

IRISH LIFE TABLES

NOS. 9 AND 9A 1978 - 80

A Life Table is a method of deriving measures which are representative of average life expectancy prevailing at a given time. It is compiled in a manner that eliminates the effect of the current age composition of the population in question. This age composition may change over time and thus affect comparisons using other measures such as the number of deaths per 1,000 population.

A Life Table is a purely hypothetical calculation. The basic assumption is that a given cohort of births, 100,000, start in a given year. These are subject, as the survivors pass through each year of age, to the mortality rates prevailing for that age in the years for which the Life Table is being calculated. Thus, the Life Table deals with current mortality rates only and no assumptions are made about future changes. The mortality rates for each age are used to calculate how many of the cohort will reach each year of age until eventually all members of the cohort have died. This enables the total number of years lived by the cohort to be calculated. When this total is divided by the number of persons in the cohort, 100,000, the result is the average number of years lived by each member of the cohort or the mean expectation of life at birth. The total number of years lived by the cohort from any given age can also be calculated and, when divided by the number of survivors in the cohort entering upon that year of age, the figure obtained is the expectation of life in years for those persons.

Life Tables were constructed for males and females which are representative of the mortality experience in Ireland during the three years 1978 to 1980, using the statistics of ages from the 1979 Census of Population and deaths enumerated in the three years 1978, 1979 and 1980. Two tables were constructed, number 9 relating to the entire State and number 9A relating to the Urban Districts of the State. References to previous Life Tables are given below.

The Urban Districts Table relates to the deaths of residents and the population residing within the boundaries of County and Municipal Boroughs and Urban Districts. This is a more limited coverage of areas than that of the Aggregate Town Area used in Census Reports (cf. the Explanatory Notes to Volume 1 of the 1981 Census). This arises from the fact that deaths can be assigned to place of residence only by strict reference to legally defined boundaries.

PUBLICATIONS CONTAINING LIFE TABLES NOS. 1-8

<i>LIFE TABLE</i>	<i>PUBLICATION</i>
<i>No. 1</i>	<i>CENSUS OF POPULATION OF IRELAND, 1926 - Vol. V (Part 1).</i>
<i>No. 2</i>	<i>CENSUS OF POPULATION OF IRELAND, 1936 - Vol. V (Part 1).</i>
<i>No. 3</i>	<i>REGISTER OF POPULATION OF IRELAND, 1941.</i>
<i>No. 4</i>	<i>CENSUS OF POPULATION OF IRELAND, 1946 - Vol. V (Part 1).</i>
<i>No. 5</i>	<i>CENSUS OF POPULATION OF IRELAND - GENERAL REPORT 1946 AND 1951.</i>
<i>No. 6</i>	<i>IRISH STATISTICAL BULLETIN - JUNE, 1965.</i>
<i>No. 7</i>	<i>CENSUS OF POPULATION OF IRELAND, 1971 - Vol. II. IRISH STATISTICAL BULLETIN - MARCH, 1972.</i>
<i>No. 8</i>	<i>IRISH STATISTICAL BULLETIN - MARCH, 1976.</i>

COMPARISON WITH IRISH LIFE TABLES NOS. 8 AND 8A 1970 - 72

Values of the rate of mortality (q_x) and the expectation of life (e_x^0) at ages 0, 10, 20-90 are shown in Tables 1 and 2.

Table 1 reviews the rate of mortality which is the probability that a person who reaches a particular age dies within a year. The table shows relatively high mortality in the first year of life, followed by a decline at 10 years. The mortality rate then becomes larger with increasing age.

TABLE 1 - RATE OF MORTALITY (q_x) 1970-72 AND 1978-80.

Age	Ireland				Urban Districts			
	Males		Females		Males		Females	
	1970-72	1978-80	1970-72	1978-80	1970-72	1978-80	1970-72	1978-80
0	.02078	.01435	.01656	.01142	.02304	.01628	.01773	.01265
10	.00037	.00033	.00023	.00019	.00038	.00039	.00020	.00019
20	.00116	.00107	.00050	.00040	.00101	.00102	.00043	.00037
30	.00119	.00115	.00071	.00055	.00125	.00138	.00058	.00078
40	.00271	.00242	.00176	.00149	.00322	.00260	.00188	.00165
50	.00772	.00736	.00526	.00439	.00899	.00880	.00576	.00479
60	.02096	.02042	.01290	.01152	.02404	.02438	.01389	.01357
70	.05107	.05114	.03125	.02933	.06050	.05864	.03139	.03034
80	.12168	.12625	.09679	.09183	.12432	.12616	.09287	.08882
90	.26246	.25624	.22625	.21597	.25593	.22480	.21019	.19722

TABLE 2 - EXPECTATION OF LIFE (e_x^0) 1970-72 AND 1978-80.

