	.00014	99356	14	99349	7739097	77.89
7	.00020	99130	20	99120	6874834	69.35	7	.00013	99342	13	99336	7639749	76.90
8	.00017	99110	17	99102	6775714	68.37	8	.00011	99329	11	99324	7540413	75.91
9	.00014	99093	14	99086	6676612	67.38	9	.00010	99318	10	99313	7441089	74.92
10	.00011	99079	11	99074	6577526	66.39	10	.00008	99308	8	99304	7341776	73.93
11	.00011	99068	11	99062	6478452	65.39	11	.00008	99300	8	99296	7242472	72.94
12	.00017	99057	17	99048	6379390	64.40	12	.00010	99292	10	99287	7143176	71.94
13	.00030	99040	30	99025	6280341	63.41	13	.00015	99282	15	99274	7043889	70.95
14	.00048	99010	47	98986	6181317	62.43	14	.00022	99267	22	99256	6944615	69.96
15	.00068	98963	67	98929	6082330	61.46	15	.00030	99245	30	99230	6845359	68.97
16	.00086	98896	85	98853	5983401	60.50	16	.00037	99216	37	99197	6746129	67.99
17	.00102	98811	101	98760	5884547	59.55	17	.00042	99179	42	99158	6646931	67.02
18	.00113	98710	112	98654	5785787	58.61	18	.00045	99137	45	99114	6547774	66.05
19	.00121	98598	120	98538	5687134	57.68	19	.00046	99092	45	99069	6448660	65.08
20	.00128	98478	126	98415	5588596	56.75	20	.00046	99047	45	99024	6349590	64.11
21	.00134	98352	132	98286	5490180	55.82	21	.00046	99001	46	98978	6250567	63.14
22	.00141	98220	138	98151	5391894	54.90	22	.00046	98955	46	98933	6151588	62.17
23	.00147	98082	145	98010	5293743	53.97	23	.00047	98910	46	98887	6052656	61.19
24	.00154	97937	150	97862	5195734	53.05	24	.00047	98864	46	98841	5953769	60.22
25	.00160	97787	156	97709	5097872	52.13	25	.00046	98818	46	98795	5854929	59.25
26	.00164	97631	161	97550	5000163	51.22	26	.00046	98772	46	98749	5756134	58.28
27	.00165	97470	161	97390	4902613	50.30	27	.00046	98726	45	98704	5657385	57.30
28	.00159	97310	155	97232	4805223	49.38	28	.00045	98681	45	98659	5558682	56.33
29	.00150	97155	145	97082	4707991	48.46	29	.00045	98636	44	98614	5460023	55.36
30	.00139	97009	135	96942	4610909	47.53	30	.00044	98592	44	98570	5361409	54.38
31	.00130	96875	126	96812	4513967	46.60	31	.00045	98549	44	98527	5262838	53.40
32	.00124	96749	120	96689	4417155	45.66	32	.00045	98505	44	98483	5164312	52.43
33	.00123	96629	119	96570	4320467	44.71	33	.00046	98460	45	98438	5065829	51.45
34	.00126	96510	122	96449	4223897	43.77	34	.00048	98415	47	98391	4967392	50.47
35	.00131	96389	126	96326	4127448	42.82	35	.00051	98368	50	98343	4869001	49.50
36	.00137	96262	132	96197	4031122	41.88	36	.00054	98318	53	98291	4770658	48.52
37	.00143	96131	138	96062	3934926	40.93	37	.00059	98264	58	98235	4672367	47.55
38	.00150	95993	144	95921	3838864	39.99	38	.00065	98206	64	98174	4574132	46.58
39	.00159	95849	152	95773	3742943	39.05	39	.00073	98142	72	98106	4475958	45.61

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

Male

x	q(x)	l(x)	d(x)	L(x)	T(x)	$\overset{o}{e}$(x)
40	.00169	95697	162	95616	3647170	38.11
41	.00182	95535	174	95448	3551554	37.18
42	.00200	95361	190	95266	3456106	36.24
43	.00221	95171	211	95065	3360840	35.31
44	.00247	94960	235	94843	3265775	34.39
45	.00275	94725	261	94595	3170932	33.48
46	.00307	94464	290	94320	3076337	32.57
47	.00343	94175	323	94013	2982018	31.66
48	.00386	93851	362	93670	2888005	30.77
49	.00434	93489	406	93286	2794334	29.89
50	.00488	93083	454	92856	2701048	29.02
51	.00544	92629	504	92377	2608192	28.16
52	.00596	92125	549	91850	2515815	27.31
53	.00641	91575	587	91282	2423965	26.47
54	.00682	90988	621	90678	2332684	25.64
55	.00729	90368	659	90038	2242005	24.81
56	.00786	89709	705	89356	2151967	23.99
57	.00852	89004	758	88624	2062611	23.17
58	.00927	88245	818	87836	1973986	22.37
59	.01015	87427	887	86983	1886150	21.57
60	.01108	86540	959	86060	1799167	20.79
61	.01215	85581	1040	85061	1713106	20.02
62	.01351	84541	1142	83970	1628045	19.26
63	.01522	83399	1269	82764	1544075	18.51
64	.01720	82130	1413	81424	1461311	17.79
65	.01942	80717	1568	79933	1379887	17.10
66	.02171	79150	1718	78291	1299953	16.42
67	.02387	77432	1849	76507	1221663	15.78
68	.02583	75583	1952	74607	1145156	15.15
69	.02769	73631	2039	72612	1070549	14.54
70	.02960	71592	2119	70533	997937	13.94
71	.03180	69473	2209	68369	927404	13.35
72	.03444	67264	2317	66106	859036	12.77
73	.03765	64947	2445	63725	792930	12.21
74	.04130	62502	2581	61211	729205	11.67
75	.04533	59921	2716	58563	667994	11.15
76	.04946	57205	2829	55790	609431	10.65
77	.05348	54375	2908	52921	553641	10.18
78	.05724	51468	2946	49995	500720	9.73
79	.06093	48522	2956	47043	450725	9.29

Female

x	q(x)	l(x)	d(x)	L(x)	T(x)	$\overset{o}{e}$(x)
40	.00083	98070	81	98030	4377851	44.64
41	.00093	97989	91	97943	4279822	43.68
42	.00105	97898	102	97847	4181878	42.72
43	.00117	97795	115	97738	4084032	41.76
44	.00131	97681	128	97617	3986294	40.81
45	.00146	97553	142	97482	3888677	39.86
46	.00162	97411	158	97332	3791195	38.92
47	.00182	97253	177	97164	3693863	37.98
48	.00206	97076	200	96976	3596698	37.05
49	.00232	96876	225	96764	3499722	36.13
50	.00262	96652	253	96525	3402958	35.21
51	.00293	96399	283	96257	3306433	34.30
52	.00324	96116	312	95960	3210176	33.40
53	.00353	95804	338	95635	3114216	32.51
54	.00382	95466	365	95283	3018582	31.62
55	.00413	95101	393	94904	2923299	30.74
56	.00449	94708	425	94495	2828395	29.86
57	.00493	94282	465	94050	2733900	29.00
58	.00547	93817	513	93561	2639850	28.14
59	.00610	93304	569	93020	2546289	27.29
60	.00676	92735	627	92422	2453269	26.45
61	.00746	92108	687	91764	2360847	25.63
62	.00820	91421	750	91046	2269083	24.82
63	.00898	90671	814	90264	2178037	24.02
64	.00979	89857	880	89417	2087773	23.23
65	.01069	88977	951	88501	1998356	22.46
66	.01163	88025	1023	87514	1909855	21.70
67	.01250	87002	1088	86458	1822342	20.95
68	.01328	85914	1141	85344	1735883	20.20
69	.01403	84773	1189	84179	1650540	19.47
70	.01484	83584	1240	82964	1566361	18.74
71	.01580	82344	1301	81694	1483397	18.01
72	.01690	81043	1370	80358	1401704	17.30
73	.01818	79674	1448	78949	1321345	16.58
74	.01965	78225	1537	77457	1242396	15.88
75	.02138	76688	1639	75869	1164939	15.19
76	.02331	75049	1750	74174	1089070	14.51
77	.02534	73299	1857	72371	1014896	13.85
78	.02743	71442	1959	70462	942526	13.19
79	.02969	69483	2063	68451	872063	12.55

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

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)
80	.06476	45565	2951	44090	403682	8.86	80	.03226	67420	2175	66332	803612	11.92
81	.06909	42615	2944	41143	359592	8.44	81	.03532	65245	2304	64093	737280	11.30
82	.07416	39670	2942	38199	318449	8.03	82	.03897	62941	2453	61714	673187	10.70
83	.08018	36728	2945	35256	280250	7.63	83	.04334	60488	2621	59177	611473	10.11
84	.08695	33784	2937	32315	244994	7.25	84	.04836	57866	2799	56467	552296	9.54
85	.09418	30846	2905	29394	212679	6.89	85	.05399	55068	2973	53581	495829	9.00
86	.10163	27941	2840	26521	183285	6.56	86	.06013	52095	3133	50528	442248	8.49
87	.10915	25101	2740	23731	156764	6.25	87	.06679	48962	3270	47327	391719	8.00
88	.11671	22361	2610	21057	133033	5.95	88	.07396	45692	3380	44002	344392	7.54
89	.12440	19752	2457	18523	111976	5.67	89	.08171	42312	3457	40584	300390	7.10
90	.13232	17294	2288	16150	93453	5.40	90	.09008	38855	3500	37105	259806	6.69
91	.14059	15006	2110	13951	77303	5.15	91	.09916	35355	3506	33602	222701	6.30
92	.14934	12896	1926	11933	63352	4.91	92	.10898	31849	3471	30114	189099	5.94
93	.15869	10970	1741	10100	51418	4.69	93	.11963	28378	3395	26681	158985	5.60
94	.16874	9229	1557	8451	41318	4.48	94	.13112	24984	3276	23346	132304	5.30
95	.17864	7672	1371	6987	32868	4.28	95	.14252	21708	3094	20161	108958	5.02
96	.18829	6302	1186	5708	25881	4.11	96	.15359	18614	2859	17184	88798	4.77
97	.19757	5115	1011	4610	20173	3.94	97	.16411	15755	2585	14462	71613	4.55
98	.20640	4104	847	3681	15563	3.79	98	.17382	13169	2289	12025	57151	4.34
99	.21465	3257	699	2908	11882	3.65	99	.18252	10880	1986	9887	45126	4.15
100	.22324	2558	571	2273	8974	3.51	100	.19164	8894	1705	8042	35239	3.96
101	.23217	1987	461	1756	6702	3.37	101	.20122	7190	1447	6466	27197	3.78
102	.24146	1526	368	1342	4945	3.24	102	.21129	5743	1213	5136	20731	3.61
103	.25112	1157	291	1012	3604	3.11	103	.22185	4530	1005	4027	15594	3.44
104	.26116	867	226	754	2592	2.99	104	.23294	3525	821	3114	11567	3.28
105	.27161	640	174	553	1838	2.87	105	.24459	2704	661	2373	8453	3.13
106	.28247	466	132	401	1285	2.75	106	.25682	2042	525	1780	6080	2.98
107	.29377	335	98	286	884	2.64	107	.26966	1518	409	1313	4300	2.83
108	.30552	236	72	200	599	2.53	108	.28314	1109	314	952	2986	2.69
109	.31774	164	52	138	399	2.43	109	.29730	795	236	677	2035	2.56
110	.33045	112	37	93	260	2.33	110	.31216	558	174	471	1358	2.43
111	.34367	75	26	62	167	2.23	111	.32777	384	126	321	887	2.31
112	.35742	49	18	40	105	2.13	112	.34416	258	89	214	566	2.19
113	.37171	32	12	26	64	2.04	113	.36137	169	61	139	352	2.08
114	.38658	20	8	16	39	1.95	114	.37944	108	41	88	213	1.97
115	.40204	12	5	10	23	1.86	115	.39841	67	27	54	126	1.87
116	.41812	7	3	6	13	1.78	116	.41812	40	17	32	72	1.78
117	.43485	4	2	3	7	1.70	117	.43485	23	10	18	40	1.70
118	.45224	2	1	2	4	1.62	118	.45224	13	6	10	22	1.62
119	.47033	1	1	1	2	1.54	119	.47033	7	3	6	11	1.54

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

Male							Female						
x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)	x	q(x)	l(x)	d(x)	L(x)	T(x)	$\mathring{e}$(x)
0	.00633	100000	633	99446	7618302	76.18	0	.00488	100000	488	99572	8390543	83.91
1	.00058	99367	57	99339	7518855	75.67	1	.00044	99512	43	99490	8290971	83.32
2	.00039	99310	39	99291	7419517	74.71	2	.00028	99469	28	99454	8191481	82.35
3	.00032	99271	32	99255	7320226	73.74	3	.00021	99440	21	99430	8092027	81.38
4	.00025	99239	25	99227	7220971	72.76	4	.00016	99419	16	99411	7992597	80.39
5	.00022	99214	22	99203	7121744	71.78	5	.00014	99403	14	99396	7893185	79.41
6	.00021	99192	21	99182	7022541	70.80	6	.00013	99389	13	99383	7793789	78.42
7	.00019	99171	19	99162	6923360	69.81	7	.00013	99376	12	99370	7694407	77.43
8	.00017	99152	17	99144	6824198	68.83	8	.00011	99364	11	99358	7595037	76.44
9	.00014	99135	14	99129	6725054	67.84	9	.00010	99352	10	99348	7495679	75.45
10	.00011	99122	11	99116	6625926	66.85	10	.00008	99343	8	99339	7396331	74.45
11	.00011	99111	11	99105	6526809	65.85	11	.00008	99335	8	99331	7296993	73.46
12	.00017	99100	17	99092	6427704	64.86	12	.00010	99327	10	99322	7197662	72.46
13	.00029	99083	29	99069	6328613	63.87	13	.00015	99317	15	99310	7098340	71.47
14	.00047	99054	46	99031	6229544	62.89	14	.00022	99303	21	99292	6999030	70.48
15	.00066	99008	65	98975	6130512	61.92	15	.00029	99281	29	99267	6899738	69.50
16	.00085	98943	84	98901	6031537	60.96	16	.00036	99252	36	99234	6800472	68.52
17	.00100	98859	99	98810	5932636	60.01	17	.00041	99216	41	99196	6701237	67.54
18	.00111	98760	110	98705	5833826	59.07	18	.00044	99175	44	99153	6602042	66.57
19	.00119	98650	117	98592	5735121	58.14	19	.00045	99131	44	99109	6502889	65.60
20	.00125	98533	123	98472	5636529	57.20	20	.00045	99087	44	99065	6403780	64.63
21	.00132	98410	130	98345	5538058	56.28	21	.00045	99042	45	99020	6304715	63.66
22	.00138	98281	136	98213	5439712	55.35	22	.00045	98998	45	98975	6205695	62.69
23	.00144	98145	142	98074	5341500	54.42	23	.00045	98953	45	98930	6106720	61.71
24	.00150	98003	147	97930	5243425	53.50	24	.00045	98908	45	98886	6007789	60.74
25	.00156	97856	153	97780	5145496	52.58	25	.00045	98863	45	98841	5908904	59.77
26	.00161	97703	157	97625	5047716	51.66	26	.00045	98818	45	98796	5810063	58.80
27	.00161	97546	157	97467	4950091	50.75	27	.00045	98774	44	98751	5711267	57.82
28	.00156	97389	152	97313	4852624	49.83	28	.00044	98729	44	98708	5612516	56.85
29	.00146	97237	142	97166	4755311	48.90	29	.00044	98686	43	98664	5513808	55.87
30	.00136	97095	132	97029	4658145	47.98	30	.00043	98643	43	98622	5415144	54.90
31	.00127	96963	123	96902	4561116	47.04	31	.00043	98600	42	98579	5316522	53.92
32	.00121	96840	117	96782	4464214	46.10	32	.00044	98558	43	98536	5217943	52.94
33	.00120	96723	116	96665	4367433	45.15	33	.00045	98515	44	98493	5119407	51.97
34	.00123	96607	119	96548	4270768	44.21	34	.00047	98471	46	98448	5020914	50.99
35	.00128	96488	123	96427	4174220	43.26	35	.00049	98425	48	98401	4922466	50.01
36	.00133	96365	128	96301	4077793	42.32	36	.00053	98376	52	98350	4824066	49.04
37	.00139	96237	134	96170	3981492	41.37	37	.00057	98324	56	98296	4725715	48.06
38	.00146	96103	140	96032	3885323	40.43	38	.00063	98268	62	98237	4627419	47.09
39	.00154	95962	148	95888	3789290	39.49	39	.00071	98206	70	98171	4529182	46.12

