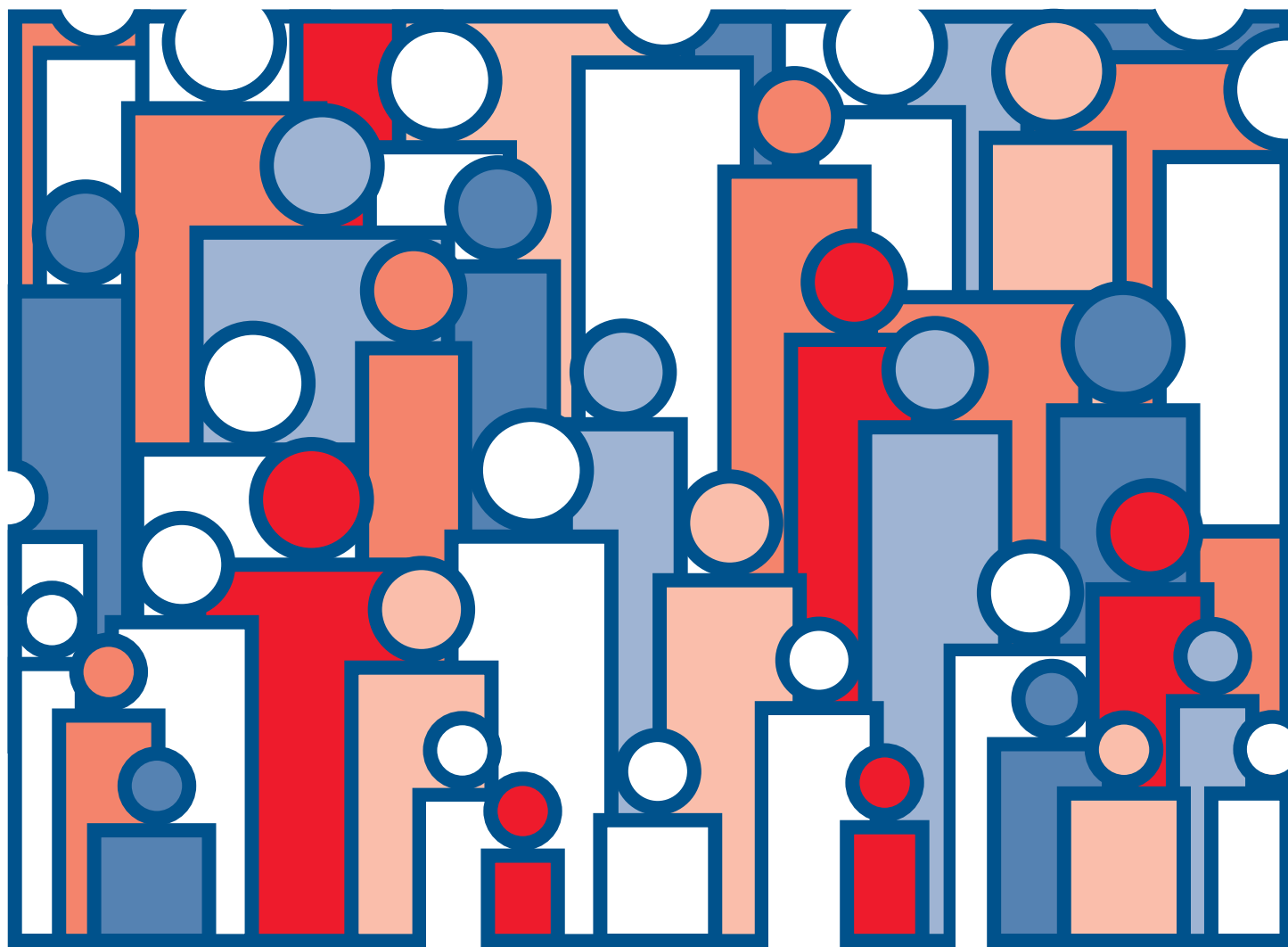




U.S. Decennial Life Tables for 1989-91

Volume II, State Life Tables Number 16, Iowa

From the CENTERS FOR DISEASE CONTROL AND PREVENTION/National Center for Health Statistics



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention
National Center for Health Statistics



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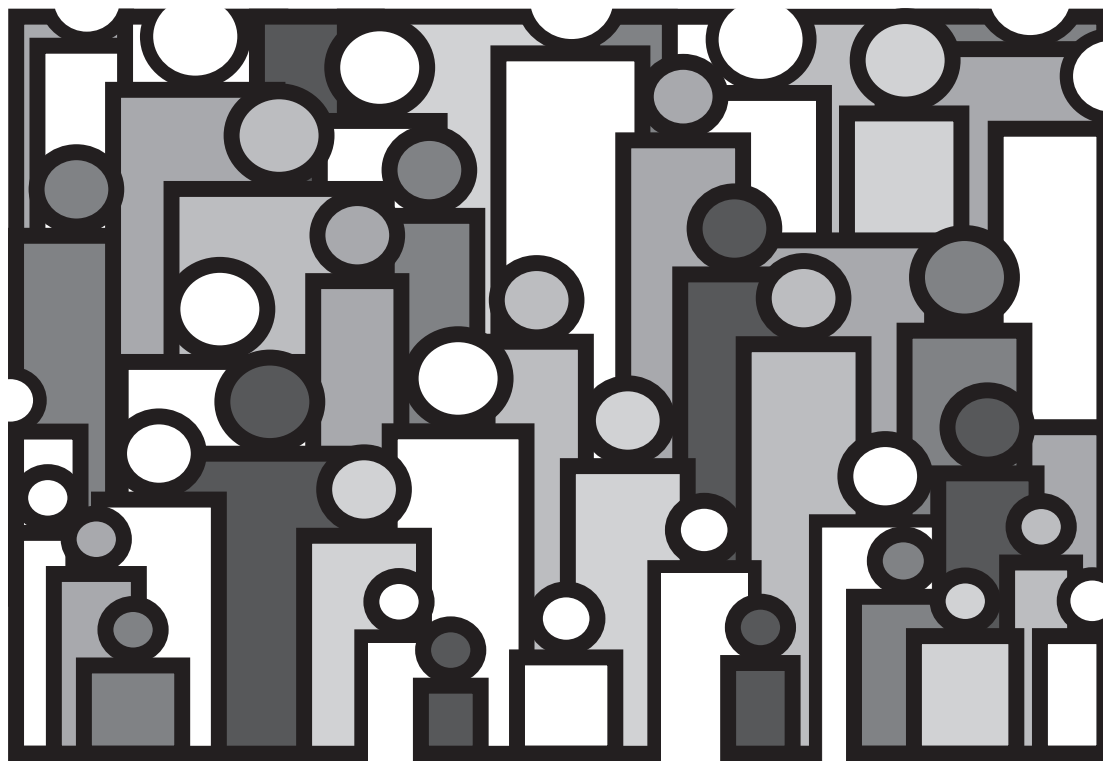
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U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention
National Center for Health Statistics

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Iowa Life Tables: 1989–91

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Abstract

The life tables in this report are current life tables for Iowa based on age-specific death rates for the period 1989–91. The death rates were calculated using data from the 1990 census of population and deaths occurring in the United States to residents of Iowa in the 3 years 1989–91. Presented are tables for the white population, the population other than white, and the black population, separately by sex and for both sexes combined, and also for the total population and for total males and total females. Standard errors of the probability of dying and of life expectancy are also provided.

Introduction

The life tables in this report are current life tables for Iowa based on age-specific death rates for the period 1989–91. With the exception of those aged 95 years and over (and to a lesser extent those aged 85–94 years), the death rates were calculated using data from the 1990 census of population and deaths occurring in the United States to residents of Iowa in the 3 years 1989–91. Other publications in this decennial series present life tables for the United States and the other individual States. Generally, these reports show life tables calculated for the white population, the population other than white, and the black population separately by sex and for both sexes combined. Each of these reports also shows life tables for the total population, for total males, and for total females. Standard errors of the probability of dying and of life expectancy are also provided. However, life tables for the population other than white and for the black population in a State are not published when the total number of deaths for either males or females during the 3-year period is less than 700.

These life tables are the most recent in a series for the States that began with the 1939–41 period. Each of the tables in the series is based on a census of population and deaths in a 3-year period centered on the census year. Because State life tables are not currently produced on an annual basis, the decennial life tables are the only source of State life expectancy data available at the National Center for Health Statistics (NCHS).

Keywords: Iowa • decennial life tables • 1989–91 • life expectancy

This report is 1 of 51 reports containing life tables for the individual States and the District of Columbia. A separate report describes the methods and formulas by which these life tables were prepared in *U.S. Decennial Life Tables for 1989–91, Volume 1, Number 2, Methodology of the National and State Life Tables* (1).

Methodology

The general methodology, with a few modifications, used in preparing these life tables was developed by Thomas N. E. Greville for the 1939–41 decennial life tables (2). The life tables are based on a complete count of deaths to residents of Iowa that occurred anywhere in the United States during the 3 years of 1989, 1990, and 1991 and on the 1990 census of population for Iowa. However, sometimes the observed death rates that these data produced did not meet certain well-established criteria, such as steadily increasing mortality with increasing age. For example, when the pattern of age-specific death rates at some ages was jagged rather than smooth or when the rates by race or sex were inconsistent, the observed death rates were adjusted slightly by moving deaths from one age group to another within the race-sex group. The total number of deaths in a race-sex group was never changed. Certain other adjustments were made. In accordance with standard practice, deaths for which age was not stated were allocated proportionately among the various age groups.

The population data used differ from the official data published by the U.S. Bureau of the Census because of age reporting problems in the 1990 census. Age was based on the respondents' direct reports of age at last birthday in the 1990 census. It was apparent that many respondents had reported their age at either the time of completion of the census form or at the time of the interview by an enumerator, which could have occurred several months after the April 1 reference date. As a result, reported age was biased upward and had to be modified.

Between the ages of 5 and 94 years, death rates were calculated using the total number of deaths in 1989–91 and 3 times the population shown in the 1990 census. However, since population counts at ages under 2 years are considered to be less reliable than those at other ages, life-table values at ages under 2 years were derived from the reported numbers of births for each of the years 1987 to 1991. At ages 2–4 years, the denominator of the death rates used the populations at ages

$x-1$, x , and $x+1$ (instead of 3 times the population at age x). Death rates at ages 95 years and over, where the data from the census and from registered deaths are scanty and the accuracy of the reporting of age is not as good as at younger ages, are based on data from the Medicare program. However, when the data from the Medicare program were judged to be unreliable (usually after age 97), an algorithm was used to produce the death rates. The new algorithm, which differed from the one used for the 1979–81 decennial life tables, incremented the death rates more rapidly resulting in lower life expectancies at the extreme ages than in the previous reports. The rates based on the Medicare program and on the algorithm are differentiated by race and sex but not by State, so the same rates are used for each State. As a consequence, the probabilities of dying and the life expectancies at ages 85 years and over may fail to adequately reflect variation in mortality among the States, but such variation is in general smaller than differences associated with race and sex. Death rates at ages 85–94 years were adjusted to provide a smooth transition between the death rates based on the census and registered deaths and those derived from the Medicare program.

The population and death statistics at ages under 85 years are known to be subject to reporting errors, but these were not considered to be serious enough to require adjustment prior to the calculation of the life tables. In some instances, fluctuations due to small numbers of deaths produced anomalous life-tables values, which were eliminated by minor redistribution of deaths by age. For a complete description of the methodology used in preparing these life tables, see *U.S. Decennial Life Tables for 1989–91, Volume 1, Number 2, Methodology of the National and State Life Tables* (1).

Results and discussion

The life tables in this report are current life tables and are based on age-specific death rates for the period 1989–91. They may also be characterized as “cross-sectional.” They assume that a hypothetical cohort is traced from birth until the death of the last survivor and that it is subject throughout its existence to the age-specific death rates observed for 1989–91. For example, [table 3](#) is a life table for females. This table shows the progression of a cohort starting with 100,000 live births who were subjected to the average annual death rates observed among females in Iowa in the 3-year period 1989–91 during its passage through successive years of age.