Age	Ireland				Urban Districts			
	Males		Females		Males		Females	
	1970-72	1978-80	1970-72	1978-80	1970-72	1978-80	1970-72	1978-80
0	68.77	69.47	73.52	74.95	67.37	68.06	73.35	74.33
10	60.62	60.80	65.11	66.08	59.36	59.52	65.02	65.59
20	50.97	51.14	55.32	56.24	49.68	49.84	55.23	55.74
30	41.52	41.70	45.62	46.47	40.16	40.38	45.52	46.00
40	32.06	32.23	36.04	36.81	30.68	31.00	35.90	36.40
50	23.28	23.30	26.96	27.62	22.08	22.19	26.88	27.31
60	15.60	15.66	18.68	19.19	14.76	14.91	18.75	19.07
70	9.66	9.47	11.54	11.89	9.20	9.19	11.75	12.03
80	5.35	5.29	6.19	6.42	5.36	5.55	6.47	6.73
90	2.82	2.92	3.24	3.38	2.90	3.40	3.49	3.71

For females for the whole country and the Urban Districts the values for the rate of mortality were lower in 1978-80 than in 1970-72 in all cases except for a slight increase at age 30 in the Urban Districts. For males for the whole country the rate of mortality showed a decrease at ages 0 to 60 and 90 but increases at ages 70 and 80. In the Urban Districts there were reductions only at ages 0, 40, 50, 70 and 90 with slight increases at the other ages.

From Table 2 it can be seen that expectation of life has increased at all ages for females in both life tables. For males in the whole country there were increases at all ages except 70 and 80 where there were reductions in life expectation. In the Urban Districts for males there was a slight reduction in life expectation at age 70 but increases at all other ages.

COMPARISON WITH IRISH LIFE TABLES NOS. 1- 9

The expectation of life at certain ages for Irish Life Tables 1-9 are given in Table 3.

The expectation of life at birth increased from 57.4 years to 69.5 years for males and from 57.9 years to 75.0 years for females over the 53 year period shown in this table. The increases in female expectation were greater than the increases in the male expectation at all ages with the excess in female expectation at birth increasing from 0.5 years in 1925-27 to 5.5 years in 1978-80 and at age 75 years from 0.7 years to 1.7 years. Since the 1960-62 period male expectation at ages 5 and above has remained almost static compared with steady increases for females. It can also be seen that as age increases the difference between male and female life expectation decreases.

TABLE 3 - EXPECTATION OF LIFE AT VARIOUS AGES, 1926-1979.

Irish Life Table No.	Period	Age in Years										
		0	5	10	15	20	25	35	45	55	65	75
MALES:												
1	1925-27	57.4	59.5	55.2	50.7	46.4	42.4	34.4	26.5	19.1	12.8	7.7
2	1935-37	58.2	60.1	55.8	51.2	46.8	42.7	34.4	26.3	18.8	12.5	7.9
3	1940-42	59.0	60.7	56.3	51.6	47.2	43.1	34.8	26.5	18.8	12.3	7.3
4	1945-47	60.5	61.5	56.9	52.2	47.8	43.5	34.9	26.4	18.6	12.0	6.9
5	1950-52	64.5	63.6	58.8	54.0	49.3	44.8	35.8	27.0	19.0	12.1	6.8
6	1960-62	68.1	65.7	60.8	56.0	51.1	46.4	37.0	27.8	19.5	12.6	7.1
7	1965-67	68.6	65.7	60.8	56.0	51.2	46.4	36.9	27.7	19.3	12.4	7.3
8	1970-72	68.8	65.5	60.6	55.7	51.0	46.3	36.8	27.6	19.3	12.4	7.3
9	1978-80	69.5	65.7	60.8	55.9	51.1	46.4	36.9	27.7	19.3	12.4	7.1
FEMALES:												
1	1925-27	57.9	59.2	54.9	50.5	46.4	42.4	34.7	27.0	19.6	13.4	8.4
2	1935-37	59.6	60.4	56.1	51.6	47.3	43.2	35.2	27.2	19.6	13.1	8.4
3	1940-42	61.0	61.4	56.9	52.4	48.0	44.0	35.8	27.6	19.8	13.2	8.1
4	1945-47	62.4	62.5	57.9	53.2	48.8	44.7	36.3	28.0	20.1	13.1	7.7
5	1950-52	67.1	65.4	60.6	55.8	51.2	46.6	37.7	28.9	20.6	13.3	7.6
6	1960-62	71.9	69.0	64.1	59.2	54.3	49.5	39.9	30.7	22.1	14.4	8.1
7	1965-67	72.9	69.6	64.8	59.8	54.9	50.1	40.4	31.1	22.4	14.7	8.4
8	1970-72	73.5	70.0	65.1	60.2	55.3	50.5	40.8	31.4	22.7	15.0	8.5
9	1978-80	75.0	71.0	66.1	61.1	56.2	51.4	41.6	32.1	23.3	15.4	8.8