Table 3p. Calendar Year 2050 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	.00164	95815	157	95736	3693402	38.55	40	.00080	98136	78	98097	4431011	45.15
41	.00177	95658	169	95573	3597666	37.61	41	.00090	98058	88	98014	4332914	44.19
42	.00193	95489	185	95397	3502092	36.68	42	.00101	97970	99	97920	4234901	43.23
43	.00214	95304	204	95202	3406696	35.75	43	.00113	97871	111	97815	4136981	42.27
44	.00239	95100	227	94987	3311494	34.82	44	.00126	97760	123	97698	4039165	41.32
45	.00266	94873	253	94747	3216507	33.90	45	.00140	97637	137	97568	3941467	40.37
46	.00296	94620	281	94480	3121760	32.99	46	.00157	97500	153	97423	3843899	39.42
47	.00332	94340	313	94183	3027280	32.09	47	.00176	97347	171	97261	3746475	38.49
48	.00373	94027	351	93851	2933097	31.19	48	.00198	97176	193	97080	3649214	37.55
49	.00419	93676	393	93480	2839246	30.31	49	.00224	96983	217	96875	3552134	36.63
50	.00471	93283	440	93064	2745766	29.43	50	.00252	96766	244	96644	3455259	35.71
51	.00526	92844	488	92600	2652703	28.57	51	.00283	96522	273	96386	3358615	34.80
52	.00575	92356	531	92090	2560103	27.72	52	.00313	96249	301	96099	3262230	33.89
53	.00618	91824	568	91541	2468013	26.88	53	.00341	95948	327	95785	3166131	33.00
54	.00658	91257	600	90957	2376472	26.04	54	.00369	95621	352	95445	3070346	32.11
55	.00703	90657	637	90338	2285515	25.21	55	.00398	95269	379	95079	2974901	31.23
56	.00758	90020	682	89679	2195177	24.39	56	.00432	94890	410	94685	2879822	30.35
57	.00821	89338	733	88971	2105498	23.57	57	.00475	94480	448	94255	2785137	29.48
58	.00893	88604	792	88209	2016528	22.76	58	.00527	94031	495	93783	2690882	28.62
59	.00977	87813	858	87384	1928319	21.96	59	.00587	93536	549	93262	2597098	27.77
60	.01067	86954	928	86490	1840935	21.17	60	.00651	92987	605	92684	2503837	26.93
61	.01170	86026	1007	85523	1754445	20.39	61	.00718	92382	663	92050	2411153	26.10
62	.01301	85019	1106	84466	1668922	19.63	62	.00789	91719	723	91357	2319102	25.28
63	.01466	83913	1230	83298	1584456	18.88	63	.00863	90995	786	90602	2227745	24.48
64	.01657	82683	1370	81998	1501158	18.16	64	.00941	90210	849	89785	2137143	23.69
65	.01871	81313	1521	80552	1419160	17.45	65	.01027	89360	918	88901	2047358	22.91
66	.02091	79792	1668	78957	1338608	16.78	66	.01117	88442	988	87948	1958457	22.14
67	.02300	78123	1797	77225	1259651	16.12	67	.01200	87455	1050	86930	1870508	21.39
68	.02487	76326	1899	75377	1182426	15.49	68	.01275	86405	1101	85854	1783578	20.64
69	.02666	74428	1984	73436	1107049	14.87	69	.01345	85304	1148	84730	1697724	19.90
70	.02850	72443	2065	71411	1033613	14.27	70	.01423	84156	1197	83557	1612994	19.17
71	.03062	70379	2155	69301	962202	13.67	71	.01514	82959	1256	82331	1529437	18.44
72	.03315	68224	2262	67093	892901	13.09	72	.01618	81703	1322	81042	1447106	17.71
73	.03623	65962	2390	64768	825807	12.52	73	.01739	80381	1398	79682	1366064	16.99
74	.03974	63573	2526	62310	761040	11.97	74	.01878	78983	1484	78241	1286382	16.29
75	.04360	61047	2662	59716	698730	11.45	75	.02042	77499	1582	76708	1208141	15.59
76	.04757	58385	2777	56996	639014	10.94	76	.02225	75917	1689	75072	1131434	14.90
77	.05142	55608	2860	54178	582018	10.47	77	.02417	74228	1794	73331	1056361	14.23
78	.05503	52748	2903	51297	527840	10.01	78	.02614	72434	1893	71487	983031	13.57
79	.05858	49845	2920	48385	476544	9.56	79	.02828	70540	1995	69543	911544	12.92

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	.06226	46925	2921	45464	428159	9.12	80	.03071	68546	2105	67493	842001	12.28
81	.06640	44004	2922	42543	382694	8.70	81	.03360	66441	2232	65325	774508	11.66
82	.07127	41082	2928	39618	340152	8.28	82	.03706	64208	2379	63019	709183	11.05
83	.07704	38154	2939	36684	300534	7.88	83	.04119	61829	2546	60556	646165	10.45
84	.08353	35215	2941	33744	263850	7.49	84	.04595	59283	2724	57920	585609	9.88
85	.09045	32273	2919	30814	230106	7.13	85	.05127	56558	2900	55109	527688	9.33
86	.09758	29354	2864	27922	199292	6.79	86	.05710	53659	3064	52127	472580	8.81
87	.10477	26490	2775	25102	171370	6.47	87	.06339	50595	3207	48991	420453	8.31
88	.11199	23714	2656	22386	146269	6.17	88	.07017	47388	3325	45725	371462	7.84
89	.11932	21059	2513	19802	123882	5.88	89	.07749	44063	3414	42355	325737	7.39
90	.12686	18546	2353	17370	104080	5.61	90	.08540	40648	3471	38913	283381	6.97
91	.13473	16193	2182	15102	86710	5.35	91	.09397	37177	3493	35430	244468	6.58
92	.14306	14012	2005	13009	71608	5.11	92	.10326	33684	3478	31945	209038	6.21
93	.15195	12007	1825	11095	58599	4.88	93	.11332	30205	3423	28494	177093	5.86
94	.16152	10182	1645	9360	47504	4.67	94	.12420	26783	3326	25119	148599	5.55
95	.17094	8538	1459	7808	38144	4.47	95	.13499	23456	3166	21873	123480	5.26
96	.18013	7078	1275	6441	30335	4.29	96	.14547	20290	2951	18814	101607	5.01
97	.18899	5803	1097	5255	23895	4.12	97	.15542	17338	2695	15991	82793	4.78
98	.19741	4707	929	4242	18640	3.96	98	.16462	14644	2411	13438	66802	4.56
99	.20531	3777	776	3390	14398	3.81	99	.17285	12233	2114	11176	53364	4.36
100	.21352	3002	641	2681	11008	3.67	100	.18149	10119	1836	9200	42188	4.17
101	.22206	2361	524	2099	8326	3.53	101	.19057	8282	1578	7493	32988	3.98
102	.23094	1837	424	1625	6228	3.39	102	.20010	6704	1341	6033	25495	3.80
103	.24018	1413	339	1243	4603	3.26	103	.21010	5362	1127	4799	19462	3.63
104	.24979	1073	268	939	3360	3.13	104	.22061	4236	934	3769	14663	3.46
105	.25978	805	209	701	2421	3.01	105	.23164	3301	765	2919	10894	3.30
106	.27017	596	161	515	1720	2.89	106	.24322	2537	617	2228	7975	3.14
107	.28098	435	122	374	1205	2.77	107	.25538	1920	490	1675	5747	2.99
108	.29222	313	91	267	831	2.66	108	.26815	1429	383	1238	4072	2.85
109	.30391	221	67	188	564	2.55	109	.28156	1046	295	899	2835	2.71
110	.31606	154	49	130	376	2.44	110	.29563	752	222	640	1936	2.58
111	.32871	105	35	88	247	2.34	111	.31041	529	164	447	1295	2.45
112	.34185	71	24	59	158	2.24	112	.32593	365	119	306	848	2.32
113	.35553	47	17	38	100	2.14	113	.34223	246	84	204	542	2.20
114	.36975	30	11	24	62	2.05	114	.35934	162	58	133	338	2.09
115	.38454	19	7	15	37	1.96	115	.37731	104	39	84	206	1.98
116	.39992	12	5	9	22	1.87	116	.39618	65	26	52	122	1.88
117	.41592	7	3	6	13	1.79	117	.41592	39	16	31	70	1.79
118	.43255	4	2	3	7	1.71	118	.43255	23	10	18	39	1.71
119	.44986	2	1	2	4	1.63	119	.44986	13	6	10	21	1.63

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

Calendar Year	Sex and Exact Age: Male 0	30	60	65	70	100	Female 0	30	60	65	70	100
1900	.14596	.00838	.02930	.04159	.06182	.43304	.11970	.00829	.02627	.03691	.05627	.43304
1901	.12803	.00852	.03035	.04228	.06170	.42911	.10426	.00801	.02690	.03751	.05564	.42911
1902	.12557	.00789	.02881	.03984	.05938	.40101	.10262	.00750	.02458	.03454	.05206	.40101
1903	.12032	.00788	.02995	.04149	.06102	.42235	.09804	.00743	.02616	.03653	.05399	.42235
1904	.12600	.00827	.03259	.04357	.06503	.45078	.10273	.00773	.02696	.03741	.05819	.45078
1905	.12792	.00781	.03121	.04244	.06113	.44824	.10359	.00737	.02641	.03754	.05563	.44824
1906	.13092	.00802	.03054	.04189	.06031	.44610	.10659	.00726	.02541	.03615	.05391	.44610
1907	.12498	.00833	.03222	.04463	.06533	.46040	.10231	.00709	.02671	.03786	.05730	.46040
1908	.12022	.00716	.02941	.03987	.05862	.43253	.09843	.00653	.02454	.03536	.05351	.43253
1909	.11457	.00676	.02856	.04053	.05907	.43454	.09368	.00615	.02386	.03532	.05262	.43454
1910	.12006	.00713	.02968	.04151	.06173	.43583	.09827	.00635	.02424	.03591	.05513	.43583
1911	.10457	.00689	.02886	.04054	.06164	.42634	.08551	.00618	.02392	.03511	.05497	.42634
1912	.10242	.00664	.02888	.04072	.06091	.42004	.08287	.00588	.02369	.03498	.05360	.42004
1913	.10576	.00679	.02847	.04007	.06143	.41209	.08549	.00584	.02313	.03410	.05339	.41209
1914	.09930	.00655	.02793	.03950	.06214	.40230	.08035	.00575	.02308	.03376	.05386	.40230
1915	.09566	.00637	.02797	.03947	.06331	.41866	.07604	.00561	.02352	.03444	.05623	.41866
1916	.09748	.00672	.02882	.04116	.06412	.42625	.07743	.00580	.02383	.03542	.05652	.42625
1917	.09689	.00715	.02926	.04170	.06474	.41916	.07639	.00596	.02402	.03549	.05613	.41916
1918	.10263	.01792	.02864	.04080	.06180	.38914	.08206	.01422	.02405	.03501	.05430	.38914
1919	.08467	.00762	.02465	.03606	.05467	.39123	.06703	.00771	.02169	.03268	.05006	.39123
1920	.08594	.00659	.02481	.03714	.05728	.42232	.06774	.00730	.02267	.03408	.05255	.42232
1921	.07529	.00480	.02390	.03492	.05409	.40299	.05984	.00501	.02137	.03164	.04908	.40299
1922	.07284	.00502	.02585	.03755	.05878	.41881	.05750	.00507	.02239	.03306	.05208	.41881
1923	.07539	.00504	.02725	.03847	.06005	.44254	.06051	.00493	.02309	.03362	.05354	.44254
1924	.07224	.00471	.02654	.03792	.05825	.42034	.05679	.00458	.02225	.03162	.05050	.42034
1925	.07093	.00477	.02664	.03882	.05838	.44081	.05598	.00458	.02235	.03293	.05050	.44081
1926	.07290	.00481	.02719	.04067	.05969	.46296	.05789	.00466	.02298	.03431	.05204	.46296
1927	.06533	.00461	.02600	.03932	.05681	.44039	.05119	.00452	.02122	.03257	.04869	.44039
1928	.06918	.00499	.02701	.04151	.05945	.47780	.05406	.00476	.02223	.03444	.05102	.47780
1929	.06736	.00510	.02733	.04147	.05929	.47447	.05349	.00480	.02218	.03417	.05055	.47447
1930	.06495	.00491	.02739	.03945	.05751	.43074	.05179	.00445	.02187	.03205	.04848	.43074
1931	.06113	.00475	.02711	.03773	.05652	.42679	.04836	.00433	.02159	.03080	.04731	.42679
1932	.05826	.00434	.02729	.03711	.05644	.43435	.04628	.00406	.02162	.03034	.04804	.43435
1933	.05806	.00428	.02751	.03700	.05631	.42179	.04642	.00389	.02120	.02975	.04631	.42179
1934	.06319	.00435	.02802	.03789	.05646	.42341	.05002	.00383	.02133	.02987	.04621	.42341
1935	.05849	.00427	.02725	.03825	.05478	.42746	.04542	.00375	.02053	.02997	.04479	.42746
1936	.05992	.00438	.02851	.04044	.05644	.45357	.04709	.00377	.02096	.03130	.04599	.45357
1937	.05839	.00422	.02786	.03988	.05456	.43827	.04605	.00353	.02013	.03017	.04381	.43827
1938	.05563	.00363	.02587	.03779	.05301	.42049	.04370	.00308	.01900	.02870	.04247	.42049
1939	.05174	.00346	.02607	.03763	.05366	.43366	.04065	.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	.05286	.00340	.02663	.03812	.05612	.42547	.04163	.00277	.01829	.02764	.04395	.42547
1941	.05097	.00330	.02593	.03701	.05474	.41655	.04050	.00260	.01751	.02637	.04183	.41655
1942	.04601	.00321	.02564	.03644	.05321	.40333	.03661	.00240	.01711	.02552	.04083	.40333
1943	.04490	.00312	.02635	.03669	.05474	.43141	.03526	.00238	.01753	.02598	.04212	.43141
1944	.04396	.00313	.02569	.03534	.05219	.40924	.03509	.00225	.01674	.02456	.03995	.40924
1945	.04250	.00338	.02568	.03499	.05066	.40682	.03340	.00212	.01622	.02378	.03802	.40682
1946	.03941	.00259	.02501	.03400	.04890	.39836	.03084	.00193	.01573	.02279	.03684	.39836
1947	.03594	.00240	.02577	.03510	.05074	.40982	.02796	.00180	.01567	.02278	.03707	.40982
1948	.03588	.00229	.02538	.03503	.05024	.39953	.02787	.00159	.01523	.02223	.03588	.39953
1949	.03516	.00213	.02501	.03497	.04974	.37872	.02736	.00151	.01477	.02193	.03521	.37872
1950	.03279	.00213	.02476	.03487	.05046	.37202	.02551	.00143	.01462	.02128	.03449	.37202
1951	.03214	.00214	.02447	.03499	.05026	.36291	.02490	.00138	.01429	.02104	.03370	.36291
1952	.03196	.00210	.02452	.03487	.04924	.35154	.02498	.00132	.01379	.02062	.03314	.35154
1953	.03125	.00202	.02444	.03512	.04948	.35863	.02429	.00121	.01336	.02044	.03282	.35863
1954	.02990	.00191	.02311	.03390	.04811	.34611	.02328	.00112	.01261	.01948	.03098	.34611
1955	.02963	.00185	.02309	.03408	.04859	.36603	.02308	.00108	.01237	.01962	.03059	.36603
1956	.02934	.00186	.02347	.03446	.04872	.37163	.02264	.00108	.01236	.01946	.03033	.37163
1957	.02957	.00189	.02412	.03581	.05031	.37580	.02304	.00114	.01259	.01983	.03085	.37580
1958	.03020	.00183	.02366	.03524	.04947	.37389	.02372	.00108	.01237	.01924	.03029	.37389
1959	.02959	.00185	.02347	.03460	.04893	.36635	.02305	.00108	.01209	.01869	.02939	.36477
1960	.02937	.00182	.02392	.03515	.05019	.36793	.02262	.00106	.01237	.01869	.02941	.36137
1961	.02838	.00178	.02339	.03485	.04841	.36738	.02199	.00104	.01197	.01820	.02841	.35924
1962	.02851	.00179	.02362	.03547	.04920	.37846	.02184	.00105	.01212	.01835	.02842	.37026
1963	.02837	.00185	.02422	.03609	.05056	.38676	.02181	.00105	.01230	.01840	.02839	.37273
1964	.02776	.00193	.02417	.03521	.04901	.36888	.02153	.00107	.01197	.01796	.02723	.35811
1965	.02753	.00192	.02421	.03554	.04924	.37415	.02134	.00107	.01173	.01793	.02678	.35747
1966	.02655	.00197	.02430	.03566	.05008	.37128	.02058	.00108	.01146	.01779	.02721	.35398
1967	.02513	.00199	.02385	.03466	.04971	.36132	.01949	.00102	.01121	.01737	.02653	.34064
1968	.02455	.00209	.02446	.03543	.05072	.38692	.01893	.00103	.01167	.01686	.02620	.34714
1969	.02350	.00211	.02376	.03429	.04937	.36857	.01818	.00104	.01127	.01613	.02541	.32995
1970	.02246	.00209	.02347	.03416	.04887	.34899	.01759	.00101	.01123	.01598	.02513	.31517
1971	.02127	.00207	.02283	.03372	.04890	.35084	.01652	.00101	.01105	.01592	.02477	.31654
1972	.02065	.00206	.02301	.03373	.04923	.35278	.01592	.00099	.01093	.01589	.02485	.31700
1973	.01981	.00206	.02251	.03321	.04839	.35762	.01537	.00094	.01090	.01551	.02395	.31863
1974	.01873	.00198	.02149	.03215	.04671	.33922	.01465	.00089	.01059	.01514	.02312	.30361
1975	.01783	.00193	.02080	.03122	.04556	.32773	.01416	.00084	.01023	.01465	.02237	.29319
1976	.01687	.00182	.02045	.03089	.04489	.34361	.01361	.00081	.01016	.01462	.02210	.30205
1977	.01580	.00181	.01979	.03003	.04416	.32882	.01244	.00078	.00992	.01451	.02170	.29175
1978	.01529	.00180	.01950	.02983	.04395	.32813	.01226	.00077	.00982	.01446	.02172	.30685
1979	.01457	.00186	.01868	.02882	.04281	.31745	.01161	.00074	.00946	.01411	.02128	.28124