Column 7 of [table 3](#) shows the average number of years of life remaining to those in the cohort who attain each birthday. This average remaining lifetime is commonly called the expectation of life, and the expectation of life at birth is frequently used as a measure of comparative longevity. According to the 1989–91 life tables for Iowa, the expectation of life at birth is 73.89 years for total males and 80.54 years for total females. Among the 50 States and the District of Columbia in the expectation of life at birth for the total population, Iowa ranks 5th.

The ranking table shows the average lifetime (or expectation of life at birth) by race and sex for the population of the

United States, each State, and the District of Columbia. The States are ranked using the life expectancy at birth for the total population of the State.

These life tables are based on a complete count of resident deaths in Iowa during the 3 years 1989, 1990, and 1991. As such, they are not subject to sampling error. However, even complete counts may be considered as one of a large series of possible results that could have arisen under the same circumstances. This type of variation is known as random error. The standard errors shown in this report reflect random error only, not other errors such as misreporting of age on death certificates or in the census.

The probabilities of dying and the expectation of life presented in this report are “point estimates.” They do not give the reader an indication of how accurate they are. Therefore standard errors of these two measures are also presented. Standard errors can be used to develop confidence intervals within which the “point estimates” are believed to lie. Standard errors of the probability of dying and of life expectancy contain six and three decimal places, respectively, and are shown in [tables 7](#) and [8](#). In both cases, the standard errors contain one place more than the corresponding variable in the life tables. In computing confidence intervals, the limits are rounded to the same number of decimal places that the variable has in the life table.

Even though 68 percent confidence intervals are rarely used because of their high degree of uncertainty, they are shown here to demonstrate the method of construction of confidence intervals. To obtain a 68 percent confidence interval for the probability of dying at any age, take the point estimate from column 2 of the appropriate life table and add and subtract one standard error from the table that gives the standard errors of the probability of dying ([table 7](#)). The 95 percent confidence interval is obtained by adding and subtracting two standard errors. For example, the probability that a 50-year-old white female will die before her 51st birthday is 0.00275 with a standard error of 0.000263. Therefore, the 68 percent confidence interval is from 0.00249 to 0.00301 and the 95 percent confidence interval is from 0.00222 to 0.00328. The life expectancy of a 50 year-old white female is 32.73 years with a standard error of 0.055 years. The 68 percent confidence interval for the life expectancy is therefore from 32.68 to 32.79 years and the 95 percent confidence interval is from 32.62 to 32.84 years.

Explanation of the columns of the life table

Column 1—Age interval (x to $x+1$)—The age interval shown in column 1 is the interval of 1 year between the two exact ages indicated. For instance, “21–22” indicates the interval between the 21st birthday and the 22d, in other words, the 22d year of life.

Column 2—Proportion dying (q_x)—This column shows the proportion of the members of the life-table cohort alive at the beginning of the indicated year of age who will die before reaching the next birthday on the basis of the mortality rates of

1989–91 in Iowa. For example, for females who reach age 21, the proportion dying before reaching their 22d birthday is 0.00046—out of every 1,000 female babies surviving to age 21, 0.46 will die before reaching their 22d birthday.

Column 3—Number surviving (l_x)—This column shows the number of persons, starting with a cohort of 100,000 live births, who will survive to the birthday marking the beginning of the indicated year of age. Thus out of 100,000 female babies born alive in the cohort of [table 3](#), 99,315 will complete the first year of life and enter the second, 98,758 will reach age 21, and 74,012 will live to age 75.

Column 4—Number dying (d_x)—This column shows the number dying in each successive age interval out of 100,000 live births. Thus out of 100,000 females born alive, 685 will die in the first year of life, 45 in the 22d year, and 2,055 in the 76th year. Each figure in column 4 is the difference between two successive figures in column 3.

Columns 5 and 6—Stationary population (L_x and T_x)—Suppose that a group of 100,000 persons like that assumed in columns 3 and 4 is born every year, and that the proportion dying in each such group in each age interval throughout the lives of the members is exactly that shown in column 2. If there were no migration and if the births were evenly distributed over the year, the survivors of these births would constitute what is called a stationary population, because in such a population the number of persons living in any given age interval would never change. When an individual left an age interval, whether by death or growing older and entering the next higher age interval, his place would immediately be taken by someone entering from the next lower age interval. Thus a census taken at any time in such a stationary community would always show the same total population and the same numerical distribution of that population among the various age intervals. In such a stationary population supported by 100,000 annual births, column 3 shows the number of persons who, each year, will reach the exact age that marks the beginning of the age interval indicated in column 1, and column 4 shows the number of persons who will die each year in that year of age interval.

Column 5, L_x , shows the number of females in the stationary population in the indicated year of age. For example, the figure shown in [table 3](#) for the year of age 21–22 is 98,736. This means that in a stationary population supported by

100,000 annual births, and with proportions dying in each age interval always in accordance with column 2, a census taken on any date would show 98,736 persons at age 21 (that is, between exact ages 21 and 22 years).

Column 6, T_x , shows the total number of persons in the stationary population in the indicated year of age and all subsequent years of age. For example, in the stationary population of females described in the preceding paragraph, column 6 shows that there would be at any given moment a total of 5,973,844 persons who had reached their 21st birthday. The population at all ages 0 and above (in other words, the total female population of the stationary community) would be 8,054,156.

Column 7—Average remaining lifetime (${}^o e_x$)—The average remaining lifetime (also called expectation of life) at any given age is the average number of years remaining to be lived by those surviving to that age, on the basis of a given set of age-specific rates of dying. In order to relate these figures to the preceding columns of the life table, it is necessary to observe that the figures in column 5 of the life tables can also be interpreted in terms of a single life-table cohort without introducing the concept of the stationary population. From this point of view, each figure in column 5 represents the total time in years lived between two indicated birthdays by all those reaching the younger age among the survivors of a cohort of 100,000 live births. Thus the figure of 98,736 for females in Iowa in the year of age 21–22 is the total number of years of life lived between their 21st and 22d birthdays by the 98,758 (column 3) who reached their 21st birthday out of the original cohort of 100,000 females born alive. The corresponding figure (5,973,844) in column 6 is the total number of years lived after attaining age 21 by the 98,758 reaching that exact age. This number of years divided by the number of persons (5,973,844 divided by 98,758) gives 60.49 years as the average remaining lifetime at age 21 for females in Iowa.

References

1. U.S. decennial life tables for 1989–91, volume I, number 2, methodology of the national and State life tables. In progress.
2. Greville TNE. United States life tables and actuarial tables, 1939–41. Washington: U.S. Government Printing Office. 1947.

Average lifetime in years by race and sex: United States and each State in rank order, 1989-91

Rank	Area	Total			White			All other					
								Total			Black		
		Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
1	Hawaii	78.21	75.37	81.26	77.92	75.12	81.09	78.40	75.49	81.48	*	*	*
2	Minnesota	77.76	74.53	80.85	77.97	74.78	81.02	73.05	69.46	76.80	*	*	*
3	Utah	77.70	74.93	80.38	77.77	75.00	80.44	*	*	*	*	*	*
4	North Dakota	77.62	74.35	80.99	77.99	74.74	81.32	*	*	*	*	*	*
5	Iowa	77.29	73.89	80.54	77.38	73.98	80.62	*	*	*	*	*	*
6	Colorado	76.96	73.79	80.01	77.06	73.88	80.13	75.71	72.63	78.61	72.41	68.96	75.89
7	Nebraska	76.92	73.57	80.17	77.21	73.87	80.44	71.14	67.64	74.52	*	*	*
8	Connecticut	76.91	73.62	79.97	77.44	74.25	80.37	72.31	67.82	76.61	70.84	66.04	75.44
8	South Dakota	76.91	73.17	80.77	77.91	74.30	81.59	*	*	*	*	*	*
10	Idaho	76.88	73.88	79.93	76.89	73.90	79.93	*	*	*	*	*	*
11	Wisconsin	76.87	73.61	80.03	77.18	73.99	80.27	72.37	68.27	76.25	70.96	66.42	75.27
12	Washington	76.82	73.84	79.74	76.92	73.97	79.81	76.09	72.72	79.59	71.34	67.91	75.58
13	Kansas	76.76	73.40	79.99	77.06	73.72	80.25	72.77	69.25	76.26	71.22	67.48	75.04
14	Massachusetts	76.72	73.32	79.80	76.90	73.54	79.95	75.08	71.29	78.60	72.45	68.17	76.50
14	New Hampshire	76.72	73.52	79.77	76.68	73.48	79.74	*	*	*	*	*	*
16	Rhode Island	76.54	73.00	79.77	76.80	73.31	79.97	*	*	*	*	*	*
16	Vermont	76.54	73.29	79.68	76.50	73.25	79.65	*	*	*	*	*	*
18	Oregon	76.44	73.21	79.67	76.51	73.28	79.73	75.24	72.02	78.45	*	*	*
19	Maine	76.35	72.98	79.61	76.35	72.98	79.61	*	*	*	*	*	*
20	Montana	76.23	73.05	79.49	76.72	73.59	79.92	*	*	*	*	*	*
21	Wyoming	76.21	73.16	79.29	76.34	73.27	79.46	*	*	*	*	*	*
22	Arizona	76.10	72.66	79.58	76.42	73.04	79.84	72.76	68.89	76.81	70.84	67.20	74.90
23	California	75.86	72.53	79.19	75.92	72.61	79.26	75.79	72.34	79.18	69.65	65.43	74.07
24	Florida	75.84	72.10	79.60	76.82	73.19	80.46	69.82	65.40	74.19	68.77	64.26	73.28
25	New Mexico	75.74	72.20	79.33	76.08	72.66	79.53	73.41	68.97	77.93	*	*	*
26	New Jersey	75.42	72.16	78.49	76.46	73.37	79.34	70.73	66.59	74.66	68.47	63.87	72.88
27	Indiana	75.39	71.99	78.62	75.82	72.44	79.03	70.76	66.99	74.35	69.80	65.87	73.56
28	Pennsylvania	75.38	71.91	78.66	76.15	72.81	79.28	69.34	64.69	73.78	68.27	63.33	73.02
	United States	75.37	71.83	78.81	76.13	72.72	79.45	71.25	66.97	75.39	69.16	64.47	73.73
29	Ohio	75.32	71.99	78.45	75.93	72.70	78.95	70.86	66.70	74.82	70.15	65.80	74.29
30	Missouri	75.25	71.54	78.82	76.02	72.43	79.48	69.65	65.00	74.07	68.81	63.87	73.52
31	Virginia	75.22	71.77	78.56	76.34	73.04	79.48	71.17	67.03	75.27	70.05	65.75	74.37
32	Texas	75.14	71.41	78.87	75.75	72.08	79.42	71.25	67.08	75.38	69.79	65.36	74.23
33	Oklahoma	75.10	71.63	78.49	75.21	71.76	78.59	74.81	71.17	78.21	70.85	67.10	74.48
34	Michigan	75.04	71.71	78.24	76.18	73.06	79.14	69.22	64.68	73.65	68.49	63.68	73.18
35	Illinois	74.90	71.34	78.31	76.16	72.83	79.33	69.25	64.58	73.79	67.46	62.41	72.39
36	Alaska	74.83	71.60	78.60	75.83	72.82	79.40	71.67	67.65	76.17	*	*	*
37	Maryland	74.79	71.31	78.13	76.30	73.20	79.23	70.76	66.27	75.15	69.69	64.99	74.31
38	Delaware	74.76	71.63	77.74	75.76	72.75	78.62	70.06	66.39	73.63	69.26	65.51	72.91
39	New York	74.68	70.86	78.32	75.61	72.01	79.03	71.53	66.70	75.97	69.33	63.86	74.35
40	North Carolina	74.48	70.58	78.27	75.89	72.21	79.44	69.83	64.96	74.55	69.38	64.38	74.24
41	Kentucky	74.37	70.72	77.97	74.65	71.01	78.24	70.79	66.78	74.63	70.16	66.06	74.13
42	Arkansas	74.33	70.54	78.13	75.20	71.54	78.89	69.63	64.87	74.13	68.93	64.03	73.58
43	Tennessee	74.32	70.38	78.18	75.27	71.38	79.10	69.43	64.99	73.59	68.97	64.41	73.24
44	West Virginia	74.26	70.53	77.93	74.37	70.66	78.02	71.20	66.77	75.46	69.75	65.00	74.36
45	Nevada	74.18	70.96	77.76	74.44	71.26	77.99	72.74	69.15	76.42	*	*	*
46	Alabama	73.64	69.59	77.61	75.01	71.12	78.85	69.59	64.79	74.05	69.23	64.37	73.76
47	Georgia	73.61	69.65	77.46	75.24	71.46	78.94	69.21	64.49	73.65	68.79	63.98	73.34
48	South Carolina	73.51	69.59	77.34	75.33	71.62	78.97	69.09	64.37	73.57	68.82	64.07	73.35
49	Louisiana	73.05	69.10	76.93	74.87	71.15	78.54	68.99	64.33	73.43	68.62	63.84	73.16
50	Mississippi	73.03	68.90	77.10	74.78	70.74	78.82	69.54	64.84	73.91	69.41	64.66	73.82
51	District Of Columbia	67.99	61.97	74.23	76.09	71.36	81.06	64.97	58.14	72.03	64.44	57.53	71.61

* Figure does not meet standards of reliability and precision.