METHOD OF CONSTRUCTION

The method of construction of the present Life Tables was the same as that employed in preparing the corresponding Tables Nos. 8 and 8A (which were based on the 1971 Census and deaths in the years 1970, 1971 and 1972). Although Census date was the 1st April, 1979, the population was not adjusted to bring it to the middle of the year because, as a result of the large seasonal passenger movement, there was no reason to believe that the population on the 30th June, 1979 was closer than the population on Census date to the average population for the years 1978 - 80.

At ages 0-7 years the system adopted was similar to that used in Life Tables Nos. 8 and 8A and was as follows: The rate of mortality at age 0, q_0 , was calculated simply from the population aged 0 and deaths under 1 year of age in 1978-80, the appropriate "exposure to risk" being allowed for deaths at ages under 1 week, 1 week and under 1 month, 1 month and under 2 months, etc. The central mortality rate for age 1, m_1 , was calculated from the population aged 1 and deaths of children aged 1 in 1978-80 and the mortality rate q_1 derived from it using the relationship $q_1 = \frac{m_1}{1 + \frac{1}{2} m_1}$. The rate for age 2, q_2 , was obtained from the corresponding rate in the 1970-72 Table as follows:-

$$q_2(1979) = q_2(1971) \times \frac{(\text{Actual deaths at ages 1, 2 and 3})}{(\text{Expected deaths at ages 1, 2 and 3})}$$

The expected deaths in the denominator of this expression were calculated by applying the 1971 central mortality rates to the 1979 population aged 1, 2 and 3. Similarly $q_3(1979)$ was obtained from $q_3(1971)$ by multiplying by the ratio of actual to expected deaths for ages 1, 2, 3, 4 and 5. This procedure was also applied to obtain q_x for ages 4, 5, 6 and 7.

The main portion of the Life Tables was calculated using the method of osculatory interpolation between pivotal values, used by Mr. George King, and described in the Registrar General's Decennial Supplement, England and Wales 1914. Deaths (for 1978, 1979 and 1980 combined) were added into five year groups, namely 5 to 9 years, 10 to 14 years, 15 to 19 years, etc. and from these pivotal values were calculated for ages 12, 17, 22, 27 - up to 92 years, using the formula:-

$$V_x = 0.216 W_x - 0.008 (W_x - 5 + W_x + 5)$$

where V_x denotes the pivotal value and W_x is the five year group total centred at age X . Pivotal values of the population at ages 12, 17, 22-92 were obtained in the same way and from these pivotal values of the central mortality rates m_x and hence q_x were calculated at 5 year intervals. In order to obtain functions of smooth graduation in the case of the Tables for males and females for the whole State, it was necessary to redistribute the deaths in a small number of quinquennial groups while keeping the totals in the corresponding decennial groups unaltered. To do this the number of expected deaths in the 1979 population in each quinquennial age-group was calculated by using the 1971 Life Tables. The actual number of deaths in the decennial group was then divided pro rata with the expected numbers in each of the two quinquennial groups. No such adjustment was necessary in the case of the Tables for the Urban Districts.

The method used in 1971 for equating actual and expected deaths at very old ages proved satisfactory from this point of view and was again used on this occasion. This method was as follows: A second degree curve was obtained, passing through the pivotal value of q_{72} and determined in such a manner that the sum of the weighted squares between the later pivotal values and the corresponding values of q_x on this curve should be a minimum. For each weight the square of the number of deaths in the quinquennial interval containing the q_x was adopted. The values of q_x on this curve were taken as new pivotal values.

Osculatory interpolation was used to calculate the values of q_x from $x = 7$ to $x = 87$. The function $\log(q_x + 0.1)$ was used in the interpolation. At ages above 87 years the values of q_x were obtained from the second degree curve used to determine the pivotal values. Although nine places of decimals were retained in the calculation of the q 's the values were subsequently rounded off to five decimal places, and these values were used in the computation of the remaining columns of the Life Tables.