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	.01398	.00189	.01846	.02882	.04311	.32945	.01125	.00075	.00955	.01452	.02194	.29698
1981	.01326	.00193	.01821	.02807	.04211	.31794	.01019	.00077	.00967	.01438	.02150	.28735
1982	.01284	.00178	.01724	.02785	.04116	.31164	.01005	.00071	.00944	.01422	.02097	.28290
1983	.01233	.00176	.01688	.02742	.04063	.30838	.00968	.00069	.00931	.01407	.02066	.27977
1984	.01186	.00174	.01653	.02701	.04012	.30523	.00934	.00067	.00918	.01393	.02037	.27671
1985	.01143	.00172	.01618	.02662	.03962	.30218	.00902	.00066	.00906	.01379	.02009	.27373
1986	.01103	.00170	.01585	.02623	.03915	.29922	.00872	.00064	.00894	.01367	.01983	.27084
1987	.01066	.00168	.01554	.02587	.03869	.29635	.00844	.00062	.00883	.01354	.01957	.26804
1988	.01032	.00167	.01523	.02551	.03825	.29357	.00819	.00061	.00872	.01343	.01934	.26532
1989	.01002	.00165	.01494	.02517	.03783	.29088	.00795	.00059	.00862	.01332	.01911	.26268
1990	.00974	.00163	.01466	.02484	.03743	.28829	.00773	.00058	.00852	.01322	.01890	.26012
1991	.00949	.00162	.01440	.02453	.03704	.28579	.00754	.00056	.00843	.01313	.01870	.25765
1992	.00928	.00160	.01415	.02424	.03668	.28341	.00736	.00055	.00834	.01305	.01852	.25526
1993	.00909	.00159	.01392	.02397	.03634	.28114	.00721	.00054	.00826	.01297	.01836	.25297
1994	.00894	.00158	.01372	.02372	.03603	.27899	.00708	.00053	.00819	.01290	.01821	.25078
1995	.00882	.00157	.01354	.02350	.03575	.27697	.00698	.00052	.00813	.01284	.01809	.24870
1996	.00872	.00155	.01338	.02331	.03550	.27510	.00689	.00051	.00808	.01279	.01798	.24671
1997	.00864	.00155	.01326	.02314	.03528	.27334	.00681	.00051	.00803	.01274	.01788	.24480
1998	.00857	.00154	.01315	.02299	.03508	.27168	.00675	.00050	.00799	.01269	.01780	.24299
1999	.00850	.00153	.01306	.02286	.03490	.27014	.00669	.00050	.00796	.01264	.01772	.24130
2000	.00844	.00153	.01299	.02275	.03473	.26867	.00664	.00050	.00792	.01259	.01764	.23969
2001	.00839	.00152	.01292	.02264	.03457	.26728	.00659	.00050	.00789	.01254	.01757	.23817
2002	.00834	.00152	.01286	.02254	.03442	.26594	.00655	.00049	.00786	.01250	.01749	.23670
2003	.00828	.00151	.01280	.02244	.03427	.26464	.00650	.00049	.00783	.01245	.01741	.23530
2004	.00823	.00151	.01275	.02235	.03412	.26337	.00646	.00049	.00780	.01240	.01734	.23393
2005	.00818	.00150	.01270	.02226	.03398	.26212	.00642	.00049	.00776	.01235	.01726	.23258
2006	.00813	.00150	.01265	.02217	.03384	.26088	.00638	.00049	.00773	.01229	.01719	.23127
2007	.00808	.00150	.01259	.02208	.03371	.25966	.00634	.00048	.00770	.01224	.01711	.22997
2008	.00803	.00150	.01254	.02199	.03357	.25845	.00630	.00048	.00767	.01219	.01704	.22868
2009	.00799	.00149	.01249	.02190	.03343	.25724	.00626	.00048	.00764	.01214	.01696	.22741
2010	.00794	.00149	.01244	.02181	.03330	.25605	.00622	.00048	.00761	.01209	.01689	.22614
2011	.00789	.00149	.01239	.02173	.03316	.25486	.00618	.00048	.00758	.01204	.01681	.22489
2012	.00785	.00148	.01235	.02164	.03303	.25368	.00614	.00048	.00755	.01199	.01674	.22364
2013	.00780	.00148	.01230	.02156	.03290	.25250	.00610	.00048	.00752	.01194	.01667	.22240
2014	.00775	.00147	.01225	.02147	.03277	.25134	.00606	.00048	.00749	.01189	.01659	.22117
2015	.00771	.00147	.01220	.02139	.03264	.25018	.00602	.00047	.00746	.01184	.01652	.21994
2016	.00766	.00147	.01215	.02130	.03251	.24902	.00599	.00047	.00743	.01179	.01645	.21872
2017	.00762	.00146	.01210	.02122	.03238	.24787	.00595	.00047	.00740	.01174	.01638	.21751
2018	.00757	.00146	.01206	.02114	.03225	.24673	.00591	.00047	.00737	.01170	.01631	.21632
2019	.00753	.00146	.01201	.02105	.03212	.24560	.00588	.00047	.00734	.01165	.01624	.21512

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

Calendar Year	Sex and Exact Age: Male 0	30	60	65	70	100	Female 0	30	60	65	70	100
2020	.00748	.00145	.01196	.02097	.03199	.24447	.00584	.00047	.00731	.01160	.01617	.21393
2021	.00744	.00145	.01192	.02089	.03187	.24335	.00580	.00047	.00729	.01155	.01610	.21275
2022	.00740	.00145	.01187	.02081	.03174	.24224	.00577	.00046	.00726	.01150	.01603	.21157
2023	.00736	.00144	.01183	.02073	.03162	.24112	.00573	.00046	.00723	.01146	.01596	.21041
2024	.00731	.00144	.01178	.02065	.03149	.24002	.00570	.00046	.00720	.01141	.01589	.20925
2025	.00727	.00144	.01173	.02057	.03137	.23893	.00566	.00046	.00717	.01137	.01582	.20810
2026	.00723	.00143	.01169	.02049	.03125	.23784	.00563	.00046	.00714	.01132	.01575	.20695
2027	.00719	.00143	.01164	.02041	.03112	.23676	.00559	.00046	.00712	.01127	.01568	.20582
2028	.00715	.00143	.01160	.02033	.03100	.23569	.00556	.00046	.00709	.01123	.01562	.20469
2029	.00711	.00142	.01155	.02025	.03088	.23461	.00553	.00046	.00706	.01118	.01555	.20356
2030	.00707	.00142	.01151	.02017	.03076	.23355	.00549	.00046	.00703	.01113	.01548	.20244
2031	.00703	.00142	.01146	.02010	.03064	.23249	.00546	.00045	.00701	.01109	.01542	.20133
2032	.00699	.00141	.01142	.02002	.03052	.23144	.00543	.00045	.00698	.01104	.01535	.20023
2033	.00695	.00141	.01138	.01995	.03041	.23039	.00539	.00045	.00695	.01100	.01529	.19913
2034	.00691	.00141	.01134	.01987	.03029	.22935	.00536	.00045	.00692	.01095	.01522	.19804
2035	.00687	.00141	.01129	.01979	.03017	.22832	.00533	.00045	.00690	.01091	.01516	.19696
2036	.00683	.00140	.01125	.01972	.03006	.22729	.00530	.00045	.00687	.01087	.01509	.19589
2037	.00679	.00140	.01121	.01964	.02994	.22627	.00527	.00045	.00684	.01082	.01503	.19481
2038	.00676	.00140	.01116	.01957	.02983	.22525	.00524	.00045	.00682	.01078	.01496	.19375
2039	.00672	.00139	.01112	.01950	.02971	.22425	.00520	.00044	.00679	.01074	.01490	.19270
2040	.00668	.00139	.01108	.01942	.02960	.22324	.00517	.00044	.00676	.01069	.01484	.19164
2041	.00665	.00139	.01104	.01935	.02949	.22224	.00515	.00044	.00674	.01065	.01478	.19060
2042	.00661	.00138	.01100	.01928	.02937	.22125	.00511	.00044	.00671	.01061	.01471	.18956
2043	.00657	.00138	.01096	.01921	.02926	.22026	.00508	.00044	.00669	.01057	.01465	.18853
2044	.00654	.00138	.01092	.01913	.02915	.21929	.00506	.00044	.00666	.01052	.01459	.18751
2045	.00650	.00137	.01088	.01906	.02904	.21830	.00503	.00044	.00664	.01048	.01453	.18649
2046	.00647	.00137	.01083	.01899	.02893	.21734	.00500	.00044	.00661	.01044	.01447	.18548
2047	.00643	.00137	.01079	.01892	.02882	.21638	.00497	.00044	.00659	.01040	.01441	.18447
2048	.00640	.00136	.01075	.01885	.02872	.21542	.00494	.00043	.00656	.01036	.01435	.18347
2049	.00636	.00136	.01071	.01878	.02861	.21447	.00491	.00043	.00653	.01031	.01429	.18248
2050	.00633	.00136	.01067	.01871	.02850	.21352	.00488	.00043	.00651	.01027	.01423	.18149