Detailed tables

Table 1. Life table for the total population: Iowa, 1989–91

Age in years	Proportion dying	Of 100,000 born alive		Stationary population		Average remaining lifetime
		Number living at beginning of year of age (3)	Number dying during year of age (4)	In year of age (5)	In this year of age and all subsequent years (6)	Average number of years of life remaining at beginning of year of age (7)
Period of life between two exact ages stated (1)	Proportion of persons alive at beginning of year of age dying during year (2)	l_x	d_x	L_x	T_x	${}^o e_x$
x to x+1	q_x					
0–1	.00815	100,000	815	99,368	7,729,442	77.29
1–2	.00065	99,185	64	99,153	7,630,074	76.93
2–3	.00042	99,121	42	99,100	7,530,921	75.98
3–4	.00034	99,079	33	99,063	7,431,821	75.01
4–5	.00028	99,046	29	99,031	7,332,758	74.03
5–6	.00025	99,017	25	99,005	7,233,727	73.06
6–7	.00024	98,992	23	98,981	7,134,722	72.07
7–8	.00022	98,969	22	98,958	7,035,741	71.09
8–9	.00020	98,947	20	98,937	6,936,783	70.11
9–10	.00018	98,927	17	98,919	6,837,846	69.12
10–11	.00016	98,910	16	98,902	6,738,927	68.13
11–12	.00016	98,894	15	98,887	6,640,025	67.14
12–13	.00019	98,879	19	98,869	6,541,138	66.15
13–14	.00027	98,860	27	98,846	6,442,269	65.17
14–15	.00039	98,833	38	98,814	6,343,423	64.18
15–16	.00052	98,795	51	98,770	6,244,609	63.21
16–17	.00063	98,744	63	98,712	6,145,839	62.24
17–18	.00073	98,681	72	98,645	6,047,127	61.28
18–19	.00079	98,609	78	98,570	5,948,482	60.32
19–20	.00083	98,531	81	98,491	5,849,912	59.37
20–21	.00086	98,450	85	98,407	5,751,421	58.42
21–22	.00089	98,365	87	98,322	5,653,014	57.47
22–23	.00090	98,278	89	98,234	5,554,692	56.52
23–24	.00090	98,189	88	98,145	5,456,458	55.57
24–25	.00089	98,101	87	98,057	5,358,313	54.62
25–26	.00087	98,014	85	97,971	5,260,256	53.67
26–27	.00085	97,929	83	97,888	5,162,285	52.71
27–28	.00084	97,846	83	97,804	5,064,397	51.76
28–29	.00085	97,763	83	97,721	4,966,593	50.80
29–30	.00088	97,680	86	97,637	4,868,872	49.85
30–31	.00090	97,594	88	97,550	4,771,235	48.89
31–32	.00093	97,506	90	97,461	4,673,685	47.93
32–33	.00096	97,416	94	97,369	4,576,224	46.98
33–34	.00100	97,322	97	97,273	4,478,855	46.02
34–35	.00105	97,225	103	97,174	4,381,582	45.07
35–36	.00111	97,122	108	97,068	4,284,408	44.11
36–37	.00118	97,014	114	96,957	4,187,340	43.16
37–38	.00125	96,900	121	96,839	4,090,383	42.21
38–39	.00133	96,779	129	96,715	3,993,544	41.26
39–40	.00141	96,650	136	96,582	3,896,829	40.32
40–41	.00151	96,514	145	96,441	3,800,247	39.38
41–42	.00162	96,369	157	96,291	3,703,806	38.43
42–43	.00175	96,212	168	96,128	3,607,515	37.50
43–44	.00190	96,044	182	95,953	3,511,387	36.56
44–45	.00207	95,862	199	95,763	3,415,434	35.63
45–46	.00229	95,663	218	95,554	3,319,671	34.70
46–47	.00254	95,445	243	95,323	3,224,117	33.78
47–48	.00282	95,202	268	95,068	3,128,794	32.86
48–49	.00311	94,934	295	94,787	3,033,726	31.96
49–50	.00341	94,639	323	94,477	2,938,939	31.05
50–51	.00375	94,316	353	94,140	2,844,462	30.16
51–52	.00414	93,963	390	93,768	2,750,322	29.27
52–53	.00458	93,573	428	93,360	2,656,554	28.39
53–54	.00505	93,145	470	92,910	2,563,194	27.52
54–55	.00557	92,675	516	92,416	2,470,284	26.66

Table 1. Life table for the total population: Iowa, 1989–91—Con.

Age in years	Proportion dying	Of 100,000 born alive		Stationary population		Average remaining lifetime
		Number living at beginning of year of age (3)	Number dying during year of age (4)	In year of age (5)	In this year of age and all subsequent years (6)	Average number of years of life remaining at beginning of year of age (7)
Period of life between two exact ages stated (1)	Proportion of persons alive at beginning of year of age dying during year (2)	l_x	d_x	L_x	T_x	${}^o e_x$
x to x+1	q_x					
55–56	.00614	92,159	566	91,876	2,377,868	25.80
56–57	.00677	91,593	620	91,283	2,285,992	24.96
57–58	.00752	90,973	684	90,631	2,194,709	24.12
58–59	.00839	90,289	758	89,911	2,104,078	23.30
59–60	.00935	89,531	837	89,112	2,014,167	22.50
60–61	.01033	88,694	916	88,236	1,925,055	21.70
61–62	.01133	87,778	995	87,281	1,836,819	20.93
62–63	.01237	86,783	1,074	86,246	1,749,538	20.16
63–64	.01349	85,709	1,156	85,131	1,663,292	19.41
64–65	.01470	84,553	1,243	83,932	1,578,161	18.66
65–66	.01599	83,310	1,332	82,644	1,494,229	17.94
66–67	.01735	81,978	1,423	81,267	1,411,585	17.22
67–68	.01882	80,555	1,516	79,797	1,330,318	16.51
68–69	.02043	79,039	1,614	78,232	1,250,521	15.82
69–70	.02221	77,425	1,720	76,565	1,172,289	15.14
70–71	.02412	75,705	1,826	74,793	1,095,724	14.47
71–72	.02625	73,879	1,939	72,909	1,020,931	13.82
72–73	.02872	71,940	2,066	70,907	948,022	13.18
73–74	.03160	69,874	2,209	68,769	877,115	12.55
74–75	.03482	67,665	2,356	66,488	808,346	11.95
75–76	.03831	65,309	2,502	64,058	741,858	11.36
76–77	.04198	62,807	2,637	61,489	677,800	10.79
77–78	.04584	60,170	2,757	58,791	616,311	10.24
78–79	.04987	57,413	2,863	55,981	557,520	9.71
79–80	.05416	54,550	2,955	53,073	501,539	9.19
80–81	.05884	51,595	3,036	50,077	448,466	8.69
81–82	.06397	48,559	3,106	47,005	398,389	8.20
82–83	.06957	45,453	3,162	43,872	351,384	7.73
83–84	.07570	42,291	3,202	40,690	307,512	7.27
84–85	.08245	39,089	3,223	37,478	266,822	6.83
85–86	.09069	35,866	3,252	34,240	229,344	6.39
86–87	.09992	32,614	3,259	30,984	195,104	5.98
87–88	.11006	29,355	3,231	27,740	164,120	5.59
88–89	.12118	26,124	3,166	24,541	136,380	5.22
89–90	.13343	22,958	3,063	21,426	111,839	4.87
90–91	.14738	19,895	2,932	18,429	90,413	4.54
91–92	.16272	16,963	2,760	15,583	71,984	4.24
92–93	.17830	14,203	2,533	12,936	56,401	3.97
93–94	.19354	11,670	2,258	10,541	43,465	3.72
94–95	.20891	9,412	1,966	8,429	32,924	3.50
95–96	.22502	7,446	1,676	6,608	24,495	3.29
96–97	.24126	5,770	1,392	5,074	17,887	3.10
97–98	.25689	4,378	1,125	3,816	12,813	2.93
98–99	.27175	3,253	884	2,811	8,997	2.77
99–100	.28751	2,369	681	2,029	6,186	2.61
100–101	.30418	1,688	513	1,431	4,157	2.46
101–102	.32182	1,175	378	985	2,726	2.32
102–103	.34049	797	272	661	1,741	2.19
103–104	.36024	525	189	431	1,080	2.05
104–105	.38113	336	128	272	649	1.93
105–106	.40324	208	84	166	377	1.81
106–107	.42663	124	53	98	211	1.70
107–108	.45137	71	32	55	113	1.59
108–109	.47755	39	19	30	58	1.49
109–110	.50525	20	10	15	28	1.39