THE ACTUAL - EXPECTED TEST

A measure of the closeness with which the Life Table reflects the mortality in the population is obtained by comparing the actual numbers of deaths, with those expected on the basis of the Life Table death rates. This is done in Table 4.

TABLE 4 - THE ACTUAL - EXPECTED TEST.

Ages	Males			Females		
	Deaths 1978-80 Annual Average		Deviation: Expected Less Actual	Deaths 1978-80 Annual Average		Deviation: Expected Less Actual
	Actual	Expected		Actual	Expected	
0-4	631	627	- 4	490	481	- 9
5-9	68	70	+ 2	43	44	+ 1
10-14	67	69	+ 2	29	31	+ 2
15-19	136	134	- 2	52	52	-
20-24	158	158	-	55	55	-
25-29	150	149	- 1	57	57	-
30-34	133	134	+ 1	69	68	- 1
35-39	160	160	-	87	88	+ 1
40-44	246	243	- 3	149	149	-
45-54	1,102	1,104	+ 2	653	653	-
55-64	2,874	2,879	+ 5	1,650	1,652	+ 2
65-74	5,418	5,433	+ 15	3,473	3,496	+ 23
75-84	5,243	5,308	+ 65	5,324	5,402	+ 78
85-94	1,936	1,925	- 11	2,811	2,750	- 61
95-99	124	174	+ 50	258	337	+ 79
Total 0-99 years	18,446	18,567	+ 121	15,200	15,315	+ 115

NOTATION

Standard Life Table notation is used in the Tables

l_x = the number of persons surviving to exact age x out of 100,000 aged 0.

d_x = the number of deaths in the year of age x to $x + 1$ out of l_x persons who enter that year.

p_x = the probability of living a year, or the ratio of the number completing the year of age x to $x + 1$ to the number entering on the year.

q_x = the rate of mortality, or the probability of dying in a year. It is the ratio of the number of deaths in the year of age x to $x + 1$ to the number entering on the year.

L_x = the population to be expected according to the Life Table aged between x and $x + 1$ years, assuming that 100,000 births occurred each year.

T_x = the population to be expected according to the Life Table above age x , assuming that 100,000 births occurred each year.

e_x^0 = the expectation of life in years, or the total future life time in years which will on average be passed through by persons aged exactly x .

The following relations hold between these quantities:-

$$p_x = 1 - q_x, \quad l_x - l_{x+1} = d_x, \quad L_x = \frac{1}{2}(l_x + l_{x+1}) \quad (x > 0),$$