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	46.40	34.57	14.18	11.35	8.85	1.71	48.95	35.80	14.96	12.01	9.37	1.71
1901	47.87	34.33	14.09	11.33	8.85	1.72	50.86	35.90	14.88	11.99	9.35	1.72
1902	49.02	35.10	14.53	11.71	9.17	1.87	52.08	36.97	15.59	12.61	9.91	1.87
1903	49.20	34.76	14.21	11.43	8.92	1.76	52.12	36.48	15.14	12.22	9.57	1.76
1904	48.08	34.00	13.74	11.09	8.61	1.63	51.09	36.00	14.77	11.87	9.22	1.63
1905	48.73	34.52	14.04	11.35	8.85	1.64	51.88	36.38	14.96	12.05	9.43	1.64
1906	48.26	34.49	14.18	11.44	8.94	1.65	51.95	36.77	15.18	12.22	9.56	1.65
1907	48.29	33.79	13.69	11.01	8.58	1.58	52.21	36.29	14.72	11.79	9.15	1.58
1908	50.21	35.26	14.41	11.61	9.03	1.71	53.59	37.30	15.32	12.32	9.63	1.71
1909	51.12	35.53	14.43	11.60	9.08	1.70	54.46	37.60	15.41	12.36	9.68	1.70
1910	50.08	35.02	14.18	11.38	8.87	1.69	53.58	37.23	15.16	12.10	9.43	1.69
1911	51.79	35.26	14.31	11.47	8.94	1.74	55.04	37.38	15.27	12.19	9.49	1.74
1912	52.34	35.35	14.34	11.49	8.98	1.77	55.87	37.65	15.35	12.26	9.56	1.77
1913	51.72	35.33	14.43	11.55	9.03	1.81	55.45	37.74	15.49	12.37	9.64	1.81
1914	52.87	35.63	14.49	11.59	9.06	1.86	56.33	37.85	15.56	12.44	9.71	1.86
1915	53.50	35.63	14.38	11.44	8.88	1.78	56.79	37.64	15.28	12.16	9.44	1.78
1916	52.42	35.13	14.17	11.26	8.77	1.74	55.98	37.38	15.15	12.03	9.35	1.74
1917	52.18	34.85	14.11	11.22	8.75	1.77	55.91	37.31	15.16	12.06	9.38	1.77
1918	45.34	32.05	14.49	11.63	9.19	1.93	49.08	35.08	15.53	12.48	9.84	1.93
1919	54.19	36.59	15.30	12.27	9.65	1.92	56.45	37.82	16.02	12.85	10.12	1.92
1920	54.51	36.75	14.87	11.81	9.18	1.76	56.27	37.46	15.48	12.34	9.61	1.76
1921	57.25	38.06	15.30	12.24	9.53	1.86	59.26	38.97	15.99	12.82	9.99	1.86
1922	57.02	37.24	14.72	11.76	9.11	1.78	59.33	38.50	15.56	12.45	9.64	1.78
1923	56.31	36.81	14.42	11.54	8.87	1.66	58.74	38.25	15.29	12.20	9.37	1.66
1924	57.15	37.11	14.65	11.75	9.10	1.77	59.90	38.83	15.75	12.65	9.75	1.77
1925	57.22	36.97	14.55	11.65	9.03	1.67	59.93	38.70	15.62	12.52	9.69	1.67
1926	56.57	36.53	14.28	11.37	8.81	1.57	59.33	38.31	15.33	12.23	9.46	1.57
1927	57.94	37.09	14.69	11.75	9.20	1.67	60.86	39.05	15.91	12.73	9.95	1.67
1928	56.77	36.35	14.27	11.33	8.83	1.51	59.82	38.34	15.44	12.29	9.55	1.51
1929	56.99	36.37	14.34	11.42	8.94	1.53	60.16	38.52	15.56	12.41	9.68	1.53
1930	57.96	36.91	14.69	11.83	9.29	1.72	61.31	39.23	16.04	12.91	10.11	1.72
1931	58.57	37.09	14.86	11.98	9.36	1.74	62.02	39.54	16.25	13.12	10.26	1.74
1932	59.44	37.39	14.80	11.92	9.23	1.70	62.59	39.64	16.10	12.95	10.03	1.70
1933	59.58	37.50	14.85	12.02	9.33	1.76	63.03	40.01	16.34	13.18	10.25	1.76
1934	58.85	37.20	14.70	11.88	9.22	1.75	62.68	39.97	16.28	13.13	10.19	1.75
1935	59.42	37.31	14.80	11.93	9.32	1.73	63.32	40.14	16.41	13.21	10.31	1.73
1936	58.75	36.68	14.40	11.56	9.00	1.61	62.85	39.72	16.02	12.81	9.94	1.61
1937	59.36	37.04	14.63	11.77	9.22	1.68	63.58	40.20	16.38	13.14	10.24	1.68
1938	60.81	37.99	15.05	12.11	9.52	1.77	64.74	40.93	16.75	13.45	10.51	1.77
1939	61.44	38.07	14.99	12.04	9.43	1.70	65.41	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	61.43	37.99	14.84	11.92	9.32	1.74	65.74	41.28	16.78	13.42	10.42	1.74
1941	61.90	38.31	15.11	12.17	9.56	1.79	66.46	41.84	17.21	13.81	10.78	1.79
1942	62.58	38.54	15.33	12.39	9.78	1.86	67.36	42.25	17.46	14.05	10.99	1.86
1943	62.25	38.34	15.05	12.11	9.46	1.71	67.10	41.90	17.13	13.72	10.65	1.71
1944	62.68	38.79	15.41	12.47	9.78	1.82	67.82	42.49	17.55	14.10	10.98	1.82
1945	62.87	38.86	15.56	12.63	9.95	1.84	68.44	42.88	17.85	14.38	11.23	1.84
1946	64.25	39.47	15.80	12.86	10.14	1.88	69.21	43.34	18.08	14.59	11.38	1.88
1947	64.57	39.28	15.54	12.64	9.95	1.82	69.68	43.40	18.02	14.52	11.31	1.82
1948	64.84	39.47	15.63	12.71	10.05	1.88	70.16	43.79	18.24	14.72	11.48	1.88
1949	65.27	39.76	15.74	12.82	10.16	2.00	70.66	44.15	18.47	14.93	11.70	2.00
1950	65.63	39.88	15.75	12.81	10.16	2.04	71.13	44.41	18.61	15.07	11.79	2.04
1951	65.66	39.91	15.79	12.84	10.21	2.10	71.36	44.57	18.71	15.15	11.86	2.10
1952	65.78	40.06	15.91	12.97	10.35	2.17	71.62	44.84	18.91	15.31	12.01	2.17
1953	65.98	40.13	15.86	12.93	10.31	2.12	71.98	45.03	18.98	15.35	12.05	2.12
1954	66.74	40.70	16.21	13.22	10.59	2.21	72.75	45.64	19.42	15.75	12.41	2.21
1955	66.72	40.64	16.09	13.08	10.44	2.07	72.81	45.67	19.34	15.64	12.30	2.07
1956	66.73	40.61	16.03	13.04	10.41	2.04	72.94	45.75	19.39	15.68	12.34	2.04
1957	66.47	40.35	15.83	12.89	10.32	2.01	72.73	45.59	19.28	15.60	12.28	2.01
1958	66.64	40.49	15.90	12.93	10.34	2.03	72.92	45.79	19.39	15.69	12.32	2.03
1959	66.80	40.63	16.04	13.06	10.44	2.07	73.24	46.05	19.60	15.88	12.49	2.08
1960	66.66	40.45	15.86	12.91	10.30	2.06	73.24	46.02	19.57	15.89	12.48	2.08
1961	67.07	40.74	16.04	13.08	10.47	2.07	73.63	46.33	19.81	16.11	12.67	2.09
1962	66.89	40.55	15.89	12.93	10.34	2.00	73.50	46.20	19.72	16.03	12.59	2.03
1963	66.64	40.31	15.69	12.75	10.17	1.95	73.42	46.11	19.67	15.99	12.56	2.00
1964	66.84	40.51	15.91	13.00	10.39	2.06	73.74	46.41	19.98	16.29	12.84	2.10
1965	66.79	40.44	15.83	12.92	10.32	2.02	73.84	46.48	20.05	16.34	12.89	2.10
1966	66.69	40.33	15.79	12.86	10.27	2.04	73.90	46.50	20.07	16.32	12.88	2.12
1967	66.95	40.50	15.95	13.01	10.38	2.11	74.29	46.78	20.35	16.58	13.13	2.21
1968	66.61	40.20	15.73	12.80	10.19	1.95	74.21	46.69	20.34	16.60	13.10	2.17
1969	66.88	40.44	15.99	13.02	10.38	2.06	74.60	47.03	20.66	16.90	13.36	2.29
1970	67.15	40.59	16.11	13.14	10.51	2.19	74.87	47.24	20.87	17.11	13.58	2.41
1971	67.40	40.75	16.15	13.13	10.48	2.18	75.06	47.35	20.91	17.14	13.60	2.39
1972	67.42	40.72	16.10	13.09	10.43	2.16	75.22	47.45	20.97	17.18	13.65	2.39
1973	67.64	40.92	16.23	13.19	10.52	2.13	75.47	47.64	21.14	17.35	13.79	2.38
1974	68.27	41.39	16.56	13.48	10.79	2.26	76.03	48.09	21.45	17.66	14.08	2.50
1975	68.74	41.77	16.81	13.70	10.98	2.35	76.56	48.56	21.83	18.02	14.43	2.60
1976	69.08	41.97	16.87	13.75	11.01	2.23	76.77	48.71	21.89	18.08	14.49	2.52
1977	69.40	42.25	17.07	13.91	11.15	2.34	77.17	49.02	22.15	18.34	14.75	2.61
1978	69.58	42.39	17.12	13.95	11.17	2.34	77.25	49.09	22.15	18.33	14.74	2.48
1979	69.96	42.74	17.40	14.18	11.37	2.43	77.71	49.48	22.45	18.61	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	69.94	42.67	17.31	14.04	11.23	2.33	77.52	49.24	22.21	18.36	14.79	2.56
1981	70.23	42.86	17.51	14.24	11.40	2.43	77.83	49.45	22.42	18.59	15.02	2.65
1982	70.71	43.21	17.65	14.32	11.48	2.48	78.13	49.69	22.57	18.73	15.15	2.70
1983	70.95	43.41	17.77	14.42	11.57	2.51	78.37	49.90	22.72	18.87	15.29	2.73
1984	71.18	43.59	17.89	14.51	11.65	2.54	78.60	50.09	22.87	19.01	15.43	2.76
1985	71.41	43.78	18.01	14.61	11.73	2.56	78.83	50.29	23.01	19.15	15.56	2.79
1986	71.63	43.96	18.12	14.70	11.81	2.59	79.05	50.48	23.16	19.29	15.70	2.82
1987	71.84	44.13	18.23	14.80	11.89	2.62	79.27	50.66	23.30	19.43	15.83	2.85
1988	72.04	44.30	18.34	14.89	11.96	2.64	79.48	50.84	23.43	19.56	15.96	2.88
1989	72.24	44.47	18.44	14.97	12.04	2.67	79.68	51.01	23.57	19.69	16.08	2.91
1990	72.43	44.63	18.54	15.06	12.11	2.70	79.87	51.18	23.69	19.81	16.21	2.94
1991	72.61	44.78	18.64	15.14	12.18	2.72	80.06	51.34	23.82	19.93	16.32	2.97
1992	72.78	44.93	18.73	15.21	12.24	2.75	80.23	51.50	23.93	20.04	16.44	2.99
1993	72.94	45.07	18.82	15.28	12.30	2.77	80.39	51.64	24.04	20.15	16.54	3.02
1994	73.08	45.19	18.90	15.35	12.36	2.79	80.54	51.77	24.15	20.25	16.64	3.05
1995	73.21	45.30	18.97	15.41	12.41	2.81	80.67	51.89	24.24	20.34	16.73	3.07
1996	73.33	45.40	19.04	15.47	12.46	2.83	80.78	51.99	24.32	20.42	16.81	3.10
1997	73.43	45.49	19.10	15.52	12.51	2.85	80.88	52.08	24.39	20.49	16.88	3.12
1998	73.51	45.57	19.15	15.57	12.55	2.87	80.97	52.16	24.45	20.55	16.94	3.15
1999	73.59	45.63	19.20	15.61	12.59	2.89	81.04	52.23	24.51	20.61	16.99	3.17
2000	73.65	45.69	19.24	15.65	12.62	2.90	81.11	52.29	24.57	20.66	17.05	3.19
2001	73.72	45.75	19.28	15.69	12.66	2.92	81.18	52.35	24.62	20.71	17.09	3.21
2002	73.77	45.80	19.33	15.73	12.69	2.93	81.24	52.41	24.67	20.76	17.14	3.23
2003	73.83	45.85	19.37	15.77	12.72	2.95	81.30	52.47	24.72	20.80	17.18	3.25
2004	73.88	45.90	19.41	15.80	12.76	2.96	81.36	52.52	24.77	20.85	17.23	3.27
2005	73.94	45.94	19.44	15.84	12.79	2.98	81.42	52.57	24.81	20.89	17.27	3.29
2006	73.99	45.99	19.48	15.87	12.82	2.99	81.47	52.63	24.86	20.94	17.31	3.30
2007	74.04	46.04	19.52	15.91	12.86	3.01	81.53	52.68	24.91	20.98	17.35	3.32
2008	74.09	46.08	19.56	15.95	12.89	3.02	81.59	52.73	24.95	21.03	17.39	3.34
2009	74.14	46.13	19.60	15.98	12.92	3.04	81.64	52.78	25.00	21.07	17.44	3.36
2010	74.19	46.18	19.64	16.02	12.95	3.05	81.70	52.83	25.05	21.12	17.48	3.38
2011	74.25	46.22	19.68	16.05	12.99	3.07	81.75	52.88	25.09	21.16	17.52	3.40
2012	74.30	46.27	19.72	16.09	13.02	3.08	81.81	52.94	25.14	21.21	17.56	3.42
2013	74.35	46.31	19.75	16.13	13.05	3.10	81.86	52.99	25.19	21.25	17.60	3.43
2014	74.40	46.36	19.79	16.16	13.09	3.11	81.92	53.04	25.23	21.29	17.64	3.45
2015	74.45	46.40	19.83	16.20	13.12	3.13	81.98	53.09	25.28	21.34	17.69	3.47
2016	74.50	46.45	19.87	16.23	13.15	3.14	82.03	53.14	25.33	21.38	17.73	3.49
2017	74.55	46.49	19.91	16.27	13.18	3.16	82.09	53.19	25.37	21.43	17.77	3.51
2018	74.60	46.54	19.95	16.31	13.22	3.17	82.14	53.24	25.42	21.47	17.81	3.53
2019	74.65	46.59	19.99	16.34	13.25	3.19	82.20	53.30	25.47	21.52	17.85	3.55

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

Calendar Year	Sex and Exact Age: Male 0	Male 30	Male 60	Male 65	Male 70	Male 100	Female 0	Female 30	Female 60	Female 65	Female 70	Female 100
2020	74.70	46.63	20.02	16.38	13.28	3.20	82.25	53.35	25.52	21.56	17.90	3.57
2021	74.75	46.68	20.06	16.41	13.32	3.22	82.31	53.40	25.56	21.61	17.94	3.59
2022	74.80	46.72	20.10	16.45	13.35	3.23	82.36	53.45	25.61	21.65	17.98	3.60
2023	74.85	46.77	20.14	16.49	13.38	3.25	82.42	53.50	25.66	21.70	18.02	3.62
2024	74.90	46.81	20.18	16.52	13.41	3.26	82.47	53.55	25.70	21.74	18.06	3.64
2025	74.95	46.86	20.22	16.56	13.45	3.28	82.53	53.61	25.75	21.79	18.11	3.66
2026	75.00	46.90	20.25	16.59	13.48	3.29	82.58	53.66	25.80	21.83	18.15	3.68
2027	75.05	46.95	20.29	16.63	13.51	3.31	82.64	53.71	25.84	21.88	18.19	3.70
2028	75.10	46.99	20.33	16.67	13.55	3.32	82.70	53.76	25.89	21.92	18.23	3.72
2029	75.15	47.04	20.37	16.70	13.58	3.34	82.75	53.81	25.94	21.96	18.27	3.74
2030	75.20	47.08	20.41	16.74	13.61	3.35	82.80	53.86	25.98	22.01	18.32	3.76
2031	75.25	47.13	20.45	16.77	13.64	3.37	82.86	53.92	26.03	22.05	18.36	3.78
2032	75.30	47.17	20.48	16.81	13.68	3.38	82.92	53.97	26.08	22.10	18.40	3.80
2033	75.35	47.22	20.52	16.84	13.71	3.40	82.97	54.02	26.12	22.14	18.44	3.82
2034	75.40	47.26	20.56	16.88	13.74	3.41	83.03	54.07	26.17	22.19	18.49	3.84
2035	75.45	47.31	20.60	16.92	13.77	3.43	83.08	54.12	26.22	22.23	18.53	3.86
2036	75.50	47.35	20.64	16.95	13.81	3.45	83.14	54.17	26.27	22.28	18.57	3.88
2037	75.55	47.40	20.68	16.99	13.84	3.46	83.19	54.23	26.31	22.32	18.61	3.90
2038	75.60	47.44	20.71	17.02	13.87	3.48	83.25	54.28	26.36	22.37	18.65	3.92
2039	75.65	47.49	20.75	17.06	13.91	3.49	83.30	54.33	26.41	22.41	18.70	3.94
2040	75.70	47.53	20.79	17.10	13.94	3.51	83.36	54.38	26.45	22.46	18.74	3.96
2041	75.74	47.58	20.83	17.13	13.97	3.52	83.41	54.43	26.50	22.50	18.78	3.98
2042	75.79	47.62	20.87	17.17	14.00	3.54	83.47	54.48	26.55	22.55	18.83	4.00
2043	75.84	47.66	20.90	17.20	14.04	3.56	83.52	54.53	26.60	22.59	18.87	4.02
2044	75.89	47.71	20.94	17.24	14.07	3.57	83.58	54.59	26.64	22.64	18.91	4.04
2045	75.94	47.75	20.98	17.27	14.10	3.59	83.63	54.64	26.69	22.68	18.95	4.06
2046	75.99	47.80	21.02	17.31	14.14	3.60	83.69	54.69	26.74	22.73	19.00	4.09
2047	76.04	47.84	21.06	17.35	14.17	3.62	83.74	54.74	26.78	22.78	19.04	4.11
2048	76.09	47.89	21.10	17.38	14.20	3.63	83.80	54.79	26.83	22.82	19.08	4.13
2049	76.13	47.93	21.13	17.42	14.23	3.65	83.85	54.84	26.88	22.87	19.12	4.15
2050	76.18	47.98	21.17	17.45	14.27	3.67	83.91	54.90	26.93	22.91	19.17	4.17