Table 2. Life table for males: Iowa, 1989-91

Age in years	Proportion dying	Of 100,000 born alive		Stationary population		Average remaining lifetime
		Number living at beginning of year of age (3)	Number dying during year of age (4)	In year of age (5)	In this year of age and all subsequent years (6)	Average number of years of life remaining at beginning of year of age (7)
Period of life between two exact ages stated (1)	Proportion of persons alive at beginning of year of age dying during year (2)	l_x	d_x	L_x	T_x	${}^o e_x$
x to x+1	q_x					
0-1	.00939	100,000	939	99,279	7,388,714	73.89
1-2	.00067	99,061	66	99,028	7,289,435	73.59
2-3	.00044	98,995	43	98,973	7,190,407	72.63
3-4	.00040	98,952	40	98,932	7,091,434	71.67
4-5	.00031	98,912	31	98,897	6,992,502	70.69
5-6	.00028	98,881	27	98,867	6,893,605	69.72
6-7	.00026	98,854	26	98,842	6,794,738	68.74
7-8	.00025	98,828	25	98,815	6,695,896	67.75
8-9	.00023	98,803	22	98,792	6,597,081	66.77
9-10	.00020	98,781	20	98,772	6,498,289	65.78
10-11	.00017	98,761	17	98,752	6,399,517	64.80
11-12	.00017	98,744	17	98,736	6,300,765	63.81
12-13	.00023	98,727	23	98,716	6,202,029	62.82
13-14	.00036	98,704	35	98,686	6,103,313	61.83
14-15	.00054	98,669	53	98,643	6,004,627	60.86
15-16	.00074	98,616	73	98,579	5,905,984	59.89
16-17	.00092	98,543	91	98,498	5,807,405	58.93
17-18	.00107	98,452	105	98,400	5,708,907	57.99
18-19	.00117	98,347	115	98,289	5,610,507	57.05
19-20	.00121	98,232	119	98,173	5,512,218	56.11
20-21	.00126	98,113	123	98,051	5,414,045	55.18
21-22	.00130	97,990	128	97,926	5,315,994	54.25
22-23	.00133	97,862	130	97,797	5,218,068	53.32
23-24	.00133	97,732	129	97,668	5,120,271	52.39
24-25	.00131	97,603	128	97,539	5,022,603	51.46
25-26	.00128	97,475	125	97,412	4,925,064	50.53
26-27	.00125	97,350	122	97,290	4,827,652	49.59
27-28	.00124	97,228	120	97,168	4,730,362	48.65
28-29	.00124	97,108	121	97,048	4,633,194	47.71
29-30	.00126	96,987	122	96,925	4,536,146	46.77
30-31	.00129	96,865	125	96,803	4,439,221	45.83
31-32	.00131	96,740	127	96,676	4,342,418	44.89
32-33	.00134	96,613	130	96,548	4,245,742	43.95
33-34	.00139	96,483	133	96,417	4,149,194	43.00
34-35	.00144	96,350	139	96,280	4,052,777	42.06
35-36	.00150	96,211	145	96,138	3,956,497	41.12
36-37	.00157	96,066	151	95,991	3,860,359	40.18
37-38	.00165	95,915	158	95,837	3,764,368	39.25
38-39	.00173	95,757	166	95,674	3,668,531	38.31
39-40	.00183	95,591	174	95,504	3,572,857	37.38
40-41	.00194	95,417	186	95,324	3,477,353	36.44
41-42	.00208	95,231	198	95,132	3,382,029	35.51
42-43	.00223	95,033	212	94,927	3,286,897	34.59
43-44	.00239	94,821	226	94,708	3,191,970	33.66
44-45	.00258	94,595	244	94,473	3,097,262	32.74
45-46	.00280	94,351	264	94,219	3,002,789	31.83
46-47	.00309	94,087	291	93,941	2,908,570	30.91
47-48	.00342	93,796	321	93,636	2,814,629	30.01
48-49	.00380	93,475	355	93,298	2,720,993	29.11
49-50	.00423	93,120	394	92,923	2,627,695	28.22
50-51	.00473	92,726	438	92,507	2,534,772	27.34
51-52	.00529	92,288	488	92,044	2,442,265	26.46
52-53	.00588	91,800	540	91,530	2,350,221	25.60
53-54	.00648	91,260	591	90,964	2,258,691	24.75
54-55	.00713	90,669	647	90,345	2,167,727	23.91

Table 2. Life table for males: Iowa, 1989–91—Con.

Age in years	Proportion dying	Of 100,000 born alive		Stationary population		Average remaining lifetime
		Number living at beginning of year of age (3)	Number dying during year of age (4)	In year of age (5)	In this year of age and all subsequent years (6)	Average number of years of life remaining at beginning of year of age (7)
Period of life between two exact ages stated (1)	Proportion of persons alive at beginning of year of age dying during year (2)	l_x	d_x	L_x	T_x	${}^o e_x$
x to x+1	q_x					
55–56	.00782	90,022	704	89,670	2,077,382	23.08
56–57	.00861	89,318	769	88,934	1,987,712	22.25
57–58	.00961	88,549	851	88,124	1,898,778	21.44
58–59	.01083	87,698	950	87,223	1,810,654	20.65
59–60	.01220	86,748	1,058	86,220	1,723,431	19.87
60–61	.01361	85,690	1,166	85,106	1,637,211	19.11
61–62	.01501	84,524	1,269	83,890	1,552,105	18.36
62–63	.01645	83,255	1,370	82,569	1,468,215	17.64
63–64	.01796	81,885	1,471	81,150	1,385,646	16.92
64–65	.01958	80,414	1,574	79,626	1,304,496	16.22
65–66	.02128	78,840	1,678	78,001	1,224,870	15.54
66–67	.02310	77,162	1,782	76,271	1,146,869	14.86
67–68	.02517	75,380	1,897	74,432	1,070,598	14.20
68–69	.02759	73,483	2,028	72,469	996,166	13.56
69–70	.03040	71,455	2,172	70,369	923,697	12.93
70–71	.03349	69,283	2,320	68,123	853,328	12.32
71–72	.03685	66,963	2,467	65,729	785,205	11.73
72–73	.04055	64,496	2,616	63,189	719,476	11.16
73–74	.04456	61,880	2,757	60,501	656,287	10.61
74–75	.04881	59,123	2,886	57,680	595,786	10.08
75–76	.05340	56,237	3,003	54,736	538,106	9.57
76–77	.05828	53,234	3,102	51,683	483,370	9.08
77–78	.06328	50,132	3,173	48,545	431,687	8.61
78–79	.06836	46,959	3,210	45,355	383,142	8.16
79–80	.07368	43,749	3,223	42,137	337,787	7.72
80–81	.07956	40,526	3,224	38,914	295,650	7.30
81–82	.08613	37,302	3,213	35,695	256,736	6.88
82–83	.09327	34,089	3,180	32,499	221,041	6.48
83–84	.10091	30,909	3,119	29,350	188,542	6.10
84–85	.10915	27,790	3,033	26,274	159,192	5.73
85–86	.11937	24,757	2,955	23,279	132,918	5.37
86–87	.13100	21,802	2,856	20,374	109,639	5.03
87–88	.14339	18,946	2,717	17,587	89,265	4.71
88–89	.15616	16,229	2,534	14,962	71,678	4.42
89–90	.16943	13,695	2,320	12,535	56,716	4.14
90–91	.18408	11,375	2,094	10,327	44,181	3.88
91–92	.20026	9,281	1,859	8,352	33,854	3.65
92–93	.21659	7,422	1,607	6,618	25,502	3.44
93–94	.23196	5,815	1,349	5,140	18,884	3.25
94–95	.24620	4,466	1,100	3,916	13,744	3.08
95–96	.26004	3,366	875	2,929	9,828	2.92
96–97	.27536	2,491	686	2,148	6,899	2.77
97–98	.28943	1,805	522	1,544	4,751	2.63
98–99	.30390	1,283	390	1,088	3,207	2.50
99–100	.31910	893	285	750	2,119	2.37
100–101	.33505	608	204	506	1,369	2.25
101–102	.35181	404	142	333	863	2.13
102–103	.36940	262	97	214	530	2.02
103–104	.38787	165	64	133	316	1.91
104–105	.40726	101	41	80	183	1.81
105–106	.42762	60	26	48	103	1.71
106–107	.44900	34	15	26	55	1.61
107–108	.47145	19	9	15	29	1.52
108–109	.49503	10	5	7	14	1.43
109–110	.51978	5	3	4	7	1.35

Table 3. Life table for females: Iowa, 1989-91

Age in years	Proportion dying	Of 100,000 born alive		Stationary population		Average remaining lifetime
		Number living at beginning of year of age (3)	Number dying during year of age (4)	In year of age (5)	In this year of age and all subsequent years (6)	Average number of years of life remaining at beginning of year of age (7)
Period of life between two exact ages stated (1)	Proportion of persons alive at beginning of year of age dying during year (2)	l_x	d_x	L_x	T_x	${}^o e_x$
x to x+1	q_x					
0-1	.00685	100,000	685	99,462	8,054,156	80.54
1-2	.00064	99,315	63	99,284	7,954,694	80.10
2-3	.00039	99,252	39	99,232	7,855,410	79.15
3-4	.00028	99,213	28	99,199	7,756,178	78.18
4-5	.00026	99,185	25	99,173	7,656,979	77.20
5-6	.00023	99,160	23	99,149	7,557,806	76.22
6-7	.00021	99,137	20	99,127	7,458,657	75.24
7-8	.00019	99,117	19	99,107	7,359,530	74.25
8-9	.00017	99,098	17	99,089	7,260,423	73.27
9-10	.00015	99,081	15	99,074	7,161,334	72.28
10-11	.00014	99,066	14	99,058	7,062,260	71.29
11-12	.00014	99,052	14	99,045	6,963,202	70.30
12-13	.00015	99,038	15	99,031	6,864,157	69.31
13-14	.00018	99,023	18	99,014	6,765,126	68.32
14-15	.00023	99,005	23	98,994	6,666,112	67.33
15-16	.00028	98,982	28	98,968	6,567,118	66.35
16-17	.00034	98,954	33	98,938	6,468,150	65.37
17-18	.00038	98,921	37	98,902	6,369,212	64.39
18-19	.00041	98,884	40	98,864	6,270,310	63.41
19-20	.00042	98,844	42	98,822	6,171,446	62.44
20-21	.00044	98,802	44	98,780	6,072,624	61.46
21-22	.00046	98,758	45	98,736	5,973,844	60.49
22-23	.00047	98,713	46	98,690	5,875,108	59.52
23-24	.00047	98,667	47	98,643	5,776,418	58.54
24-25	.00046	98,620	45	98,598	5,677,775	57.57
25-26	.00046	98,575	46	98,552	5,579,177	56.60
26-27	.00045	98,529	44	98,507	5,480,625	55.62
27-28	.00046	98,485	45	98,462	5,382,118	54.65
28-29	.00047	98,440	47	98,417	5,283,656	53.67
29-30	.00050	98,393	48	98,369	5,185,239	52.70
30-31	.00052	98,345	52	98,319	5,086,870	51.73
31-32	.00055	98,293	54	98,266	4,988,551	50.75
32-33	.00058	98,239	57	98,211	4,890,285	49.78
33-34	.00062	98,182	61	98,151	4,792,074	48.81
34-35	.00067	98,121	65	98,089	4,693,923	47.84
35-36	.00072	98,056	71	98,020	4,595,834	46.87
36-37	.00078	97,985	77	97,946	4,497,814	45.90
37-38	.00085	97,908	83	97,867	4,399,868	44.94
38-39	.00091	97,825	89	97,780	4,302,001	43.98
39-40	.00099	97,736	97	97,688	4,204,221	43.02
40-41	.00107	97,639	104	97,586	4,106,533	42.06
41-42	.00116	97,535	114	97,478	4,008,947	41.10
42-43	.00127	97,421	124	97,360	3,911,469	40.15
43-44	.00141	97,297	137	97,228	3,814,109	39.20
44-45	.00157	97,160	153	97,084	3,716,881	38.26
45-46	.00178	97,007	172	96,921	3,619,797	37.31
46-47	.00200	96,835	194	96,737	3,522,876	36.38
47-48	.00223	96,641	216	96,533	3,426,139	35.45
48-49	.00243	96,425	234	96,308	3,329,606	34.53
49-50	.00261	96,191	251	96,066	3,233,298	33.61
50-51	.00281	95,940	270	95,805	3,137,232	32.70
51-52	.00305	95,670	291	95,524	3,041,427	31.79
52-53	.00334	95,379	319	95,220	2,945,903	30.89
53-54	.00369	95,060	351	94,884	2,850,683	29.99
54-55	.00411	94,709	389	94,515	2,755,799	29.10

Table 3. Life table for females: Iowa, 1989–91—Con.