$$T_x = \sum_{y \geq x} L_y, \quad e_x^0 = T_x / l_x$$

IRISH LIFE TABLE NO. 9 1978-80 - MALES

Age x	l_x	d_x	p_x	q_x	L_x	T_x	e_x^0	Age x
0	100,000	1,435	0.98565	0.01435	98,751	6,946,566	69.47	0
1	98,565	116	0.99882	0.00118	98,507	6,847,815	69.48	1
2	98,449	78	0.99920	0.00080	98,409	6,749,308	68.56	2
3	98,370	50	0.99949	0.00051	98,345	6,650,899	67.61	3
4	98,320	49	0.99950	0.00050	98,295	6,552,554	66.65	4
5	98,271	42	0.99957	0.00043	98,250	6,454,258	65.68	5
6	98,228	40	0.99960	0.00040	98,209	6,356,009	64.71	6
7	98,189	40	0.99959	0.00041	98,169	6,257,800	63.73	7
8	98,149	36	0.99963	0.00037	98,131	6,159,631	62.76	8
9	98,113	34	0.99966	0.00034	98,096	6,061,500	61.78	9
10	98,079	32	0.99967	0.00033	98,063	5,963,405	60.80	10
11	98,047	33	0.99966	0.00034	98,030	5,865,342	59.82	11
12	98,013	36	0.99963	0.00037	97,995	5,767,312	58.84	12
13	97,977	43	0.99957	0.00043	97,956	5,669,317	57.86	13
14	97,934	52	0.99947	0.00053	97,908	5,571,361	56.89	14
15	97,882	63	0.99936	0.00064	97,851	5,473,453	55.92	15
16	97,820	74	0.99925	0.00075	97,783	5,375,602	54.95	16
17	97,746	83	0.99915	0.00085	97,704	5,277,819	54.00	17
18	97,663	91	0.99907	0.00093	97,618	5,180,115	53.04	18
19	97,572	98	0.99900	0.00100	97,523	5,082,497	52.09	19
20	97,474	105	0.99893	0.00107	97,422	4,984,974	51.14	20
21	97,370	110	0.99887	0.00113	97,315	4,887,552	50.20	21
22	97,260	115	0.99882	0.00118	97,202	4,790,237	49.25	22
23	97,145	118	0.99879	0.00121	97,086	4,693,034	48.31	23
24	97,027	119	0.99877	0.00123	96,968	4,595,948	47.37	24
25	96,908	120	0.99876	0.00124	96,848	4,498,980	46.43	25
26	96,788	120	0.99876	0.00124	96,728	4,402,132	45.48	26
27	96,668	120	0.99876	0.00124	96,608	4,305,404	44.54	27
28	96,548	118	0.99878	0.00122	96,489	4,208,796	43.59	28
29	96,430	114	0.99881	0.00119	96,373	4,112,307	42.65	29
30	96,315	111	0.99885	0.00115	96,260	4,015,935	41.70	30
31	96,204	109	0.99886	0.00114	96,150	3,919,675	40.74	31
32	96,095	111	0.99884	0.00116	96,039	3,823,525	39.79	32
33	95,984	117	0.99878	0.00122	95,925	3,727,486	38.83	33
34	95,867	125	0.99870	0.00130	95,804	3,631,560	37.88	34
35	95,742	135	0.99859	0.00141	95,674	3,535,756	36.93	35
36	95,607	148	0.99845	0.00155	95,532	3,440,082	35.98	36
37	95,458	164	0.99828	0.00172	95,376	3,344,549	35.04	37
38	95,294	183	0.99808	0.00192	95,202	3,249,173	34.10	38
39	95,111	205	0.99784	0.00216	95,008	3,153,971	33.16	39
40	94,906	229	0.99758	0.00242	94,791	3,058,963	32.23	40
41	94,676	256	0.99730	0.00270	94,548	2,964,172	31.31	41
42	94,421	283	0.99701	0.00299	94,279	2,869,624	30.39	42
43	94,138	307	0.99674	0.00326	93,984	2,775,345	29.48	43
44	93,831	330	0.99649	0.00351	93,666	2,681,360	28.58	44
45	93,501	355	0.99620	0.00380	93,323	2,587,695	27.68	45
46	93,146	390	0.99582	0.00418	92,951	2,494,371	26.78	46
47	92,756	438	0.99528	0.00472	92,537	2,401,420	25.89	47
48	92,318	504	0.99454	0.00546	92,066	2,308,883	25.01	48
49	91,814	583	0.99365	0.00635	91,522	2,216,817	24.14	49
50	91,231	671	0.99264	0.00736	90,895	2,125,295	23.30	50
51	90,559	763	0.99158	0.00842	90,178	2,034,400	22.46	51
52	89,797	853	0.99050	0.00950	89,370	1,944,222	21.65	52
53	88,944	939	0.98944	0.01056	88,474	1,854,852	20.85	53
54	88,004	1,024	0.98836	0.01164	87,492	1,766,378	20.07	54

IRISH LIFE TABLE NO. 9 1978-80 - MALES (contd.)