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

Calendar Year	Sex and Survival Rate: Male .5	.1	.01	.001	.0001	.00001	Female .5	.1	.01	.001	.0001	.00001
1900	55.15	80.89	90.91	96.80	101.19	104.77	58.17	82.32	92.19	97.72	101.91	105.38
1901	56.40	81.02	90.90	96.81	101.26	104.84	60.12	82.53	92.29	97.81	102.01	105.53
1902	57.99	81.83	91.93	97.95	102.55	106.20	61.70	83.70	93.67	99.25	103.57	106.99
1903	58.04	81.40	91.35	97.25	101.70	105.28	61.47	83.10	92.77	98.27	102.52	105.92
1904	56.72	80.65	90.50	96.26	100.58	104.00	60.49	82.48	92.08	97.47	101.54	104.84
1905	57.63	81.17	91.00	96.73	100.94	104.44	61.39	82.94	92.50	97.78	101.81	105.08
1906	56.98	81.20	91.24	96.93	101.15	104.63	61.76	83.24	92.70	97.94	101.95	105.28
1907	56.69	80.52	90.55	96.26	100.48	103.87	61.80	82.56	91.96	97.25	101.26	104.57
1908	59.26	81.77	91.79	97.55	101.79	105.25	63.40	83.63	92.97	98.36	102.47	105.80
1909	60.31	82.03	91.93	97.62	101.82	105.26	64.27	83.88	93.26	98.54	102.58	105.86
1910	59.12	81.49	91.53	97.28	101.57	104.97	63.50	83.31	92.79	98.14	102.25	105.63
1911	60.51	81.88	91.86	97.65	101.92	105.47	64.47	83.64	92.99	98.45	102.61	105.94
1912	60.88	81.96	92.00	97.84	102.17	105.73	65.16	83.81	93.28	98.72	102.87	106.29
1913	60.33	81.99	92.18	98.03	102.48	105.97	64.98	83.92	93.50	98.94	103.17	106.64
1914	61.47	82.29	92.45	98.38	102.82	106.45	65.52	84.15	93.72	99.27	103.57	106.98
1915	61.97	82.14	92.06	97.86	102.22	105.77	65.71	83.79	93.38	98.79	102.93	106.39
1916	60.78	81.68	91.68	97.51	101.83	105.37	65.10	83.48	92.93	98.39	102.56	105.91
1917	60.35	81.54	91.67	97.58	101.95	105.58	64.94	83.47	93.05	98.57	102.77	106.19
1918	48.36	80.42	91.87	98.21	102.87	106.65	55.95	82.76	93.45	99.29	103.74	107.34
1919	63.01	83.56	93.42	99.22	103.67	107.24	65.37	84.78	94.42	99.93	104.23	107.73
1920	63.75	82.92	92.42	98.02	102.34	105.80	65.27	83.90	93.22	98.65	102.79	106.17
1921	66.13	84.01	93.30	98.93	103.29	106.80	67.86	85.09	93.99	99.49	103.71	107.12
1922	65.44	83.24	92.47	98.08	102.43	105.89	67.61	84.57	93.27	98.70	102.87	106.30
1923	64.73	82.76	91.71	97.22	101.44	104.84	67.20	84.05	92.52	97.80	101.88	105.23
1924	65.28	83.17	92.30	97.93	102.27	105.78	68.10	84.79	93.34	98.71	102.86	106.28
1925	65.22	83.02	91.93	97.45	101.63	104.97	67.95	84.67	92.96	98.17	102.21	105.55
1926	64.64	82.51	91.49	96.86	100.90	104.23	67.40	84.18	92.55	97.63	101.55	104.75
1927	65.61	83.30	92.53	97.91	101.98	105.38	68.53	85.18	93.74	98.79	102.73	105.92
1928	64.59	82.44	91.64	96.89	100.80	103.96	67.64	84.34	92.86	97.76	101.51	104.60
1929	64.60	82.61	91.94	97.18	101.02	104.25	67.85	84.56	93.28	98.08	101.81	104.86
1930	65.26	83.38	92.97	98.44	102.55	105.87	68.76	85.50	94.45	99.47	103.37	106.60
1931	65.69	83.66	93.19	98.63	102.74	106.04	69.32	85.89	94.85	99.83	103.73	106.89
1932	66.37	83.63	92.96	98.37	102.45	105.77	69.77	85.68	94.42	99.39	103.26	106.48
1933	66.44	83.82	93.33	98.77	102.89	106.30	70.16	86.12	94.96	99.94	103.86	107.04
1934	65.86	83.47	93.11	98.63	102.77	106.13	70.01	85.96	94.85	99.85	103.77	106.95
1935	66.21	83.67	93.22	98.66	102.75	106.05	70.33	86.25	94.93	99.87	103.75	106.90
1936	65.46	82.89	92.37	97.74	101.73	104.95	69.91	85.50	94.10	98.92	102.71	105.81
1937	65.93	83.31	92.92	98.33	102.37	105.69	70.52	86.11	94.75	99.61	103.41	106.56
1938	67.28	84.19	93.78	99.12	103.22	106.59	71.47	86.77	95.41	100.31	104.15	107.36
1939	67.60	84.10	93.42	98.71	102.72	105.96	71.82	86.64	95.06	99.89	103.71	106.82

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

Calendar Year	Sex and Survival Rate: Male .5	Male .1	Male .01	Male .001	Male .0001	Male .00001	Female .5	Female .1	Female .01	Female .001	Female .0001	Female .00001
1940	67.53	83.98	93.15	98.60	102.72	106.04	72.08	86.72	94.95	99.89	103.79	106.94
1941	67.92	84.43	93.63	98.99	103.16	106.59	72.68	87.38	95.69	100.63	104.49	107.66
1942	68.25	84.84	94.10	99.58	103.78	107.19	73.21	87.83	96.02	100.99	104.92	108.16
1943	68.04	84.33	93.28	98.60	102.66	105.94	72.95	87.21	95.32	100.14	103.91	106.98
1944	68.46	84.95	94.06	99.48	103.64	106.96	73.60	87.87	95.92	100.85	104.75	107.92
1945	68.53	85.29	94.36	99.72	103.84	107.21	74.10	88.36	96.36	101.23	105.04	108.25
1946	69.49	85.87	94.69	100.03	104.23	107.66	74.64	88.66	96.43	101.37	105.29	108.54
1947	69.41	85.63	94.32	99.64	103.75	107.06	74.78	88.58	96.34	101.14	104.95	108.10
1948	69.60	85.81	94.54	99.91	104.08	107.55	75.18	88.89	96.68	101.59	105.46	108.65
1949	69.91	86.04	95.04	100.64	104.92	108.47	75.51	89.29	97.19	102.24	106.24	109.55
1950	70.11	86.06	95.09	100.76	105.12	108.71	75.82	89.47	97.48	102.59	106.62	109.88
1951	70.10	86.07	95.38	101.09	105.56	109.10	76.05	89.58	97.65	102.83	106.91	110.28
1952	70.18	86.24	95.81	101.65	106.10	109.77	76.30	89.84	97.87	103.18	107.39	110.79
1953	70.28	86.20	95.68	101.42	105.84	109.46	76.55	89.88	97.85	103.03	107.15	110.56
1954	70.93	86.87	96.37	102.12	106.63	110.22	77.19	90.51	98.42	103.70	107.84	111.25
1955	70.92	86.63	95.86	101.45	105.76	109.28	77.27	90.24	97.90	102.95	106.97	110.31
1956	70.87	86.56	95.69	101.20	105.52	108.95	77.39	90.27	97.91	102.90	106.87	110.10
1957	70.50	86.36	95.42	100.92	105.22	108.73	77.25	90.09	97.73	102.72	106.67	109.88
1958	70.72	86.41	95.45	100.96	105.30	108.80	77.46	90.18	97.82	102.82	106.77	109.97
1959	70.88	86.62	95.67	101.27	105.64	109.13	77.78	90.44	98.13	103.19	107.16	110.47
1960	70.70	86.37	95.46	101.05	105.47	108.96	77.79	90.42	98.16	103.24	107.18	110.46
1961	71.03	86.69	95.59	101.18	105.57	109.03	78.14	90.65	98.35	103.41	107.33	110.58
1962	70.83	86.47	95.14	100.70	104.96	108.52	78.04	90.44	97.98	102.95	106.84	109.98
1963	70.58	86.18	94.80	100.30	104.59	107.99	77.97	90.34	97.88	102.85	106.68	109.79
1964	70.79	86.57	95.41	100.99	105.41	108.91	78.31	90.76	98.42	103.48	107.37	110.59
1965	70.73	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	70.85	86.64	95.59	101.29	105.72	109.30	78.69	91.26	99.02	104.20	108.05	111.27
1968	70.54	86.25	95.03	100.51	104.74	108.16	78.69	91.23	98.91	103.98	107.84	110.86
1969	70.84	86.58	95.56	101.13	105.51	108.98	79.06	91.66	99.53	104.73	108.65	111.73
1970	70.98	86.82	95.96	101.80	106.30	109.91	79.22	92.08	100.08	105.42	109.39	112.53
1971	71.22	86.83	95.88	101.70	106.17	109.82	79.37	92.03	100.00	105.34	109.30	112.44
1972	71.21	86.78	95.88	101.68	106.11	109.76	79.44	92.17	100.09	105.39	109.34	112.46
1973	71.44	86.95	95.92	101.63	105.98	109.62	79.70	92.31	100.15	105.40	109.32	112.42
1974	71.96	87.50	96.57	102.41	106.91	110.60	80.17	92.77	100.77	106.07	110.04	113.21
1975	72.37	87.90	97.06	102.98	107.60	111.28	80.60	93.37	101.39	106.75	110.75	113.89
1976	72.64	87.99	96.87	102.58	106.96	110.60	80.81	93.35	101.16	106.43	110.37	113.48
1977	72.95	88.31	97.35	103.18	107.72	111.38	81.11	93.79	101.70	106.96	110.93	114.03
1978	73.10	88.37	97.38	103.22	107.76	111.43	81.19	93.74	101.32	106.46	110.36	113.58
1979	73.47	88.77	97.85	103.79	108.39	112.02	81.53	94.21	102.20	107.59	111.60	114.75

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

Calendar Year	Sex and Survival Rate: Male .5	Male .1	Male .01	Male .001	Male .0001	Male .00001	Female .5	Female .1	Female .01	Female .001	Female .0001	Female .00001
1980	73.47	88.52	97.44	103.24	107.75	111.40	81.29	93.86	101.62	106.83	110.76	113.87
1981	73.72	88.82	97.86	103.79	108.38	112.00	81.54	94.20	102.02	107.35	111.31	114.51
1982	74.12	89.03	98.12	104.09	108.74	112.47	81.75	94.41	102.29	107.61	111.60	114.80
1983	74.33	89.21	98.32	104.32	108.92	112.69	81.97	94.61	102.50	107.81	111.79	114.97
1984	74.53	89.39	98.50	104.53	109.14	112.88	82.18	94.80	102.69	107.98	111.96	115.24
1985	74.72	89.55	98.67	104.72	109.38	113.07	82.38	94.97	102.87	108.21	112.20	115.48
1986	74.91	89.71	98.83	104.89	109.59	113.33	82.59	95.17	103.04	108.42	112.43	115.69
1987	75.10	89.86	98.98	105.06	109.77	113.55	82.79	95.35	103.25	108.62	112.63	115.86
1988	75.27	90.00	99.15	105.27	109.93	113.74	82.99	95.52	103.44	108.79	112.81	116.02
1989	75.44	90.16	99.32	105.45	110.13	113.90	83.17	95.69	103.62	108.95	112.96	116.28
1990	75.60	90.30	99.48	105.62	110.34	114.08	83.35	95.84	103.78	109.14	113.17	116.50
1991	75.76	90.44	99.62	105.78	110.53	114.31	83.52	95.99	103.93	109.34	113.38	116.68
1992	75.90	90.56	99.76	105.92	110.69	114.50	83.69	96.15	104.09	109.51	113.57	116.83
1993	76.04	90.68	99.88	106.06	110.83	114.67	83.84	96.29	104.26	109.67	113.72	116.97
1994	76.16	90.79	99.99	106.23	110.96	114.81	83.99	96.42	104.41	109.81	113.86	117.16
1995	76.27	90.88	100.12	106.37	111.12	114.93	84.11	96.54	104.55	109.93	113.98	117.35
1996	76.37	90.97	100.23	106.50	111.28	115.07	84.21	96.65	104.67	110.07	114.15	117.51
1997	76.45	91.05	100.34	106.61	111.41	115.24	84.31	96.74	104.78	110.22	114.31	117.65
1998	76.53	91.13	100.43	106.72	111.54	115.38	84.39	96.82	104.88	110.36	114.45	117.77
1999	76.59	91.20	100.52	106.81	111.64	115.50	84.46	96.90	104.97	110.47	114.58	117.87
2000	76.65	91.27	100.60	106.89	111.74	115.62	84.53	96.97	105.07	110.58	114.68	117.96
2001	76.71	91.33	100.68	106.97	111.83	115.71	84.59	97.04	105.17	110.68	114.78	118.08
2002	76.76	91.40	100.75	107.07	111.91	115.80	84.65	97.11	105.27	110.77	114.87	118.22
2003	76.81	91.46	100.82	107.17	111.99	115.89	84.71	97.18	105.35	110.85	114.95	118.34
2004	76.86	91.51	100.89	107.27	112.10	115.97	84.77	97.24	105.44	110.93	115.04	118.46
2005	76.91	91.57	100.95	107.36	112.21	116.07	84.82	97.30	105.52	111.01	115.16	118.56
2006	76.95	91.63	101.02	107.45	112.32	116.19	84.88	97.37	105.60	111.12	115.28	118.66
2007	77.00	91.68	101.11	107.53	112.42	116.31	84.93	97.43	105,68	111.23	115.39	118.75
2008	77.05	91.74	101.19	107.62	112.51	116.41	84.99	97.49	105.76	111.32	115.49	118.83
2009	77.09	91.80	101.26	107.70	112.60	116.52	85.04	97.55	105.83	111.42	115.58	118.91
2010	77.14	91.85	101.34	107.78	112.69	116.61	85.09	97.61	105.90	111.51	115.67	118.98
2011	77.18	91.91	101.42	107.85	112.77	116.70	85.15	97.66	105.97	111.60	115.76	119.10
2012	77.23	91.96	101.49	107.93	112.85	116.79	85.20	97.72	106.05	111.69	115.84	119.23
2013	77.27	92.02	101.56	108.00	112.93	116.87	85.25	97.78	106.14	111.77	115.92	119.35
2014	77.32	92.08	101.63	108.10	113.01	116.95	85.30	97.84	106.23	111.85	115.99	119.46
2015	77.37	92.14	101.70	108.19	113.12	117.03	85.36	97.90	106.32	111.92	116.11	119.56
2016	77.41	92.19	101.77	108.29	113.23	117.16	85.41	97.95	106.40	112.00	116.23	119.65
2017	77.46	92.25	101.84	108.38	113.33	117.27	85.46	98.01	106.48	112.11	116.34	119.74
2018	77.50	92.31	101.91	108.46	113.43	117.38	85.52	98.07	106.56	112.21	116.44	119.83
2019	77.55	92.37	101.97	108.55	113.52	117.48	85.57	98.14	106.64	112.31	116.54	119.90