Age in years	Proportion dying	Of 100,000 born alive		Stationary population		Average remaining lifetime
		Number living at beginning of year of age (3)	Number dying during year of age (4)	In year of age (5)	In this year of age and all subsequent years (6)	Average number of years of life remaining at beginning of year of age (7)
Period of life between two exact ages stated (1)	Proportion of persons alive at beginning of year of age dying during year (2)	l_x	d_x	L_x	T_x	${}^o e_x$
x to x+1	q_x					
55–56	.00457	94,320	432	94,104	2,661,284	28.22
56–57	.00507	93,888	476	93,650	2,567,180	27.34
57–58	.00560	93,412	523	93,150	2,473,530	26.48
58–59	.00616	92,889	572	92,603	2,380,380	25.63
59–60	.00674	92,317	623	92,006	2,287,777	24.78
60–61	.00734	91,694	672	91,358	2,195,771	23.95
61–62	.00796	91,022	725	90,659	2,104,413	23.12
62–63	.00867	90,297	783	89,905	2,013,754	22.30
63–64	.00947	89,514	847	89,091	1,923,849	21.49
64–65	.01036	88,667	919	88,207	1,834,758	20.69
65–66	.01136	87,748	997	87,250	1,746,551	19.90
66–67	.01240	86,751	1,076	86,213	1,659,301	19.13
67–68	.01344	85,675	1,151	85,099	1,573,088	18.36
68–69	.01447	84,524	1,223	83,912	1,487,989	17.60
69–70	.01555	83,301	1,295	82,653	1,404,077	16.86
70–71	.01670	82,006	1,370	81,321	1,321,424	16.11
71–72	.01806	80,636	1,456	79,909	1,240,103	15.38
72–73	.01982	79,180	1,569	78,395	1,160,194	14.65
73–74	.02210	77,611	1,715	76,753	1,081,799	13.94
74–75	.02481	75,896	1,884	74,954	1,005,046	13.24
75–76	.02778	74,012	2,055	72,984	930,092	12.57
76–77	.03091	71,957	2,225	70,845	857,108	11.91
77–78	.03434	69,732	2,394	68,535	786,263	11.28
78–79	.03811	67,338	2,566	66,055	717,728	10.66
79–80	.04225	64,772	2,737	63,403	651,673	10.06
80–81	.04676	62,035	2,900	60,585	588,270	9.48
81–82	.05165	59,135	3,055	57,608	527,685	8.92
82–83	.05703	56,080	3,198	54,481	470,077	8.38
83–84	.06300	52,882	3,332	51,216	415,596	7.86
84–85	.06963	49,550	3,450	47,825	364,380	7.35
85–86	.07762	46,100	3,578	44,311	316,555	6.87
86–87	.08653	42,522	3,679	40,682	272,244	6.40
87–88	.09647	38,843	3,748	36,969	231,562	5.96
88–89	.10760	35,095	3,776	33,207	194,593	5.54
89–90	.12005	31,319	3,760	29,439	161,386	5.15
90–91	.13440	27,559	3,704	25,708	131,947	4.79
91–92	.15019	23,855	3,583	22,063	106,239	4.45
92–93	.16621	20,272	3,369	18,588	84,176	4.15
93–94	.18192	16,903	3,075	15,366	65,588	3.88
94–95	.19790	13,828	2,737	12,459	50,222	3.63
95–96	.21475	11,091	2,381	9,901	37,763	3.40
96–97	.23143	8,710	2,016	7,702	27,862	3.20
97–98	.24775	6,694	1,659	5,864	20,160	3.01
98–99	.26375	5,035	1,328	4,372	14,296	2.84
99–100	.27957	3,707	1,036	3,189	9,924	2.68
100–101	.29635	2,671	792	2,275	6,735	2.52
101–102	.31413	1,879	590	1,584	4,460	2.37
102–103	.33298	1,289	429	1,075	2,876	2.23
103–104	.35296	860	304	708	1,801	2.10
104–105	.37413	556	208	452	1,093	1.97
105–106	.39658	348	138	279	641	1.84
106–107	.42038	210	88	166	362	1.72
107–108	.44560	122	54	95	196	1.61
108–109	.47233	68	32	51	101	1.50
109–110	.50068	36	18	27	50	1.40

Table 4. Life table for the white population: Iowa, 1989-91

Age in years	Proportion dying	Of 100,000 born alive		Stationary population		Average remaining lifetime
		Number living at beginning of year of age (3)	Number dying during year of age (4)	In year of age (5)	In this year of age and all subsequent years (6)	Average number of years of life remaining at beginning of year of age (7)
Period of life between two exact ages stated (1)	Proportion of persons alive at beginning of year of age dying during year (2)	l_x	d_x	L_x	T_x	${}^o e_x$
x to x+1	q_x					
0-1	.00782	100,000	782	99,395	7,738,116	77.38
1-2	.00064	99,218	64	99,186	7,638,721	76.99
2-3	.00041	99,154	40	99,134	7,539,535	76.04
3-4	.00033	99,114	33	99,097	7,440,401	75.07
4-5	.00028	99,081	28	99,067	7,341,304	74.09
5-6	.00025	99,053	25	99,041	7,242,237	73.11
6-7	.00024	99,028	23	99,017	7,143,196	72.13
7-8	.00022	99,005	22	98,993	7,044,179	71.15
8-9	.00020	98,983	20	98,973	6,945,186	70.17
9-10	.00018	98,963	18	98,954	6,846,213	69.18
10-11	.00016	98,945	15	98,938	6,747,259	68.19
11-12	.00015	98,930	16	98,922	6,648,321	67.20
12-13	.00019	98,914	18	98,905	6,549,399	66.21
13-14	.00027	98,896	27	98,882	6,450,494	65.23
14-15	.00038	98,869	38	98,851	6,351,612	64.24
15-16	.00051	98,831	50	98,806	6,252,761	63.27
16-17	.00063	98,781	63	98,749	6,153,955	62.30
17-18	.00073	98,718	72	98,682	6,055,206	61.34
18-19	.00079	98,646	77	98,608	5,956,524	60.38
19-20	.00082	98,569	81	98,528	5,857,916	59.43
20-21	.00084	98,488	83	98,446	5,759,388	58.48
21-22	.00087	98,405	86	98,362	5,660,942	57.53
22-23	.00089	98,319	87	98,275	5,562,580	56.58
23-24	.00089	98,232	87	98,188	5,464,305	55.63
24-25	.00087	98,145	86	98,102	5,366,117	54.68
25-26	.00086	98,059	84	98,017	5,268,015	53.72
26-27	.00084	97,975	83	97,933	5,169,998	52.77
27-28	.00084	97,892	81	97,852	5,072,065	51.81
28-29	.00085	97,811	83	97,769	4,974,213	50.86
29-30	.00087	97,728	85	97,686	4,876,444	49.90
30-31	.00089	97,643	87	97,599	4,778,758	48.94
31-32	.00092	97,556	89	97,512	4,681,159	47.98
32-33	.00095	97,467	93	97,420	4,583,647	47.03
33-34	.00099	97,374	96	97,327	4,486,227	46.07
34-35	.00104	97,278	100	97,228	4,388,900	45.12
35-36	.00109	97,178	107	97,124	4,291,672	44.16
36-37	.00115	97,071	112	97,016	4,194,548	43.21
37-38	.00122	96,959	118	96,900	4,097,532	42.26
38-39	.00130	96,841	126	96,778	4,000,632	41.31
39-40	.00138	96,715	133	96,649	3,903,854	40.36
40-41	.00147	96,582	142	96,511	3,807,205	39.42
41-42	.00158	96,440	152	96,364	3,710,694	38.48
42-43	.00171	96,288	164	96,206	3,614,330	37.54
43-44	.00185	96,124	178	96,034	3,518,124	36.60
44-45	.00203	95,946	195	95,849	3,422,090	35.67
45-46	.00224	95,751	214	95,644	3,326,241	34.74
46-47	.00249	95,537	238	95,418	3,230,597	33.82
47-48	.00277	95,299	264	95,166	3,135,179	32.90
48-49	.00306	95,035	291	94,890	3,040,013	31.99
49-50	.00336	94,744	318	94,585	2,945,123	31.09
50-51	.00370	94,426	350	94,251	2,850,538	30.19
51-52	.00410	94,076	386	93,883	2,756,287	29.30
52-53	.00453	93,690	424	93,478	2,662,404	28.42
53-54	.00500	93,266	467	93,032	2,568,926	27.54
54-55	.00552	92,799	512	92,544	2,475,894	26.68

Table 4. Life table for the white population: Iowa, 1989–91—Con.

Age in years	Proportion dying	Of 100,000 born alive		Stationary population		Average remaining lifetime
		Number living at beginning of year of age (3)	Number dying during year of age (4)	In year of age (5)	In this year of age and all subsequent years (6)	Average number of years of life remaining at beginning of year of age (7)
Period of life between two exact ages stated (1)	Proportion of persons alive at beginning of year of age dying during year (2)	l_x	d_x	L_x	T_x	${}^o e_x$
x to x+1	q_x					
55–56	.00607	92,287	560	92,007	2,383,350	25.83
56–57	.00670	91,727	615	91,419	2,291,343	24.98
57–58	.00744	91,112	678	90,774	2,199,924	24.15
58–59	.00832	90,434	752	90,058	2,109,150	23.32
59–60	.00928	89,682	832	89,266	2,019,092	22.51
60–61	.01026	88,850	912	88,394	1,929,826	21.72
61–62	.01126	87,938	990	87,443	1,841,432	20.94
62–63	.01231	86,948	1,070	86,413	1,753,989	20.17
63–64	.01342	85,878	1,153	85,301	1,667,576	19.42
64–65	.01462	84,725	1,238	84,106	1,582,275	18.68
65–66	.01590	83,487	1,328	82,823	1,498,169	17.94
66–67	.01726	82,159	1,417	81,451	1,415,346	17.23
67–68	.01872	80,742	1,512	79,986	1,333,895	16.52
68–69	.02032	79,230	1,609	78,425	1,253,909	15.83
69–70	.02209	77,621	1,715	76,763	1,175,484	15.14
70–71	.02401	75,906	1,823	74,995	1,098,721	14.47
71–72	.02613	74,083	1,936	73,115	1,023,726	13.82
72–73	.02861	72,147	2,063	71,116	950,611	13.18
73–74	.03149	70,084	2,208	68,980	879,495	12.55
74–75	.03472	67,876	2,356	66,698	810,515	11.94
75–76	.03822	65,520	2,505	64,267	743,817	11.35
76–77	.04191	63,015	2,641	61,695	679,550	10.78
77–78	.04578	60,374	2,764	58,992	617,855	10.23
78–79	.04982	57,610	2,870	56,175	558,863	9.70
79–80	.05412	54,740	2,963	53,259	502,688	9.18
80–81	.05880	51,777	3,044	50,255	449,429	8.68
81–82	.06393	48,733	3,116	47,175	399,174	8.19
82–83	.06953	45,617	3,172	44,032	351,999	7.72
83–84	.07567	42,445	3,212	40,839	307,967	7.26
84–85	.08243	39,233	3,234	37,616	267,128	6.81
85–86	.09067	35,999	3,264	34,368	229,512	6.38
86–87	.09991	32,735	3,270	31,100	195,144	5.96
87–88	.11013	29,465	3,245	27,842	164,044	5.57
88–89	.12134	26,220	3,182	24,629	136,202	5.19
89–90	.13370	23,038	3,080	21,498	111,573	4.84
90–91	.14786	19,958	2,951	18,483	90,075	4.51
91–92	.16353	17,007	2,781	15,616	71,592	4.21
92–93	.17954	14,226	2,554	12,949	55,976	3.93
93–94	.19522	11,672	2,279	10,533	43,027	3.69
94–95	.21103	9,393	1,982	8,402	32,494	3.46
95–96	.22760	7,411	1,687	6,567	24,092	3.25
96–97	.24414	5,724	1,397	5,026	17,525	3.06
97–98	.26009	4,327	1,126	3,764	12,499	2.89
98–99	.27538	3,201	881	2,760	8,735	2.73
99–100	.29135	2,320	676	1,982	5,975	2.58
100–101	.30824	1,644	507	1,391	3,993	2.43
101–102	.32612	1,137	371	951	2,602	2.29
102–103	.34504	766	264	634	1,651	2.15
103–104	.36505	502	183	411	1,017	2.03
104–105	.38622	319	123	257	606	1.90
105–106	.40862	196	80	156	349	1.78
106–107	.43232	116	50	90	193	1.67
107–108	.45740	66	30	51	103	1.56
108–109	.48393	36	18	27	52	1.46
109–110	.51200	18	9	14	25	1.36