Age x	l_x	d_x	P_x	q_x	L_x	T_x	e_x^o	Age x
55	86,980	1,111	0.98722	0.01278	86,425	1,678,886	19.30	55
56	85,869	1,204	0.98598	0.01402	85,267	1,592,461	18.55	56
57	84,665	1,304	0.98459	0.01541	84,013	1,507,194	17.80	57
58	83,361	1,413	0.98305	0.01695	82,655	1,423,181	17.07	58
59	81,949	1,525	0.98139	0.01861	81,186	1,340,526	16.36	59
60	80,423	1,642	0.97958	0.02042	79,602	1,259,340	15.66	60
61	78,781	1,762	0.97764	0.02236	77,900	1,179,738	14.97	61
62	77,020	1,883	0.97555	0.02445	76,078	1,101,837	14.31	62
63	75,136	1,998	0.97340	0.02660	74,137	1,025,759	13.65	63
64	73,138	2,107	0.97120	0.02880	72,085	951,622	13.01	64
65	71,031	2,218	0.96878	0.03122	69,922	879,537	12.38	65
66	68,814	2,340	0.96599	0.03401	67,644	809,615	11.77	66
67	66,474	2,482	0.96266	0.03734	65,233	741,971	11.16	67
68	63,992	2,646	0.95865	0.04135	62,668	676,739	10.58	68
69	61,345	2,821	0.95402	0.04598	59,935	614,070	10.01	69
70	58,524	2,993	0.94886	0.05114	57,028	554,135	9.47	70
71	55,531	3,150	0.94328	0.05672	53,956	497,108	8.95	71
72	52,381	3,278	0.93741	0.06259	50,742	443,151	8.46	72
73	49,103	3,377	0.93123	0.06877	47,415	392,409	7.99	73
74	45,726	3,448	0.92460	0.07540	44,002	344,994	7.54	74
75	42,278	3,488	0.91749	0.08251	40,534	300,992	7.12	75
76	38,790	3,495	0.90990	0.09010	37,043	260,458	6.71	76
77	35,295	3,466	0.90181	0.09819	33,562	223,415	6.33	77
78	31,829	3,402	0.89311	0.10689	30,128	189,853	5.96	78
79	28,427	3,305	0.88374	0.11626	26,775	159,725	5.62	79
80	25,122	3,172	0.87375	0.12625	23,536	132,950	5.29	80
81	21,950	3,003	0.86321	0.13679	20,449	109,414	4.98	81
82	18,948	2,800	0.85222	0.14778	17,548	88,965	4.70	82
83	16,148	2,572	0.84069	0.15931	14,861	71,417	4.42	83
84	13,575	2,328	0.82853	0.17147	12,411	56,555	4.17	84
85	11,248	2,072	0.81576	0.18424	10,211	44,144	3.92	85
86	9,175	1,813	0.80244	0.19756	8,269	33,932	3.70	86
87	7,363	1,556	0.78863	0.21137	6,585	25,663	3.49	87
88	5,806	1,311	0.77423	0.22577	5,151	19,079	3.29	88
89	4,496	1,082	0.75928	0.24072	3,954	13,928	3.10	89
90	3,413	875	0.74376	0.25624	2,976	9,973	2.92	90
91	2,539	691	0.72768	0.27232	2,193	6,997	2.76	91
92	1,847	534	0.71105	0.28895	1,580	4,804	2.60	92
93	1,314	402	0.69385	0.30615	1,113	3,224	2.45	93
94	911	295	0.67610	0.32390	764	2,111	2.32	94
95	616	211	0.65779	0.34221	511	1,348	2.19	95
96	405	146	0.63891	0.36109	332	837	2.06	96
97	259	99	0.61948	0.38052	210	505	1.95	97
98	160	64	0.59948	0.40052	128	295	1.84	98
99	96	40	0.57893	0.42107	76	167	1.73	99
100	56	25	0.55782	0.44218	43	91	1.63	100
101	31	14	0.53615	0.46385	24	47	1.52	101
102	17	8	0.51392	0.48608	13	23	1.41	102
103	9	4	0.49112	0.50888	6	11	1.27	103
104	4	2	0.46777	0.53223	3	5	1.07	104
105	2	1	0.44386	0.55614	1	1	0.72	105