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

Calendar Year	Sex and Survival Rate: Male .5	.1	.01	.001	.0001	.00001	Female .5	.1	.01	.001	.0001	.00001
2020	77.59	92.43	102.05	108.63	113.61	117.58	85.62	98.20	106.72	112.41	116.63	119.98
2021	77.64	92.48	102.13	108.71	113.70	117.67	85.67	98.27	106.79	112.50	116.72	120.09
2022	77.68	92.54	102.21	108.79	113.78	117.76	85.73	98.33	106.87	112.59	116.80	120.22
2023	77.73	92.60	102.29	108.87	113.86	117.84	85.78	98.39	106.94	112.68	116.88	120.34
2024	77.78	92.65	102.36	108.94	113.94	117.92	85.84	98.45	107.01	112.76	116.96	120.45
2025	77.82	92.71	102.44	109.02	114.02	117.99	85.89	98.51	107.10	112.84	117.05	120.55
2026	77.87	92.76	102.51	109.12	114.13	118.11	85.94	98.57	107.19	112.92	117.17	120.65
2027	77.91	92.82	102.58	109.21	114.24	118.23	86.00	98.63	107.28	112.99	117.29	120.74
2028	77.96	92.87	102.66	109.30	114.34	118.34	86.05	98.69	107.37	113.10	117.39	120.82
2029	78.00	92.93	102.73	109.40	114.44	118.45	86.10	98.75	107.45	113.20	117.49	120.90
2030	78.05	92.98	102.80	109.48	114.53	118.55	86.15	98.81	107.53	113.30	117.59	120.97
2031	78.09	93.04	102.86	109.57	114.62	118.64	86.20	98.87	107.61	113.40	117.68	121.08
2032	78.14	93.10	102.93	109.65	114.71	118.73	86.25	98.93	107.69	113.49	117.76	121.21
2033	78.18	93.16	103.00	109.73	114.79	118.81	86.31	98.99	107.77	113.58	117.85	121.33
2034	78.23	93.22	103.08	109.81	114.87	118.89	86.36	99.05	107.84	113.67	117.93	121.44
2035	78.27	93.27	103.16	109.88	114.95	118.97	86.41	99.12	107.92	113.75	118.00	121.54
2036	78.32	93.33	103.24	109.96	115.03	119.07	86.46	99.19	107.99	113.84	118.12	121.64
2037	78.36	93.39	103.32	110.04	115.14	119.19	86.51	99.25	108.08	113.91	118.24	121.73
2038	78.41	93.44	103.39	110.14	115.25	119.30	86.56	99.32	108.17	113.99	118.35	121.81
2039	78.45	93.50	103.47	110.23	115.35	119.41	86.62	99.38	108.26	114.09	118.45	121.89
2040	78.50	93.56	103.54	110.32	115.45	119.51	86.67	99.44	108.35	114.20	118.55	121.97
2041	78.54	93.61	103.61	110.41	115.54	119.60	86.72	99.51	108.43	114.30	118.64	122.07
2042	78.59	93.67	103.69	110.50	115.63	119.69	86.77	99.57	108.51	114.40	118.73	122.20
2043	78.63	93.72	103.76	110.58	115.71	119.78	86.83	99.63	108.60	114.49	118.81	122.32
2044	78.68	93.78	103.82	110.67	115.80	119.86	86.88	99.69	108.67	114.58	118.89	122.43
2045	78.72	93.83	103.89	110.75	115.88	119.93	86.93	99.75	108.75	114.67	118.97	122.53
2046	78.77	93.89	103.96	110.82	115.95	120.01	86.98	99.82	108.83	114.75	119.07	122.63
2047	78.81	93.94	104.03	110.90	116.04	120.13	87.03	99.88	108.90	114.83	119.19	122.72
2048	78.86	93.99	104.11	110.97	116.15	120.25	87.08	99.94	108.98	114.91	119.30	122.80
2049	78.90	94.05	104.19	111.06	116.25	120.36	87.13	100.00	109.06	114.99	119.40	122.88
2050	78.95	94.11	104.27	111.16	116.35	120.46	87.19	100.06	109.16	115.09	119.50	122.96

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	51.57	39.40	16.45	13.59	11.13	2.94	58.44	45.97	21.84	18.31	15.04	3.24
1901	52.95	39.58	16.52	13.68	11.22	2.95	59.91	46.29	22.02	18.50	15.19	3.26
1902	53.42	39.76	16.58	13.77	11.31	2.97	60.52	46.63	22.20	18.67	15.34	3.28
1903	53.95	39.93	16.66	13.86	11.41	2.98	61.22	46.96	22.38	18.84	15.49	3.30
1904	53.94	40.09	16.74	13.96	11.50	3.00	61.40	47.27	22.55	18.98	15.62	3.31
1905	54.07	40.26	16.84	14.05	11.57	3.01	61.66	47.57	22.70	19.11	15.74	3.33
1906	54.28	40.43	16.93	14.14	11.64	3.03	61.98	47.84	22.84	19.24	15.84	3.35
1907	55.00	40.61	17.04	14.23	11.71	3.04	62.74	48.09	22.97	19.37	15.95	3.37
1908	55.61	40.80	17.15	14.34	11.78	3.06	63.43	48.32	23.10	19.50	16.05	3.39
1909	56.23	40.97	17.28	14.46	11.86	3.07	64.12	48.53	23.24	19.62	16.16	3.41
1910	56.36	41.14	17.41	14.56	11.94	3.09	64.39	48.73	23.36	19.74	16.27	3.43
1911	57.64	41.31	17.55	14.66	12.03	3.10	65.68	48.92	23.49	19.84	16.39	3.45
1912	57.95	41.49	17.67	14.76	12.10	3.12	66.11	49.11	23.61	19.95	16.50	3.46
1913	58.14	41.66	17.80	14.85	12.17	3.13	66.41	49.29	23.72	20.05	16.60	3.48
1914	58.84	41.84	17.92	14.93	12.23	3.15	67.12	49.48	23.83	20.15	16.70	3.50
1915	59.16	42.03	18.03	15.01	12.29	3.16	67.56	49.66	23.94	20.23	16.79	3.52
1916	59.33	42.24	18.14	15.08	12.35	3.18	67.79	49.84	24.04	20.33	16.87	3.54
1917	59.46	42.43	18.25	15.16	12.41	3.19	67.90	50.01	24.13	20.42	16.95	3.56
1918	60.05	42.62	18.37	15.23	12.46	3.21	68.66	50.17	24.23	20.50	17.02	3.58
1919	61.52	42.79	18.48	15.30	12.52	3.22	70.08	50.32	24.31	20.58	17.09	3.60
1920	61.87	42.96	18.58	15.37	12.56	3.24	70.54	50.46	24.39	20.65	17.15	3.62
1921	62.85	43.11	18.68	15.44	12.61	3.25	71.44	50.58	24.46	20.72	17.21	3.64
1922	63.21	43.25	18.78	15.50	12.66	3.27	71.81	50.70	24.54	20.78	17.27	3.66
1923	63.40	43.37	18.86	15.56	12.70	3.28	71.96	50.80	24.61	20.84	17.32	3.68
1924	63.88	43.49	18.94	15.62	12.74	3.30	72.49	50.90	24.68	20.90	17.37	3.70
1925	64.16	43.61	19.02	15.67	12.78	3.31	72.72	50.99	24.74	20.95	17.41	3.72
1926	64.40	43.73	19.10	15.72	12.82	3.33	72.95	51.09	24.80	21.00	17.46	3.74
1927	65.12	43.86	19.17	15.77	12.85	3.35	73.65	51.19	24.86	21.05	17.50	3.76
1928	65.15	44.00	19.24	15.82	12.89	3.36	73.72	51.29	24.92	21.10	17.55	3.78
1929	65.59	44.14	19.30	15.87	12.92	3.38	74.09	51.40	24.97	21.14	17.59	3.80
1930	66.03	44.28	19.37	15.91	12.96	3.39	74.48	51.51	25.02	21.19	17.64	3.82
1931	66.56	44.42	19.43	15.95	12.99	3.41	75.00	51.62	25.08	21.24	17.68	3.84
1932	66.92	44.54	19.48	15.99	13.02	3.42	75.33	51.72	25.13	21.28	17.72	3.86
1933	67.09	44.66	19.53	16.03	13.06	3.44	75.49	51.83	25.18	21.33	17.77	3.88
1934	66.99	44.78	19.59	16.07	13.09	3.46	75.47	51.93	25.23	21.37	17.81	3.90
1935	67.52	44.90	19.63	16.11	13.13	3.47	76.04	52.04	25.28	21.42	17.85	3.92
1936	67.65	45.01	19.68	16.14	13.16	3.49	76.14	52.16	25.33	21.47	17.90	3.94
1937	68.01	45.13	19.72	16.18	13.19	3.50	76.48	52.27	25.38	21.51	17.94	3.96
1938	68.45	45.24	19.76	16.22	13.23	3.52	76.92	52.38	25.43	21.56	17.98	3.98
1939	68.89	45.36	19.81	16.26	13.26	3.54	77.35	52.49	25.47	21.61	18.03	4.00

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	68.99	45.47	19.85	16.29	13.30	3.55	77.43	52.59	25.52	21.65	18.07	4.03
1941	69.32	45.58	19.89	16.33	13.33	3.57	77.72	52.70	25.57	21.70	18.11	4.05
1942	69.84	45.69	19.93	16.37	13.36	3.58	78.20	52.80	25.62	21.74	18.16	4.07
1943	70.09	45.80	19.97	16.40	13.40	3.60	78.49	52.90	25.67	21.79	18.20	4.09
1944	70.32	45.90	20.01	16.44	13.43	3.62	78.68	53.00	25.72	21.84	18.25	4.11
1945	70.53	45.99	20.05	16.48	13.46	3.63	78.94	53.09	25.77	21.88	18.29	4.13
1946	70.91	46.08	20.09	16.52	13.50	3.65	79.31	53.18	25.82	21.93	18.33	4.15
1947	71.22	46.16	20.13	16.55	13.53	3.66	79.64	53.26	25.87	21.98	18.38	4.17
1948	71.33	46.23	20.17	16.59	13.57	3.68	79.77	53.34	25.91	22.02	18.42	4.20
1949	71.45	46.31	20.21	16.63	13.60	3.70	79.91	53.42	25.96	22.07	18.46	4.22
1950	71.71	46.38	20.25	16.66	13.63	3.71	80.13	53.50	26.01	22.12	18.51	4.24
1951	71.85	46.46	20.29	16.70	13.67	3.73	80.28	53.57	26.06	22.17	18.55	4.26
1952	71.96	46.54	20.33	16.74	13.70	3.75	80.38	53.65	26.11	22.21	18.60	4.28
1953	72.10	46.60	20.37	16.78	13.73	3.76	80.54	53.72	26.16	22.26	18.64	4.30
1954	72.29	46.67	20.41	16.81	13.77	3.78	80.70	53.79	26.21	22.31	18.69	4.33
1955	72.39	46.73	20.45	16.85	13.80	3.80	80.79	53.86	26.26	22.35	18.73	4.35
1956	72.49	46.79	20.48	16.89	13.84	3.81	80.90	53.92	26.31	22.40	18.77	4.37
1957	72.56	46.85	20.52	16.92	13.87	3.83	80.96	53.99	26.36	22.45	18.82	4.39
1958	72.60	46.91	20.56	16.96	13.90	3.85	80.99	54.05	26.41	22.49	18.86	4.41
1959	72.72	46.97	20.60	17.00	13.94	3.86	81.12	54.11	26.46	22.54	18.91	4.44
1960	72.82	47.02	20.64	17.03	13.97	3.88	81.23	54.17	26.51	22.59	18.95	4.46
1961	72.97	47.08	20.68	17.07	14.00	3.90	81.36	54.23	26.55	22.64	19.00	4.48
1962	73.03	47.13	20.72	17.11	14.04	3.91	81.44	54.29	26.60	22.68	19.04	4.50
1963	73.13	47.18	20.76	17.14	14.07	3.93	81.51	54.35	26.65	22.73	19.08	4.53
1964	73.25	47.23	20.80	17.18	14.11	3.95	81.62	54.41	26.70	22.78	19.13	4.55
1965	73.34	47.28	20.84	17.22	14.14	3.96	81.70	54.46	26.75	22.82	19.17	4.57
1966	73.50	47.33	20.88	17.26	14.17	3.98	81.85	54.52	26.80	22.87	19.22	4.59
1967	73.67	47.38	20.92	17.29	14.21	4.00	82.01	54.57	26.85	22.92	19.26	4.62
1968	73.80	47.42	20.96	17.33	14.24	4.01	82.14	54.63	26.90	22.97	19.31	4.64
1969	73.95	47.47	21.00	17.37	14.28	4.03	82.27	54.68	26.95	23.01	19.35	4.66
1970	74.09	47.52	21.04	17.40	14.31	4.04	82.40	54.74	27.00	23.06	19.40	4.68
1971	74.24	47.57	21.08	17.44	14.34	4.06	82.55	54.79	27.05	23.11	19.44	4.70
1972	74.36	47.61	21.12	17.48	14.38	4.08	82.67	54.85	27.10	23.15	19.48	4.72
1973	74.49	47.66	21.16	17.51	14.41	4.09	82.78	54.90	27.15	23.20	19.53	4.74
1974	74.63	47.71	21.20	17.55	14.44	4.11	82.91	54.95	27.20	23.25	19.57	4.76
1975	74.76	47.75	21.23	17.59	14.48	4.12	83.02	55.01	27.24	23.29	19.62	4.78
1976	74.89	47.80	21.27	17.62	14.51	4.13	83.13	55.06	27.29	23.34	19.66	4.79
1977	75.04	47.84	21.31	17.66	14.54	4.14	83.29	55.11	27.34	23.39	19.70	4.81
1978	75.15	47.89	21.35	17.70	14.58	4.15	83.37	55.17	27.39	23.43	19.75	4.82
1979	75.26	47.94	21.39	17.73	14.61	4.16	83.49	55.22	27.44	23.48	19.79	4.83