Table 5. Life table for white males: Iowa, 1989-91

Age in years	Proportion dying	Of 100,000 born alive		Stationary population		Average remaining lifetime
		Number living at beginning of year of age (3)	Number dying during year of age (4)	In year of age (5)	In this year of age and all subsequent years (6)	Average number of years of life remaining at beginning of year of age (7)
Period of life between two exact ages stated (1)	Proportion of persons alive at beginning of year of age dying during year (2)	l_x	d_x	L_x	T_x	${}^o e_x$
x to x+1	q_x	l_x	d_x	L_x	T_x	${}^o e_x$
0-1	.00903	100,000	903	99,308	7,397,655	73.98
1-2	.00066	99,097	66	99,065	7,298,347	73.65
2-3	.00044	99,031	43	99,009	7,199,282	72.70
3-4	.00037	98,988	37	98,969	7,100,273	71.73
4-5	.00031	98,951	30	98,937	7,001,304	70.75
5-6	.00027	98,921	27	98,907	6,902,367	69.78
6-7	.00026	98,894	26	98,881	6,803,460	68.80
7-8	.00025	98,868	25	98,856	6,704,579	67.81
8-9	.00023	98,843	23	98,831	6,605,723	66.83
9-10	.00020	98,820	19	98,811	6,506,892	65.85
10-11	.00017	98,801	17	98,792	6,408,081	64.86
11-12	.00017	98,784	17	98,776	6,309,289	63.87
12-13	.00023	98,767	22	98,755	6,210,513	62.88
13-14	.00035	98,745	35	98,728	6,111,758	61.89
14-15	.00053	98,710	52	98,683	6,013,030	60.92
15-16	.00073	98,658	72	98,622	5,914,347	59.95
16-17	.00092	98,586	90	98,541	5,815,725	58.99
17-18	.00106	98,496	105	98,443	5,717,184	58.05
18-19	.00115	98,391	114	98,334	5,618,741	57.11
19-20	.00120	98,277	117	98,219	5,520,407	56.17
20-21	.00123	98,160	121	98,099	5,422,188	55.24
21-22	.00127	98,039	125	97,976	5,324,089	54.31
22-23	.00129	97,914	127	97,851	5,226,113	53.37
23-24	.00130	97,787	127	97,724	5,128,262	52.44
24-25	.00128	97,660	125	97,597	5,030,538	51.51
25-26	.00126	97,535	123	97,474	4,932,941	50.58
26-27	.00124	97,412	121	97,351	4,835,467	49.64
27-28	.00123	97,291	120	97,231	4,738,116	48.70
28-29	.00124	97,171	121	97,110	4,640,885	47.76
29-30	.00126	97,050	121	96,990	4,543,775	46.82
30-31	.00128	96,929	124	96,866	4,446,785	45.88
31-32	.00130	96,805	126	96,742	4,349,919	44.93
32-33	.00133	96,679	128	96,615	4,253,177	43.99
33-34	.00137	96,551	132	96,485	4,156,562	43.05
34-35	.00142	96,419	137	96,350	4,060,077	42.11
35-36	.00147	96,282	142	96,212	3,963,727	41.17
36-37	.00154	96,140	148	96,066	3,867,515	40.23
37-38	.00161	95,992	154	95,915	3,771,449	39.29
38-39	.00169	95,838	163	95,757	3,675,534	38.35
39-40	.00179	95,675	171	95,590	3,579,777	37.42
40-41	.00190	95,504	181	95,414	3,484,187	36.48
41-42	.00203	95,323	194	95,226	3,388,773	35.55
42-43	.00218	95,129	207	95,025	3,293,547	34.62
43-44	.00234	94,922	222	94,811	3,198,522	33.70
44-45	.00253	94,700	239	94,580	3,103,711	32.77
45-46	.00275	94,461	260	94,331	3,009,131	31.86
46-47	.00303	94,201	286	94,058	2,914,800	30.94
47-48	.00337	93,915	316	93,757	2,820,742	30.04
48-49	.00375	93,599	352	93,423	2,726,985	29.13
49-50	.00419	93,247	390	93,052	2,633,562	28.24
50-51	.00469	92,857	436	92,639	2,540,510	27.36
51-52	.00526	92,421	486	92,178	2,447,871	26.49
52-53	.00585	91,935	538	91,666	2,355,693	25.62
53-54	.00645	91,397	589	91,103	2,264,027	24.77
54-55	.00709	90,808	644	90,486	2,172,924	23.93

Table 5. Life table for white males: Iowa, 1989–91—Con.

Age in years	Proportion dying	Of 100,000 born alive		Stationary population		Average remaining lifetime
		Proportion of persons alive at beginning of year of age dying during year (2)	Number living at beginning of year of age (3)	Number dying during year of age (4)	In year of age (5)	In this year of age and all subsequent years (6)
Period of life between two exact ages stated (1)	q_x	l_x	d_x	L_x	T_x	${}^o e_x$
x to x+1						
55–56	.00776	90,164	700	89,814	2,082,438	23.10
56–57	.00855	89,464	765	89,082	1,992,624	22.27
57–58	.00954	88,699	846	88,276	1,903,542	21.46
58–59	.01076	87,853	945	87,380	1,815,266	20.66
59–60	.01212	86,908	1,053	86,382	1,727,886	19.88
60–61	.01353	85,855	1,162	85,274	1,641,504	19.12
61–62	.01493	84,693	1,264	84,061	1,556,230	18.37
62–63	.01637	83,429	1,365	82,747	1,472,169	17.65
63–64	.01788	82,064	1,467	81,330	1,389,422	16.93
64–65	.01949	80,597	1,571	79,811	1,308,092	16.23
65–66	.02119	79,026	1,675	78,188	1,228,281	15.54
66–67	.02300	77,351	1,779	76,462	1,150,093	14.87
67–68	.02507	75,572	1,894	74,625	1,073,631	14.21
68–69	.02749	73,678	2,025	72,665	999,006	13.56
69–70	.03029	71,653	2,170	70,568	926,341	12.93
70–71	.03337	69,483	2,319	68,323	855,773	12.32
71–72	.03673	67,164	2,467	65,931	787,450	11.72
72–73	.04043	64,697	2,616	63,389	721,519	11.15
73–74	.04445	62,081	2,759	60,701	658,130	10.60
74–75	.04871	59,322	2,889	57,878	597,429	10.07
75–76	.05331	56,433	3,009	54,928	539,551	9.56
76–77	.05821	53,424	3,110	51,869	484,623	9.07
77–78	.06323	50,314	3,181	48,724	432,754	8.60
78–79	.06832	47,133	3,220	45,523	384,030	8.15
79–80	.07366	43,913	3,235	42,295	338,507	7.71
80–81	.07957	40,678	3,237	39,060	296,212	7.28
81–82	.08617	37,441	3,226	35,828	257,152	6.87
82–83	.09333	34,215	3,193	32,618	221,324	6.47
83–84	.10100	31,022	3,133	29,456	188,706	6.08
84–85	.10926	27,889	3,048	26,365	159,250	5.71
85–86	.11951	24,841	2,968	23,357	132,885	5.35
86–87	.13121	21,873	2,870	20,438	109,528	5.01
87–88	.14369	19,003	2,731	17,637	89,090	4.69
88–89	.15659	16,272	2,548	14,998	71,453	4.39
89–90	.17002	13,724	2,333	12,558	56,455	4.11
90–91	.18489	11,391	2,106	10,338	43,897	3.85
91–92	.20141	9,285	1,870	8,349	33,559	3.61
92–93	.21817	7,415	1,618	6,606	25,210	3.40
93–94	.23405	5,797	1,357	5,119	18,604	3.21
94–95	.24883	4,440	1,105	3,888	13,485	3.04
95–96	.26329	3,335	878	2,896	9,597	2.88
96–97	.27914	2,457	686	2,114	6,701	2.73
97–98	.29399	1,771	520	1,511	4,587	2.59
98–99	.30869	1,251	386	1,058	3,076	2.46
99–100	.32413	865	281	724	2,018	2.33
100–101	.34033	584	199	485	1,294	2.21
101–102	.35735	385	137	317	809	2.10
102–103	.37522	248	93	201	492	1.99
103–104	.39398	155	61	124	291	1.88
104–105	.41368	94	39	75	167	1.78
105–106	.43436	55	24	43	92	1.68
106–107	.45608	31	14	24	49	1.58
107–108	.47888	17	8	13	25	1.49
108–109	.50282	9	5	6	12	1.41
109–110	.52797	4	2	3	6	1.32

Table 6. Life table for white females: Iowa, 1989-91

Age in years	Proportion dying	Of 100,000 born alive		Stationary population		Average remaining lifetime
		Number living at beginning of year of age (3)	Number dying during year of age (4)	In year of age (5)	In this year of age and all subsequent years (6)	Average number of years of life remaining at beginning of year of age (7)
Period of life between two exact ages stated (1)	Proportion of persons alive at beginning of year of age dying during year (2)	l_x	d_x	L_x	T_x	${}^o e_x$
x to x+1	q_x					
0-1	.00655	100,000	655	99,486	8,062,049	80.62
1-2	.00063	99,345	62	99,314	7,962,563	80.15
2-3	.00037	99,283	37	99,264	7,863,249	79.20
3-4	.00029	99,246	29	99,231	7,763,985	78.23
4-5	.00025	99,217	25	99,205	7,664,754	77.25
5-6	.00023	99,192	23	99,180	7,565,549	76.27
6-7	.00021	99,169	21	99,159	7,466,369	75.29
7-8	.00019	99,148	19	99,139	7,367,210	74.30
8-9	.00017	99,129	17	99,121	7,268,071	73.32
9-10	.00016	99,112	15	99,104	7,168,950	72.33
10-11	.00014	99,097	14	99,090	7,069,846	71.34
11-12	.00014	99,083	14	99,076	6,970,756	70.35
12-13	.00015	99,069	14	99,062	6,871,680	69.36
13-14	.00018	99,055	18	99,046	6,772,618	68.37
14-15	.00023	99,037	23	99,025	6,673,572	67.38
15-16	.00029	99,014	29	98,999	6,574,547	66.40
16-17	.00034	98,985	33	98,969	6,475,548	65.42
17-18	.00038	98,952	38	98,932	6,376,579	64.44
18-19	.00041	98,914	41	98,893	6,277,647	63.47
19-20	.00043	98,873	42	98,852	6,178,754	62.49
20-21	.00044	98,831	44	98,809	6,079,902	61.52
21-22	.00046	98,787	46	98,763	5,981,093	60.55
22-23	.00047	98,741	47	98,718	5,882,330	59.57
23-24	.00047	98,694	46	98,671	5,783,612	58.60
24-25	.00046	98,648	46	98,625	5,684,941	57.63
25-26	.00045	98,602	45	98,579	5,586,316	56.66
26-27	.00045	98,557	43	98,536	5,487,737	55.68
27-28	.00045	98,514	45	98,491	5,389,201	54.71
28-29	.00046	98,469	45	98,447	5,290,710	53.73
29-30	.00049	98,424	48	98,400	5,192,263	52.75
30-31	.00051	98,376	51	98,351	5,093,863	51.78
31-32	.00054	98,325	53	98,298	4,995,512	50.81
32-33	.00057	98,272	56	98,244	4,897,214	49.83
33-34	.00061	98,216	60	98,186	4,798,970	48.86
34-35	.00066	98,156	65	98,124	4,700,784	47.89
35-36	.00071	98,091	69	98,056	4,602,660	46.92
36-37	.00077	98,022	75	97,985	4,504,604	45.96
37-38	.00083	97,947	82	97,906	4,406,619	44.99
38-39	.00089	97,865	87	97,821	4,308,713	44.03
39-40	.00096	97,778	94	97,731	4,210,892	43.07
40-41	.00104	97,684	101	97,634	4,113,161	42.11
41-42	.00113	97,583	110	97,527	4,015,527	41.15
42-43	.00123	97,473	121	97,413	3,918,000	40.20
43-44	.00137	97,352	133	97,285	3,820,587	39.24
44-45	.00153	97,219	149	97,145	3,723,302	38.30
45-46	.00173	97,070	168	96,986	3,626,157	37.36
46-47	.00196	96,902	190	96,807	3,529,171	36.42
47-48	.00218	96,712	211	96,606	3,432,364	35.49
48-49	.00238	96,501	230	96,386	3,335,758	34.57
49-50	.00256	96,271	246	96,148	3,239,372	33.65
50-51	.00275	96,025	265	95,893	3,143,224	32.73
51-52	.00299	95,760	286	95,617	3,047,331	31.82
52-53	.00328	95,474	313	95,317	2,951,714	30.92
53-54	.00363	95,161	346	94,988	2,856,397	30.02
54-55	.00404	94,815	383	94,623	2,761,409	29.12

Table 6. Life table for white females: Iowa, 1989-91—Con.