IRISH LIFE TABLE NO. 9 1978-80 - FEMALES

Age x	l_x	d_x	p_x	q_x	L_x	T_x	e_x^o	Age x
0	100,000	1,142	0.98858	0.01142	99,023	7,495,464	74.95	0
1	98,858	86	0.99913	0.00087	98,815	7,396,441	74.82	1
2	98,772	59	0.99941	0.00059	98,743	7,297,626	73.88	2
3	98,714	45	0.99955	0.00045	98,691	7,198,883	72.93	3
4	98,669	40	0.99959	0.00041	98,649	7,100,192	71.96	4
5	98,628	28	0.99972	0.00028	98,614	7,001,543	70.99	5
6	98,600	25	0.99974	0.00026	98,588	6,902,929	70.01	6
7	98,575	29	0.99971	0.00029	98,561	6,804,341	69.03	7
8	98,546	25	0.99975	0.00025	98,534	6,705,780	68.05	8
9	98,521	21	0.99978	0.00022	98,511	6,607,246	67.06	9
10	98,500	19	0.99981	0.00019	98,491	6,508,736	66.08	10
11	98,481	17	0.99983	0.00017	98,473	6,410,245	65.09	11
12	98,464	17	0.99983	0.00017	98,456	6,311,772	64.10	12
13	98,448	18	0.99981	0.00019	98,438	6,213,316	63.11	13
14	98,429	22	0.99978	0.00022	98,418	6,114,878	62.12	14
15	98,407	26	0.99974	0.00026	98,394	6,016,460	61.14	15
16	98,381	30	0.99969	0.00031	98,366	5,918,065	60.15	16
17	98,351	34	0.99966	0.00034	98,334	5,819,699	59.17	17
18	98,318	36	0.99964	0.00036	98,300	5,721,365	58.19	18
19	98,282	38	0.99962	0.00038	98,263	5,623,065	57.21	19
20	98,244	39	0.99960	0.00040	98,225	5,524,802	56.24	20
21	98,205	41	0.99959	0.00041	98,185	5,426,578	55.26	21
22	98,164	42	0.99957	0.00043	98,143	5,328,393	54.28	22
23	98,123	43	0.99956	0.00044	98,101	5,230,250	53.30	23
24	98,080	44	0.99956	0.00044	98,058	5,132,148	52.33	24
25	98,036	44	0.99955	0.00045	98,014	5,034,091	51.35	25
26	97,992	45	0.99954	0.00046	97,969	4,936,076	50.37	26
27	97,947	47	0.99952	0.00048	97,923	4,838,107	49.40	27
28	97,900	49	0.99950	0.00050	97,876	4,740,184	48.42	28
29	97,851	51	0.99948	0.00052	97,826	4,642,308	47.44	29
30	97,800	54	0.99945	0.00055	97,773	4,544,483	46.47	30
31	97,746	58	0.99941	0.00059	97,717	4,446,710	45.49	31
32	97,688	62	0.99937	0.00063	97,657	4,348,992	44.52	32
33	97,626	67	0.99932	0.00068	97,593	4,251,335	43.55	33
34	97,560	72	0.99926	0.00074	97,524	4,153,742	42.58	34
35	97,488	78	0.99920	0.00080	97,449	4,056,218	41.61	35
36	97,410	86	0.99912	0.00088	97,367	3,958,769	40.64	36
37	97,324	97	0.99901	0.00099	97,276	3,861,402	39.68	37
38	97,228	110	0.99887	0.00113	97,172	3,764,126	38.71	38
39	97,117	127	0.99870	0.00130	97,054	3,666,953	37.76	39
40	96,991	145	0.99851	0.00149	96,918	3,569,899	36.81	40
41	96,846	164	0.99830	0.00170	96,764	3,472,981	35.86	41
42	96,682	185	0.99809	0.00191	96,589	3,376,217	34.92	42
43	96,497	206	0.99787	0.00213	96,394	3,279,628	33.99	43
44	96,291	227	0.99764	0.00236	96,178	3,183,234	33.06	44
45	96,064	250	0.99740	0.00260	95,940	3,087,056	32.14	45
46	95,815	275	0.99713	0.00287	95,677	2,991,116	31.22	46
47	95,540	305	0.99681	0.00319	95,387	2,895,439	30.31	47
48	95,235	338	0.99645	0.00355	95,066	2,800,052	29.40	48
49	94,897	375	0.99604	0.00396	94,709	2,704,986	28.50	49
50	94,522	415	0.99561	0.00439	94,314	2,610,276	27.62	50
51	94,106	458	0.99514	0.00486	93,877	2,515,963	26.74	51
52	93,648	502	0.99464	0.00536	93,397	2,422,085	25.86	52
53	93,147	545	0.99415	0.00585	92,874	2,328,688	25.00	53
54	92,602	586	0.99367	0.00633	92,309	2,235,814	24.14	54

IRISH LIFE TABLE NO. 9 1978-80 - FEMALES (contd.)