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

Year of Birth	Sex and Survival Rate: Male .5	.1	.01	.001	.0001	.00001	Female .5	.1	.01	.001	.0001	.00001
1900	62.88	85.81	97.32	104.55	110.06	114.57	71.54	92.89	102.66	109.03	113.82	117.65
1901	63.81	86.16	97.57	104.76	110.30	114.75	72.59	93.26	102.91	109.29	113.98	117.82
1902	64.14	86.38	97.74	104.91	110.47	114.88	73.18	93.54	103.12	109.48	114.19	117.96
1903	64.51	86.60	97.91	105.08	110.63	115.01	73.85	93.80	103.34	109.66	114.38	118.14
1904	64.58	86.74	98.03	105.23	110.75	115.18	74.21	94.00	103.51	109.81	114.54	118.31
1905	64.73	86.89	98.18	105.37	110.87	115.33	74.58	94.20	103.66	109.94	114.68	118.47
1906	64.93	87.05	98.33	105.51	110.99	115.48	74.93	94.39	103.81	110.09	114.81	118.61
1907	65.41	87.30	98.50	105.67	111.17	115.63	75.44	94.60	103.97	110.27	114.93	118.75
1908	65.81	87.52	98.66	105.82	111.34	115.76	75.89	94.80	104.14	110.44	115.08	118.87
1909	66.24	87.74	98.81	105.95	111.49	115.89	76.34	94.98	104.31	110.59	115.25	118.98
1910	66.43	87.90	98.93	106.09	111.62	115.99	76.61	95.13	104.45	110.71	115.40	119.14
1911	67.22	88.19	99.13	106.29	111.78	116.19	77.32	95.36	104.63	110.86	115.56	119.32
1912	67.51	88.36	99.28	106.43	111.90	116.34	77.65	95.51	104.75	110.97	115.69	119.47
1913	67.76	88.51	99.40	106.55	112.00	116.48	77.94	95.63	104.87	111.11	115.80	119.59
1914	68.26	88.71	99.56	106.70	112.17	116.62	78.39	95.78	104.99	111.26	115.91	119.72
1915	68.58	88.86	99.68	106.81	112.32	116.74	78.73	95.91	105.13	111.40	116.02	119.83
1916	68.85	89.00	99.79	106.92	112.45	116.85	79.00	96.01	105.25	111.52	116.16	119.92
1917	69.10	89.13	99.90	107.03	112.57	116.95	79.20	96.11	105.36	111.63	116.30	120.02
1918	69.57	89.32	100.03	107.19	112.70	117.09	79.66	96.26	105.50	111.75	116.44	120.19
1919	70.41	89.58	100.24	107.38	112.85	117.28	80.32	96.45	105.66	111.89	116.59	120.36
1920	70.75	89.72	100.36	107.51	112.96	117.42	80.62	96.56	105.77	111.99	116.70	120.49
1921	71.32	89.91	100.52	107.65	113.11	117.56	81.04	96.70	105.89	112.14	116.82	120.62
1922	71.62	90.04	100.63	107.76	113.25	117.68	81.26	96.80	105.99	112.26	116.91	120.73
1923	71.84	90.15	100.73	107.86	113.38	117.79	81.41	96.87	106.09	112.38	117.00	120.82
1924	72.17	90.29	100.84	107.97	113.50	117.89	81.67	96.97	106.22	112.50	117.15	120.92
1925	72.42	90.40	100.94	108.09	113.62	117.99	81.82	97.06	106.32	112.60	117.28	121.01
1926	72.65	90.51	101.04	108.21	113.73	118.12	81.98	97.15	106.42	112.70	117.40	121.16
1927	73.05	90.67	101.18	108.35	113.84	118.28	82.27	97.27	106.54	112.82	117.53	121.31
1928	73.19	90.75	101.28	108.46	113.93	118.40	82.37	97.34	106.63	112.90	117.63	121.43
1929	73.46	90.87	101.40	108.58	114.05	118.53	82.55	97.44	106.73	113.00	117.74	121.55
1930	73.73	90.98	101.51	108.69	114.19	118.64	82.74	97.53	106.83	113.13	117.84	121.66
1931	74.02	91.11	101.62	108.80	114.32	118.76	82.96	97.63	106.93	113.26	117.94	121.77
1932	74.22	91.22	101.72	108.90	114.45	118.86	83.12	97.72	107.03	113.37	118.04	121.86
1933	74.37	91.31	101.81	108.99	114.56	118.95	83.23	97.79	107.13	113.48	118.17	121.95
1934	74.42	91.37	101.88	109.09	114.65	119.05	83.29	97.85	107.23	113.58	118.29	122.05
1935	74.66	91.49	101.98	109.22	114.76	119.19	83.50	97.95	107.35	113.69	118.42	122.21
1936	74.78	91.57	102.08	109.33	114.85	119.32	83.60	98.02	107.44	113.78	118.53	122.33
1937	74.97	91.67	102.19	109.44	114.95	119.44	83.75	98.12	107.54	113.88	118.64	122.46
1938	75.16	91.77	102.30	109.55	115.06	119.56	83.93	98.21	107.65	113.98	118.75	122.58
1939	75.35	91.87	102.41	109.66	115.20	119.67	84.09	98.31	107.75	114.10	118.84	122.69

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

Year of Birth	Sex and Survival Rate: Male .5	.1	.01	.001	.0001	.00001	Female .5	.1	.01	.001	.0001	.00001
1940	75.44	91.94	102.50	109.75	115.31	119.77	84.17	98.38	107.83	114.21	118.93	122.78
1941	75.59	92.03	102.59	109.84	115.43	119.87	84.30	98.47	107.92	114.33	119.03	122.88
1942	75.79	92.15	102.69	109.94	115.54	119.96	84.47	98.56	108.02	114.45	119.17	122.97
1943	75.92	92.23	102.78	110.04	115.65	120.07	84.59	98.65	108.13	114.55	119.30	123.09
1944	76.03	92.31	102.87	110.15	115.75	120.21	84.70	98.72	108.24	114.65	119.42	123.23
1945	76.13	92.39	102.95	110.26	115.84	120.33	84.81	98.80	108.34	114.75	119.53	123.36
1946	76.28	92.49	103.04	110.37	115.93	120.45	84.95	98.88	108.44	114.85	119.64	123.48
1947	76.40	92.57	103.14	110.48	116.03	120.56	85.08	98.97	108.55	114.94	119.74	123.59
1948	76.47	92.64	103.23	110.57	116.15	120.66	85.15	99.04	108.64	115.04	119.83	123.70
1949	76.55	92.70	103.32	110.66	116.26	120.76	85.23	99.11	108.72	115.16	119.92	123.79
1950	76.65	92.78	103.41	110.76	116.38	120.85	85.33	99.20	108.81	115.27	120.01	123.88
1951	76.73	92.85	103.50	110.84	116.48	120.94	85.41	99.27	108.90	115.38	120.14	123.97
1952	76.80	92.91	103.58	110.93	116.58	121.03	85.48	99.34	108.98	115.48	120.27	124.08
1953	76.88	92.98	103.66	111.01	116.68	121.16	85.56	99.42	109.08	115.59	120.39	124.22
1954	76.97	93.05	103.75	111.12	116.77	121.29	85.64	99.50	109.18	115.68	120.50	124.35
1955	77.03	93.12	103.82	111.23	116.86	121.40	85.71	99.56	109.28	115.78	120.60	124.46
1956	77.09	93.19	103.90	111.33	116.95	121.51	85.78	99.64	109.37	115.86	120.70	124.57
1957	77.15	93.25	103.97	111.42	117.04	121.61	85.84	99.70	109.46	115.95	120.79	124.67
1958	77.20	93.31	104.05	111.51	117.15	121.71	85.89	99.77	109.55	116.05	120.88	124.76
1959	77.27	93.38	104.14	111.61	117.27	121.80	85.97	99.83	109.64	116.16	120.97	124.84
1960	77.33	93.45	104.23	111.70	117.38	121.88	86.04	99.90	109.73	116.27	121.08	124.91
1961	77.41	93.51	104.32	111.78	117.48	121.96	86.10	99.97	109.82	116.38	121.20	124.97
1962	77.46	93.57	104.40	111.87	117.58	122.04	86.17	100.04	109.90	116.48	121.30	125.04
1963	77.52	93.64	104.48	111.95	117.67	122.14	86.22	100.11	109.98	116.58	121.39	125.13
1964	77.58	93.70	104.57	112.04	117.76	122.23	86.29	100.19	110.08	116.68	121.47	125.20
1965	77.64	93.76	104.65	112.14	117.84	122.31	86.35	100.26	110.17	116.77	121.54	125.27
1966	77.72	93.83	104.73	112.25	117.91	122.38	86.42	100.34	110.27	116.85	121.61	125.34
1967	77.80	93.90	104.81	112.35	117.98	122.45	86.50	100.41	110.37	116.92	121.67	125.39
1968	77.86	93.96	104.88	112.44	118.06	122.51	86.57	100.49	110.47	116.98	121.72	125.44
1969	77.94	94.03	104.96	112.54	118.14	122.57	86.64	100.56	110.56	117.06	121.77	125.49
1970	78.01	94.10	105.04	112.62	118.22	122.62	86.71	100.63	110.65	117.14	121.81	125.53
1971	78.08	94.17	105.14	112.70	118.28	122.66	86.79	100.71	110.73	117.21	121.85	125.57
1972	78.14	94.23	105.22	112.77	118.35	122.71	86.86	100.78	110.81	117.27	121.89	125.60
1973	78.21	94.30	105.31	112.83	118.40	122.74	86.92	100.85	110.88	117.32	121.92	125.63
1974	78.28	94.37	105.40	112.89	118.46	122.78	86.99	100.92	110.94	117.37	121.95	125.66
1975	78.34	94.43	105.48	112.94	118.50	122.81	87.06	100.99	111.00	117.42	121.97	125.69
1976	78.41	94.50	105.56	112.99	118.55	122.84	87.12	101.06	111.06	117.46	122.00	125.71
1977	78.48	94.57	105.64	113.05	118.59	122.87	87.19	101.14	111.13	117.50	122.03	125.73
1978	78.54	94.63	105.70	113.11	118.62	122.89	87.25	101.22	111.18	117.53	122.06	125.75
1979	78.60	94.69	105.76	113.16	118.66	122.92	87.32	101.29	111.23	117.56	122.09	125.77

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

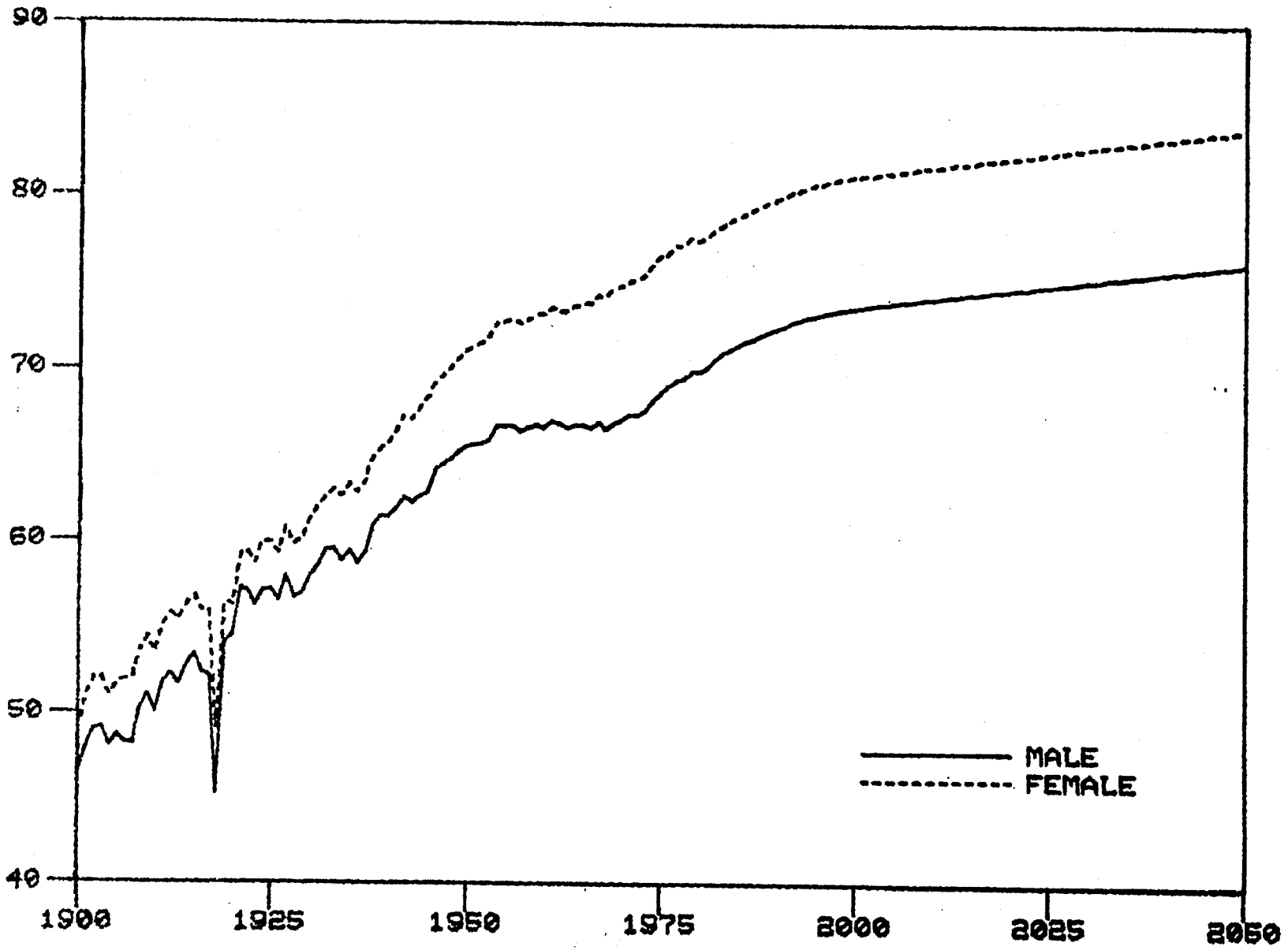


Chart 1b.
Life Expectancy at Age 65, by Sex and Calendar Year

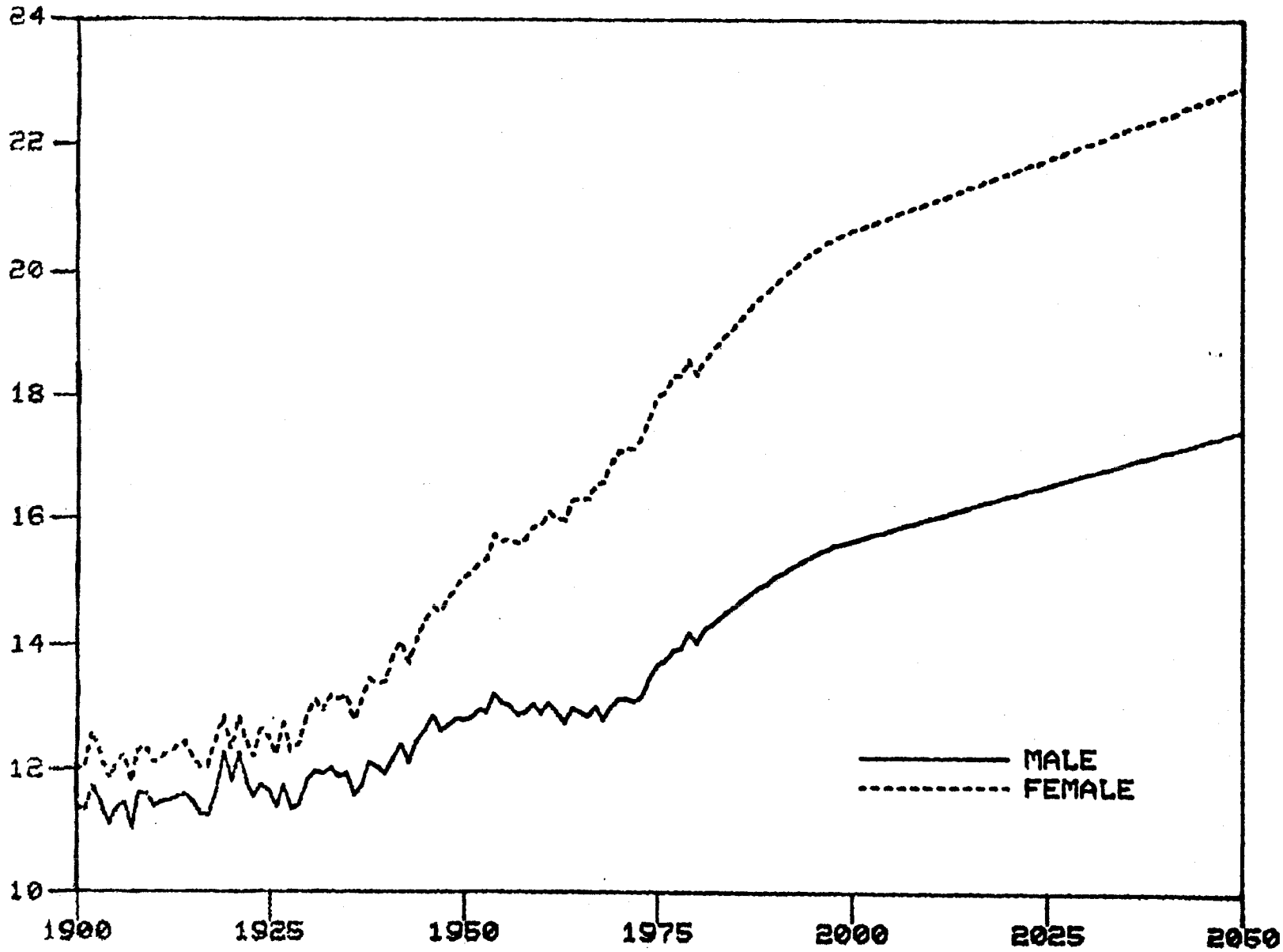


Chart 2a.