Age in years	Proportion dying	Of 100,000 born alive		Stationary population		Average remaining lifetime
		Number living at beginning of year of age (3)	Number dying during year of age (4)	In year of age (5)	In this year of age and all subsequent years (6)	Average number of years of life remaining at beginning of year of age (7)
Period of life between two exact ages stated (1)	Proportion of persons alive at beginning of year of age dying during year (2)	l_x	d_x	L_x	T_x	${}^o e_x$
x to x+1	q_x					
55-56	.00450	94,432	425	94,220	2,666,786	28.24
56-57	.00499	94,007	469	93,772	2,572,566	27.37
57-58	.00552	93,538	516	93,280	2,478,794	26.50
58-59	.00608	93,022	566	92,739	2,385,514	25.64
59-60	.00668	92,456	617	92,147	2,292,775	24.80
60-61	.00728	91,839	669	91,505	2,200,628	23.96
61-62	.00791	91,170	721	90,809	2,109,123	23.13
62-63	.00862	90,449	780	90,059	2,018,314	22.31
63-64	.00941	89,669	844	89,248	1,928,255	21.50
64-65	.01029	88,825	914	88,368	1,839,007	20.70
65-66	.01127	87,911	991	87,416	1,750,639	19.91
66-67	.01230	86,920	1,069	86,386	1,663,223	19.14
67-68	.01333	85,851	1,144	85,279	1,576,837	18.37
68-69	.01435	84,707	1,215	84,099	1,491,558	17.61
69-70	.01543	83,492	1,289	82,848	1,407,459	16.86
70-71	.01658	82,203	1,363	81,522	1,324,611	16.11
71-72	.01795	80,840	1,450	80,115	1,243,089	15.38
72-73	.01971	79,390	1,565	78,607	1,162,974	14.65
73-74	.02200	77,825	1,712	76,968	1,084,367	13.93
74-75	.02472	76,113	1,882	75,173	1,007,399	13.24
75-76	.02769	74,231	2,055	73,203	932,226	12.56
76-77	.03084	72,176	2,226	71,063	859,023	11.90
77-78	.03428	69,950	2,398	68,751	787,960	11.26
78-79	.03805	67,552	2,570	66,267	719,209	10.65
79-80	.04219	64,982	2,742	63,610	652,942	10.05
80-81	.04669	62,240	2,906	60,788	589,332	9.47
81-82	.05158	59,334	3,060	57,803	528,544	8.91
82-83	.05696	56,274	3,205	54,672	470,741	8.37
83-84	.06293	53,069	3,340	51,399	416,069	7.84
84-85	.06957	49,729	3,459	47,999	364,670	7.33
85-86	.07756	46,270	3,589	44,476	316,671	6.84
86-87	.08650	42,681	3,692	40,835	272,195	6.38
87-88	.09653	38,989	3,763	37,108	231,360	5.93
88-89	.10777	35,226	3,797	33,327	194,252	5.51
89-90	.12038	31,429	3,783	29,538	160,925	5.12
90-91	.13497	27,646	3,731	25,781	131,387	4.75
91-92	.15109	23,915	3,613	22,108	105,606	4.42
92-93	.16752	20,302	3,401	18,601	83,498	4.11
93-94	.18365	16,901	3,104	15,349	64,897	3.84
94-95	.20006	13,797	2,760	12,416	49,548	3.59
95-96	.21737	11,037	2,399	9,838	37,132	3.36
96-97	.23434	8,638	2,025	7,625	27,294	3.16
97-98	.25091	6,613	1,659	5,784	19,669	2.97
98-99	.26715	4,954	1,323	4,292	13,885	2.80
99-100	.28318	3,631	1,029	3,117	9,593	2.64
100-101	.30017	2,602	781	2,212	6,476	2.49
101-102	.31818	1,821	579	1,531	4,264	2.34
102-103	.33727	1,242	419	1,033	2,733	2.20
103-104	.35750	823	294	675	1,700	2.07
104-105	.37895	529	201	429	1,025	1.94
105-106	.40169	328	132	262	596	1.81
106-107	.42579	196	83	155	334	1.70
107-108	.45134	113	51	87	179	1.59
108-109	.47842	62	30	48	92	1.48
109-110	.50712	32	16	24	44	1.38

Table 7. Standard errors of the probability of dying: Iowa, 1989–91

Exact age in years	Total			White			All other					
							Total			Black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
0	.000263	.000394	.000345	.000263	.000395	.000345	*	*	*	*	*	*
1	.000075	.000107	.000107	.000076	.000108	.000108	*	*	*	*	*	*
2	.000060	.000086	.000083	.000061	.000089	.000083	*	*	*	*	*	*
3	.000054	.000081	.000070	.000054	.000080	.000073	*	*	*	*	*	*
4	.000049	.000071	.000066	.000049	.000072	.000067	*	*	*	*	*	*
5	.000045	.000066	.000062	.000046	.000067	.000063	*	*	*	*	*	*
6	.000043	.000064	.000058	.000044	.000065	.000060	*	*	*	*	*	*
7	.000042	.000062	.000055	.000043	.000064	.000057	*	*	*	*	*	*
8	.000040	.000059	.000053	.000041	.000061	.000054	*	*	*	*	*	*
9	.000038	.000056	.000050	.000038	.000057	.000052	*	*	*	*	*	*
10	.000036	.000052	.000048	.000036	.000053	.000049	*	*	*	*	*	*
11	.000036	.000053	.000048	.000036	.000053	.000049	*	*	*	*	*	*
12	.000040	.000061	.000050	.000040	.000061	.000051	*	*	*	*	*	*
13	.000047	.000076	.000056	.000048	.000077	.000057	*	*	*	*	*	*
14	.000056	.000093	.000062	.000057	.000094	.000064	*	*	*	*	*	*
15	.000065	.000109	.000069	.000066	.000111	.000071	*	*	*	*	*	*
16	.000072	.000122	.000075	.000074	.000124	.000077	*	*	*	*	*	*
17	.000078	.000132	.000080	.000079	.000135	.000082	*	*	*	*	*	*
18	.000081	.000138	.000083	.000083	.000141	.000085	*	*	*	*	*	*
19	.000083	.000142	.000085	.000085	.000144	.000087	*	*	*	*	*	*
20	.000085	.000145	.000087	.000087	.000147	.000089	*	*	*	*	*	*
21	.000087	.000148	.000089	.000088	.000150	.000092	*	*	*	*	*	*
22	.000088	.000149	.000090	.000089	.000151	.000092	*	*	*	*	*	*
23	.000087	.000149	.000090	.000089	.000151	.000092	*	*	*	*	*	*
24	.000086	.000148	.000088	.000088	.000150	.000090	*	*	*	*	*	*
25	.000085	.000146	.000087	.000086	.000148	.000088	*	*	*	*	*	*
26	.000084	.000144	.000086	.000085	.000147	.000087	*	*	*	*	*	*
27	.000083	.000143	.000086	.000084	.000145	.000086	*	*	*	*	*	*
28	.000082	.000142	.000086	.000084	.000144	.000087	*	*	*	*	*	*
29	.000083	.000141	.000087	.000084	.000143	.000088	*	*	*	*	*	*
30	.000083	.000141	.000089	.000084	.000143	.000090	*	*	*	*	*	*
31	.000083	.000141	.000090	.000084	.000143	.000091	*	*	*	*	*	*
32	.000084	.000142	.000093	.000085	.000143	.000093	*	*	*	*	*	*
33	.000086	.000144	.000096	.000087	.000145	.000097	*	*	*	*	*	*
34	.000089	.000147	.000100	.000089	.000148	.000101	*	*	*	*	*	*
35	.000092	.000151	.000105	.000092	.000152	.000105	*	*	*	*	*	*
36	.000095	.000155	.000110	.000096	.000156	.000111	*	*	*	*	*	*
37	.000099	.000160	.000116	.000099	.000161	.000116	*	*	*	*	*	*
38	.000103	.000166	.000121	.000103	.000166	.000122	*	*	*	*	*	*
39	.000108	.000173	.000128	.000108	.000173	.000128	*	*	*	*	*	*
40	.000113	.000181	.000134	.000113	.000181	.000134	*	*	*	*	*	*
41	.000119	.000190	.000142	.000119	.000190	.000142	*	*	*	*	*	*
42	.000125	.000201	.000151	.000125	.000201	.000151	*	*	*	*	*	*
43	.000134	.000212	.000163	.000134	.000213	.000162	*	*	*	*	*	*
44	.000143	.000226	.000176	.000143	.000227	.000176	*	*	*	*	*	*
45	.000155	.000243	.000192	.000155	.000243	.000192	*	*	*	*	*	*
46	.000168	.000262	.000210	.000168	.000263	.000210	*	*	*	*	*	*
47	.000181	.000283	.000226	.000181	.000284	.000226	*	*	*	*	*	*
48	.000193	.000304	.000240	.000194	.000305	.000240	*	*	*	*	*	*
49	.000204	.000325	.000251	.000205	.000326	.000251	*	*	*	*	*	*
50	.000216	.000347	.000263	.000217	.000349	.000263	*	*	*	*	*	*
51	.000230	.000371	.000276	.000231	.000374	.000276	*	*	*	*	*	*
52	.000243	.000395	.000290	.000245	.000398	.000291	*	*	*	*	*	*
53	.000257	.000418	.000307	.000259	.000421	.000308	*	*	*	*	*	*
54	.000272	.000443	.000326	.000274	.000446	.000326	*	*	*	*	*	*
55	.000288	.000467	.000345	.000289	.000470	.000346	*	*	*	*	*	*
56	.000303	.000494	.000364	.000305	.000496	.000365	*	*	*	*	*	*
57	.000320	.000522	.000383	.000321	.000525	.000383	*	*	*	*	*	*
58	.000336	.000552	.000399	.000338	.000555	.000400	*	*	*	*	*	*
59	.000352	.000582	.000415	.000354	.000585	.000416	*	*	*	*	*	*

Table 7. Standard errors of the probability of dying: Iowa, 1989–91—Con.