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

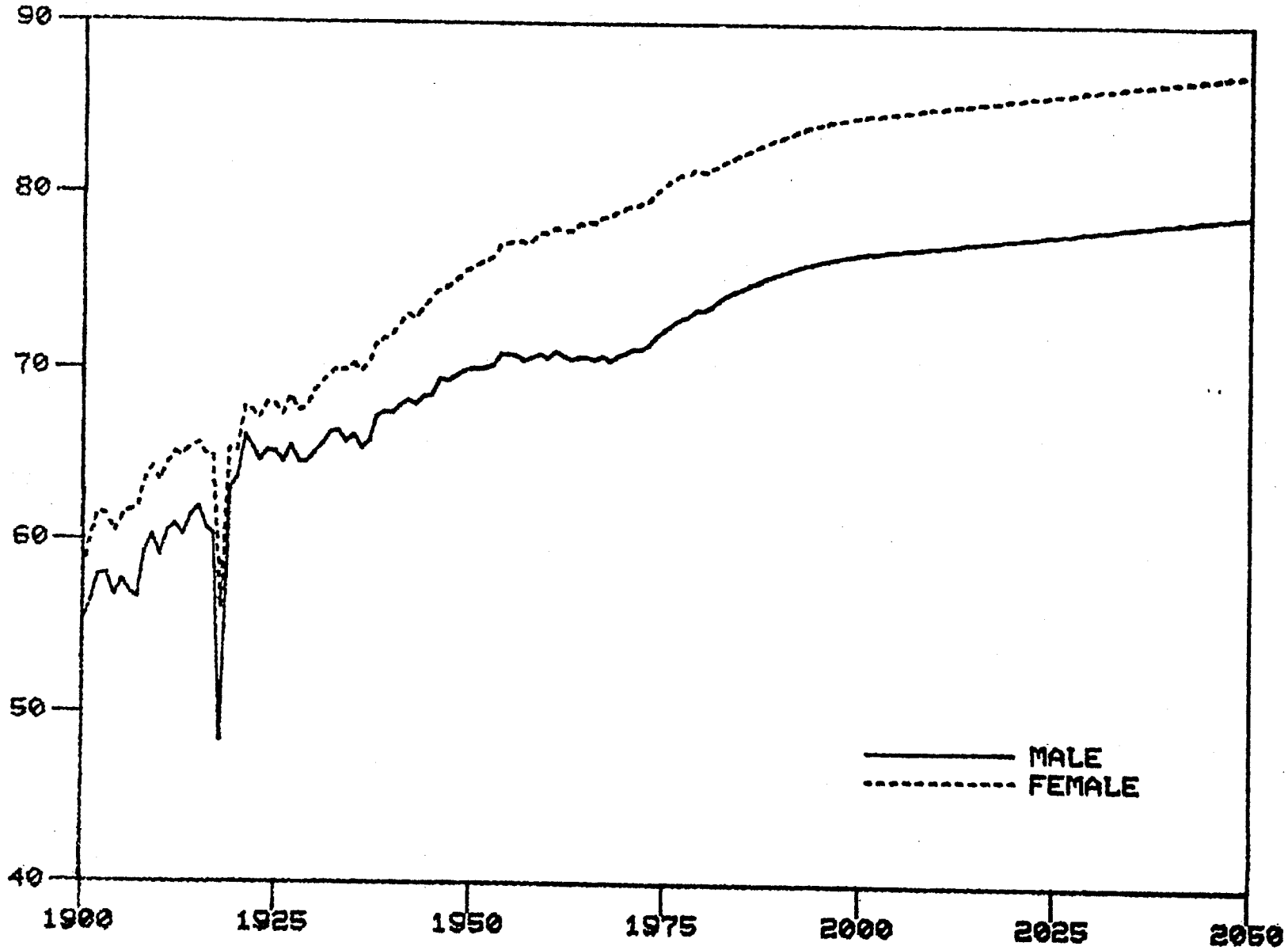


Chart 2b.

Life Endurancy at Survival Rate 1/100000, by Sex and Calendar Year

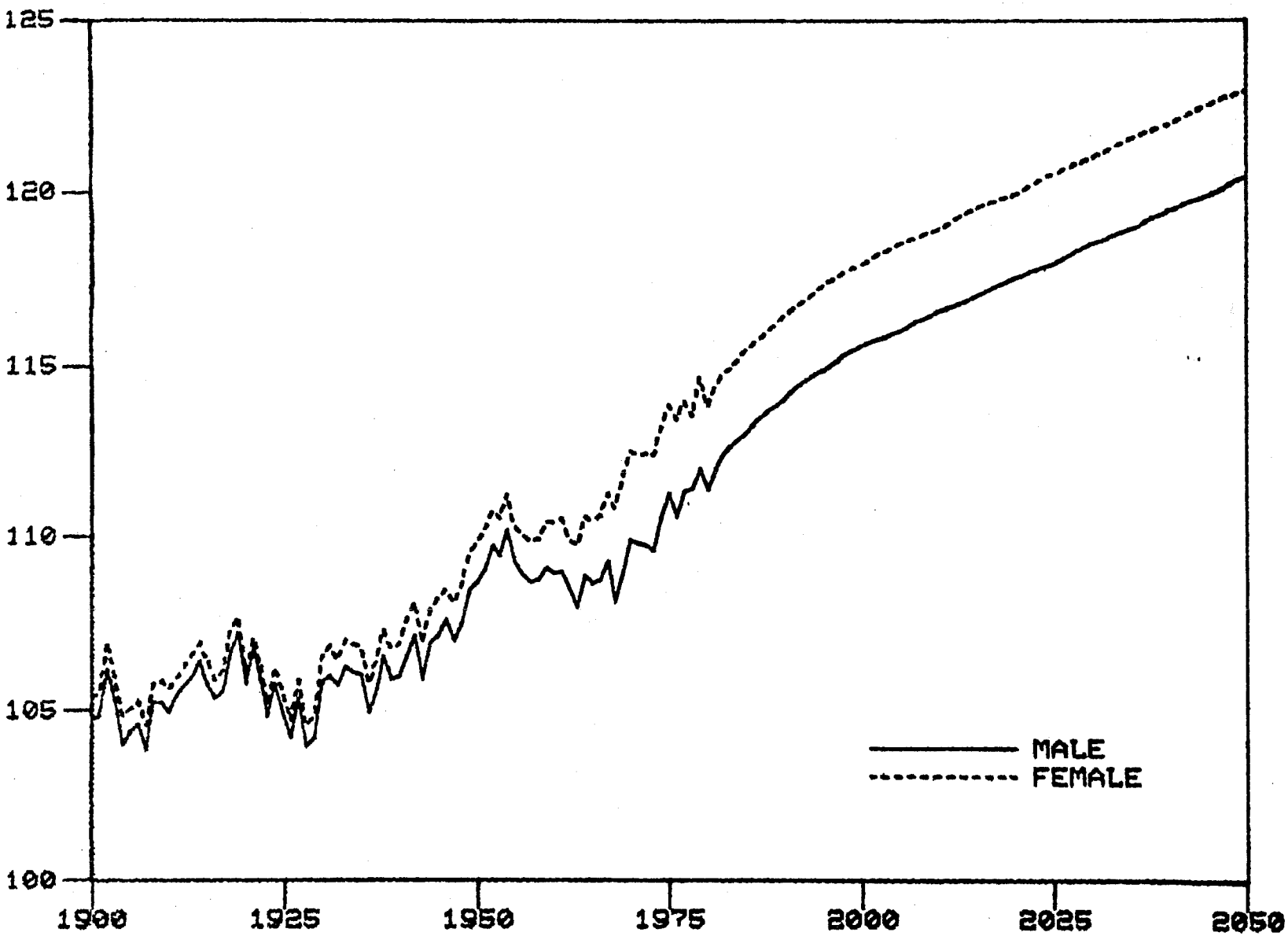
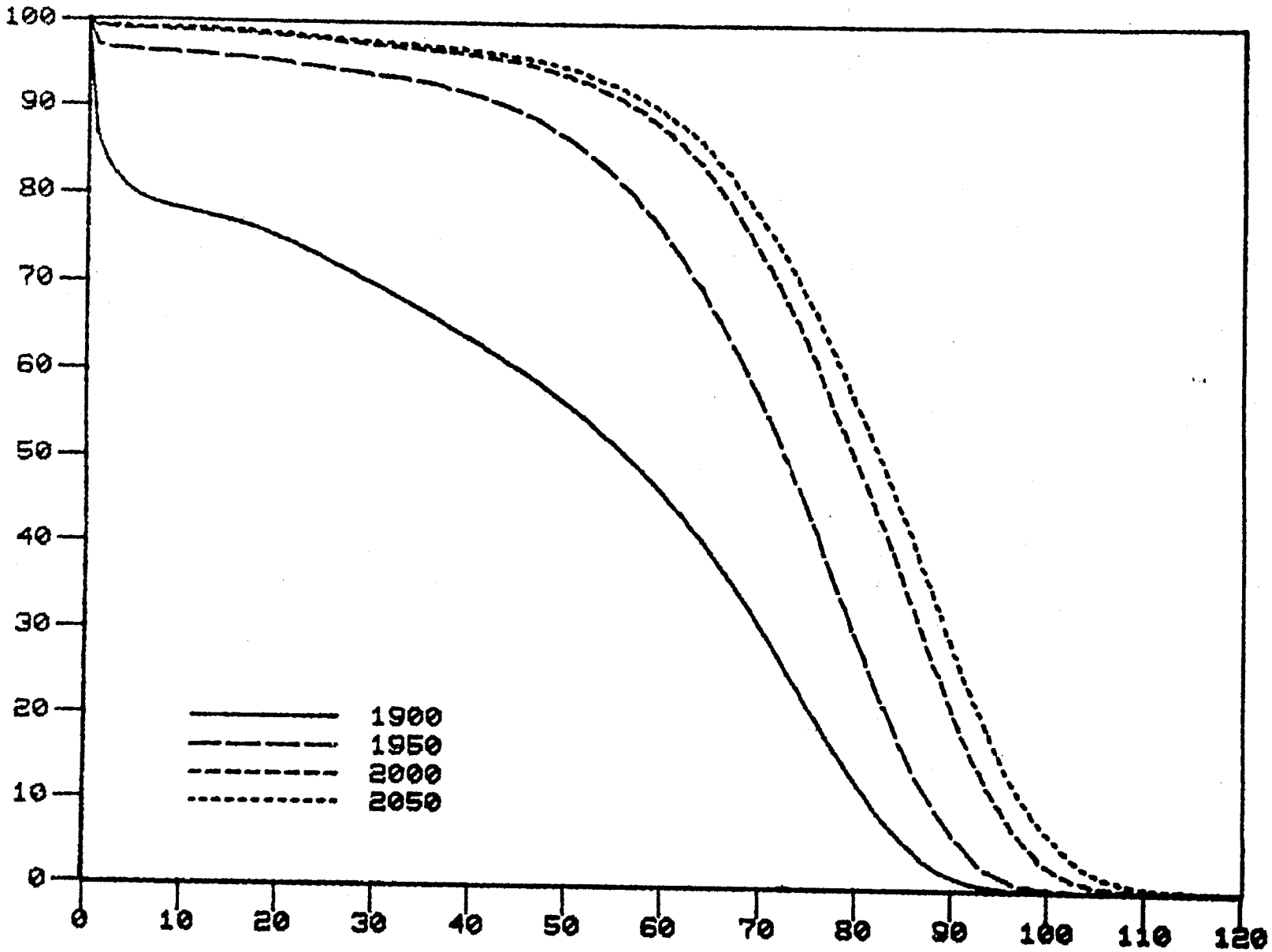


Chart 3.
Survivorship Group in Selected Calendar Years, by Age



G. References

1. "Accuracy of Data for Selected Population Characteristics as Measured by the 1970 CPS - Census Match," Bureau of the Census, 1970 Census of Population and Housing, Evaluation and Research Program No. PHC(E)-11, 1975.

2. Bayo, Francisco R. and Faber, Joseph F., "Mortality Experience around Age 100," Transactions of the Society of Actuaries, Vol. 35, 1983.

3. Beers, Henry S., "Six-Term Formulas for Routine Actuarial Interpolation," Record of the American Institute of Actuaries, Vol. 34, 1945.

4. Hambright, Thea Zelman, "Comparability of Age on the Death Certificate and Matching Census Records, United States, May-August 1960, "National Center for Health Statistics, Vital and Health Statistics, Series 2, No. 29, 1968.

5. Keyfitz, Nathan, "A Life Table that Agrees with the Data," Journal of the American Statistical Association, Vol. 61, No. 314, June 1966.

6. "Methodology of the National, Regional, and State Life Tables for the United States: 1959-61," National Center for Health Statistics, Life Tables: 1959-61, Vol. I, No. 4, 1967.

7. "Results of Survey of Death Registration Completeness," Tennessee Department of Public Health, The Spotlight, January 1954.

8. Robinson, J. Gregory, "Estimating the Approximate Size of the Illegal Alien Population in the United States by the Comparative Trend Analysis of Age-Specific Death Rates," Demography, May 1980.

9. Siegel, Jacob S., "Estimates of Coverage of the Population by Sex, Race, and Age - Demographic Analysis," Bureau of the Census, 1970 Census of Population and Housing, Evaluation and Research Program No. PHC(E)-4, 1974.

10. Wilkin, John C., "Recent Trends in the Mortality of the Aged," Transactions of the Society of Actuaries, Vol. 33, 1981.

☆U.S. GOVERNMENT PRINTING OFFICE: 1984-421-185/2126