Exact age in years	Total			White			All other					
							Total			Black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
60	.000367	.000609	.000429	.000369	.000612	.000431	*	*	*	*	*	*
61	.000382	.000635	.000444	.000384	.000638	.000446	*	*	*	*	*	*
62	.000397	.000662	.000460	.000399	.000666	.000462	*	*	*	*	*	*
63	.000414	.000693	.000479	.000416	.000696	.000481	*	*	*	*	*	*
64	.000433	.000728	.000501	.000435	.000731	.000503	*	*	*	*	*	*
65	.000454	.000764	.000525	.000455	.000767	.000526	*	*	*	*	*	*
66	.000474	.000802	.000549	.000476	.000805	.000550	*	*	*	*	*	*
67	.000497	.000846	.000573	.000499	.000850	.000574	*	*	*	*	*	*
68	.000524	.000900	.000598	.000525	.000903	.000599	*	*	*	*	*	*
69	.000554	.000963	.000626	.000555	.000967	.000627	*	*	*	*	*	*
70	.000587	.001034	.000656	.000588	.001038	.000657	*	*	*	*	*	*
71	.000623	.001112	.000691	.000625	.001116	.000692	*	*	*	*	*	*
72	.000663	.001195	.000732	.000665	.001199	.000734	*	*	*	*	*	*
73	.000707	.001282	.000782	.000709	.001286	.000784	*	*	*	*	*	*
74	.000754	.001372	.000838	.000756	.001377	.000840	*	*	*	*	*	*
75	.000804	.001469	.000897	.000807	.001474	.000900	*	*	*	*	*	*
76	.000858	.001575	.000959	.000861	.001582	.000963	*	*	*	*	*	*
77	.000916	.001692	.001027	.000920	.001699	.001031	*	*	*	*	*	*
78	.000980	.001823	.001103	.000984	.001831	.001107	*	*	*	*	*	*
79	.001052	.001973	.001187	.001057	.001981	.001191	*	*	*	*	*	*
80	.001133	.002146	.001279	.001137	.002155	.001283	*	*	*	*	*	*
81	.001222	.002345	.001379	.001227	.002355	.001383	*	*	*	*	*	*
82	.001323	.002571	.001491	.001328	.002582	.001496	*	*	*	*	*	*
83	.001437	.002826	.001618	.001442	.002839	.001623	*	*	*	*	*	*
84	.001566	.003117	.001763	.001572	.003131	.001768	*	*	*	*	*	*
85	.001720	.003474	.001934	.001726	.003490	.001939	*	*	*	*	*	*
86	.001900	.003903	.002128	.001906	.003922	.002135	*	*	*	*	*	*
87	.002108	.004404	.002355	.002115	.004427	.002363	*	*	*	*	*	*
88	.002352	.004983	.002624	.002361	.005009	.002634	*	*	*	*	*	*
89	.002642	.005661	.002947	.002653	.005691	.002959	*	*	*	*	*	*
90	.003001	.006509	.003344	.003015	.006545	.003360	*	*	*	*	*	*
91	.003442	.007595	.003825	.003460	.007639	.003846	*	*	*	*	*	*
92	.003958	.008907	.004384	.003981	.008962	.004411	*	*	*	*	*	*
93	.004538	.010391	.005011	.004567	.010458	.005045	*	*	*	*	*	*
94	.005191	.012007	.005725	.005226	.012088	.005765	*	*	*	*	*	*
95	.006359	.014407	.007037	.006411	.014550	.007102	*	*	*	*	*	*
96	.007556	.017198	.008357	.007628	.017443	.008438	*	*	*	*	*	*
97	.009074	.020804	.010024	.009174	.021186	.010130	*	*	*	*	*	*
98	.011071	.025780	.012216	.011233	.026274	.012390	*	*	*	*	*	*
99	.013444	.031960	.014747	.013687	.032828	.014992	*	*	*	*	*	*
100	.016666	.040037	.018230	.017067	.041443	.018636	*	*	*	*	*	*
101	.021060	.050854	.023007	.021702	.052999	.023667	*	*	*	*	*	*
102	.027170	.066272	.029612	.028202	.069968	.030647	*	*	*	*	*	*
103	.035904	.087532	.039144	.037642	.094004	.040856	*	*	*	*	*	*
104	.046850	.118807	.050647	.050195	.132678	.053879	*	*	*	*	*	*
105	.060813	.155253	.065676	.066523	.178732	.071231	*	*	*	*	*	*
106	.083605	.204450	.091151	.095307	.267140	.101394	*	*	*	*	*	*
107	.107837	.266825	.117310	.123596	.317026	.133626	*	*	*	*	*	*
108	.153283	.356681	.169131	.187196	.496657	.201242	*	*	*	*	*	*
109	.210707	.461972	.236138	.264450	.732305	.282456	*	*	*	*	*	*

* Figure does not meet standards of reliability and precision.

Table 8. Standard errors of the average remaining lifetime: Iowa, 1989-91

Exact age in years	Total			White			All other					
							Total			Black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
0	.052	.074	.070	.053	.075	.071	*	*	*	*	*	*
1	.049	.069	.065	.049	.070	.065	*	*	*	*	*	*
2	.048	.069	.064	.049	.069	.065	*	*	*	*	*	*
3	.048	.068	.064	.049	.069	.064	*	*	*	*	*	*
4	.048	.068	.064	.048	.069	.064	*	*	*	*	*	*
5	.048	.068	.064	.048	.069	.064	*	*	*	*	*	*
6	.048	.068	.063	.048	.068	.064	*	*	*	*	*	*
7	.048	.068	.063	.048	.068	.064	*	*	*	*	*	*
8	.048	.068	.063	.048	.068	.064	*	*	*	*	*	*
9	.048	.068	.063	.048	.068	.063	*	*	*	*	*	*
10	.048	.067	.063	.048	.068	.063	*	*	*	*	*	*
11	.047	.067	.063	.048	.068	.063	*	*	*	*	*	*
12	.047	.067	.063	.048	.068	.063	*	*	*	*	*	*
13	.047	.067	.063	.048	.068	.063	*	*	*	*	*	*
14	.047	.067	.063	.048	.068	.063	*	*	*	*	*	*
15	.047	.067	.063	.047	.067	.063	*	*	*	*	*	*
16	.047	.067	.062	.047	.067	.063	*	*	*	*	*	*
17	.047	.066	.062	.047	.067	.063	*	*	*	*	*	*
18	.047	.066	.062	.047	.066	.062	*	*	*	*	*	*
19	.046	.066	.062	.047	.066	.062	*	*	*	*	*	*
20	.046	.065	.062	.046	.066	.062	*	*	*	*	*	*
21	.046	.065	.061	.046	.065	.062	*	*	*	*	*	*
22	.046	.064	.061	.046	.065	.062	*	*	*	*	*	*
23	.045	.064	.061	.046	.064	.061	*	*	*	*	*	*
24	.045	.064	.061	.046	.064	.061	*	*	*	*	*	*
25	.045	.063	.061	.045	.064	.061	*	*	*	*	*	*
26	.045	.063	.060	.045	.063	.061	*	*	*	*	*	*
27	.045	.062	.060	.045	.063	.061	*	*	*	*	*	*
28	.045	.062	.060	.045	.063	.060	*	*	*	*	*	*
29	.044	.062	.060	.045	.062	.060	*	*	*	*	*	*
30	.044	.062	.060	.044	.062	.060	*	*	*	*	*	*
31	.044	.061	.060	.044	.062	.060	*	*	*	*	*	*
32	.044	.061	.060	.044	.061	.060	*	*	*	*	*	*
33	.044	.061	.059	.044	.061	.060	*	*	*	*	*	*
34	.044	.061	.059	.044	.061	.060	*	*	*	*	*	*
35	.044	.060	.059	.044	.061	.059	*	*	*	*	*	*
36	.043	.060	.059	.044	.061	.059	*	*	*	*	*	*
37	.043	.060	.059	.043	.060	.059	*	*	*	*	*	*
38	.043	.060	.059	.043	.060	.059	*	*	*	*	*	*
39	.043	.060	.058	.043	.060	.059	*	*	*	*	*	*
40	.043	.059	.058	.043	.060	.058	*	*	*	*	*	*
41	.043	.059	.058	.043	.059	.058	*	*	*	*	*	*
42	.043	.059	.058	.043	.059	.058	*	*	*	*	*	*
43	.042	.059	.058	.043	.059	.058	*	*	*	*	*	*
44	.042	.058	.057	.042	.059	.058	*	*	*	*	*	*
45	.042	.058	.057	.042	.058	.057	*	*	*	*	*	*
46	.042	.058	.057	.042	.058	.057	*	*	*	*	*	*
47	.041	.057	.056	.042	.058	.057	*	*	*	*	*	*
48	.041	.057	.056	.041	.057	.056	*	*	*	*	*	*
49	.041	.056	.055	.041	.057	.056	*	*	*	*	*	*
50	.040	.056	.055	.041	.056	.055	*	*	*	*	*	*
51	.040	.055	.054	.040	.056	.055	*	*	*	*	*	*
52	.040	.055	.054	.040	.055	.054	*	*	*	*	*	*
53	.039	.054	.053	.039	.054	.054	*	*	*	*	*	*
54	.039	.054	.053	.039	.054	.053	*	*	*	*	*	*
55	.038	.053	.052	.039	.053	.052	*	*	*	*	*	*
56	.038	.052	.051	.038	.052	.052	*	*	*	*	*	*
57	.037	.052	.051	.038	.052	.051	*	*	*	*	*	*
58	.037	.051	.050	.037	.051	.050	*	*	*	*	*	*
59	.036	.050	.049	.037	.050	.050	*	*	*	*	*	*

Table 8. Standard errors of the average remaining lifetime: Iowa, 1989–91—Con.

Exact age in years	Total			White			All other					
							Total			Black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
60	.036	.049	.049	.036	.050	.049	*	*	*	*	*	*
61	.035	.049	.048	.036	.049	.048	*	*	*	*	*	*
62	.035	.048	.047	.035	.048	.047	*	*	*	*	*	*
63	.034	.047	.047	.035	.048	.047	*	*	*	*	*	*
64	.034	.047	.046	.034	.047	.046	*	*	*	*	*	*
65	.033	.046	.045	.034	.046	.045	*	*	*	*	*	*
66	.033	.046	.044	.033	.046	.045	*	*	*	*	*	*
67	.033	.045	.044	.033	.045	.044	*	*	*	*	*	*
68	.032	.045	.043	.032	.045	.043	*	*	*	*	*	*
69	.032	.044	.042	.032	.044	.043	*	*	*	*	*	*
70	.031	.044	.042	.031	.044	.042	*	*	*	*	*	*
71	.031	.043	.041	.031	.044	.041	*	*	*	*	*	*
72	.031	.043	.041	.031	.043	.041	*	*	*	*	*	*
73	.030	.043	.040	.030	.043	.040	*	*	*	*	*	*
74	.030	.042	.039	.030	.042	.039	*	*	*	*	*	*
75	.029	.042	.039	.029	.042	.039	*	*	*	*	*	*
76	.029	.042	.038	.029	.042	.038	*	*	*	*	*	*
77	.029	.042	.038	.029	.042	.038	*	*	*	*	*	*
78	.029	.042	.037	.029	.042	.037	*	*	*	*	*	*
79	.028	.042	.037	.028	.042	.037	*	*	*	*	*	*
80	.028	.042	.036	.028	.042	.036	*	*	*	*	*	*
81	.028	.042	.036	.028	.042	.036	*	*	*	*	*	*
82	.028	.043	.036	.028	.043	.035	*	*	*	*	*	*
83	.028	.043	.035	.028	.043	.035	*	*	*	*	*	*
84	.028	.044	.035	.028	.044	.035	*	*	*	*	*	*
85	.028	.045	.035	.028	.045	.035	*	*	*	*	*	*
86	.028	.046	.035	.028	.046	.035	*	*	*	*	*	*
87	.029	.048	.035	.029	.048	.035	*	*	*	*	*	*
88	.030	.050	.036	.029	.049	.036	*	*	*	*	*	*
89	.030	.052	.037	.030	.052	.036	*	*	*	*	*	*
90	.031	.055	.038	.031	.055	.037	*	*	*	*	*	*
91	.033	.059	.039	.033	.059	.039	*	*	*	*	*	*
92	.035	.064	.041	.035	.063	.041	*	*	*	*	*	*
93	.037	.069	.044	.037	.069	.043	*	*	*	*	*	*
94	.040	.076	.047	.040	.076	.047	*	*	*	*	*	*
95	.044	.085	.051	.044	.085	.051	*	*	*	*	*	*
96	.049	.096	.056	.049	.096	.056	*	*	*	*	*	*
97	.055	.109	.063	.055	.110	.063	*	*	*	*	*	*
98	.062	.126	.070	.062	.128	.071	*	*	*	*	*	*
99	.070	.147	.080	.071	.150	.081	*	*	*	*	*	*
100	.081	.174	.092	.083	.179	.094	*	*	*	*	*	*
101	.095	.207	.107	.098	.217	.110	*	*	*	*	*	*
102	.113	.251	.127	.118	.269	.132	*	*	*	*	*	*
103	.136	.307	.152	.144	.338	.159	*	*	*	*	*	*
104	.163	.377	.181	.176	.431	.193	*	*	*	*	*	*
105	.196	.456	.218	.218	.545	.238	*	*	*	*	*	*
106	.241	.552	.269	.275	.703	.300	*	*	*	*	*	*
107	.290	.665	.323	.339	.845	.370	*	*	*	*	*	*
108	.357	.792	.401	.436	1.134	.473	*	*	*	*	*	*
109	.402	.869	.454	.506	1.376	.545	*	*	*	*	*	*

* Figure does not meet standards of reliability and precision.

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