Age x	l_x	d_x	p_x	q_x	L_x	T_x	e_x^o	Age x
55	92,015	632	0.99314	0.00686	91,700	2,143,505	23.30	55
56	91,384	685	0.99251	0.00749	91,042	2,051,805	22.45	56
57	90,699	750	0.99174	0.00826	90,325	1,960,764	21.62	57
58	89,950	829	0.99079	0.00921	89,535	1,870,439	20.79	58
59	89,121	919	0.98969	0.01031	88,662	1,780,904	19.98	59
60	88,202	1,016	0.98848	0.01152	87,694	1,692,242	19.19	60
61	87,186	1,116	0.98720	0.01280	86,628	1,604,548	18.40	61
62	86,070	1,215	0.98589	0.01411	85,463	1,517,920	17.64	62
63	84,855	1,304	0.98463	0.01537	84,203	1,432,458	16.88	63
64	83,551	1,387	0.98340	0.01660	82,858	1,348,255	16.14	64
65	82,165	1,473	0.98207	0.01793	81,428	1,265,397	15.40	65
66	80,692	1,573	0.98050	0.01950	79,905	1,183,968	14.67	66
67	79,118	1,697	0.97855	0.02145	78,270	1,104,063	13.95	67
68	77,421	1,840	0.97623	0.02377	76,501	1,025,794	13.25	68
69	75,581	1,992	0.97364	0.02636	74,585	949,292	12.56	69
70	73,589	2,158	0.97067	0.02933	72,510	874,707	11.89	70
71	71,431	2,340	0.96725	0.03275	70,261	802,197	11.23	71
72	69,091	2,539	0.96325	0.03675	67,822	731,936	10.59	72
73	66,552	2,758	0.95856	0.04144	65,173	664,115	9.98	73
74	63,794	2,988	0.95315	0.04685	62,300	598,942	9.39	74
75	60,805	3,216	0.94711	0.05289	59,197	536,642	8.83	75
76	57,589	3,427	0.94050	0.05950	55,876	477,445	8.29	76
77	54,163	3,606	0.93341	0.06659	52,360	421,569	7.78	77
78	50,556	3,755	0.92573	0.07427	48,679	369,209	7.30	78
79	46,802	3,871	0.91729	0.08271	44,866	320,530	6.85	79
80	42,931	3,942	0.90817	0.09183	40,960	275,664	6.42	80
81	38,988	3,960	0.89844	0.10156	37,009	234,704	6.02	81
82	35,029	3,915	0.88823	0.11177	33,071	197,696	5.64	82
83	31,114	3,813	0.87746	0.12254	29,207	164,624	5.29	83
84	27,301	3,659	0.86596	0.13404	25,471	135,417	4.96	84
85	23,642	3,457	0.85379	0.14621	21,913	109,946	4.65	85
86	20,185	3,209	0.84102	0.15898	18,581	88,032	4.36	86
87	16,976	2,925	0.82771	0.17229	15,514	69,452	4.09	87
88	14,051	2,617	0.81376	0.18624	12,743	53,938	3.84	88
89	11,434	2,296	0.79920	0.20080	10,286	41,195	3.60	89
90	9,138	1,974	0.78403	0.21597	8,152	30,909	3.38	90
91	7,165	1,660	0.76824	0.23176	6,335	22,757	3.18	91
92	5,504	1,366	0.75184	0.24816	4,821	16,423	2.98	92
93	4,138	1,097	0.73483	0.26517	3,590	11,601	2.80	93
94	3,041	860	0.71720	0.28280	2,611	8,012	2.63	94
95	2,181	657	0.69895	0.30105	1,853	5,401	2.48	95
96	1,524	488	0.68010	0.31990	1,281	3,548	2.33	96
97	1,037	352	0.66063	0.33937	861	2,267	2.19	97
98	685	246	0.64054	0.35946	562	1,407	2.05	98
99	439	167	0.61984	0.38016	355	845	1.93	99
100	272	109	0.59853	0.40147	217	490	1.80	100
101	163	69	0.57661	0.42339	128	272	1.67	101
102	94	42	0.55407	0.44593	73	144	1.53	102
103	52	24	0.53092	0.46908	40	71	1.37	103
104	28	14	0.50715	0.49285	21	31	1.13	104
105	14	7	0.48277	0.51723	10	10	0.74	105

URBAN DISTRICTS LIFE TABLE NO. 9A 1978-80 - MALES

Age x	l_x	d_x	P_x	q_x	L_x	T_x	e_x^0	Age x
0	100,000	1,628	0.98372	0.01628	98,590	6,805,825	68.06	0
1	98,372	118	0.99880	0.00120	98,313	6,707,235	68.18	1
2	98,253	66	0.99933	0.00067	98,220	6,608,923	67.26	2
3	98,187	53	0.99946	0.00054	98,160	6,510,703	66.31	3
4	98,134	55	0.99944	0.00056	98,106	6,412,542	65.35	4
5	98,078	45	0.99954	0.00046	98,056	6,314,436	64.38	5
6	98,033	44	0.99956	0.00044	98,011	6,216,380	63.41	6
7	97,990	46	0.99953	0.00047	97,967	6,118,369	62.44	7
8	97,944	43	0.99956	0.00044	97,922	6,020,402	61.47	8
9	97,901	40	0.99959	0.00041	97,880	5,922,480	60.49	9
10	97,860	39	0.99961	0.00039	97,841	5,824,600	59.52	10
11	97,822	38	0.99961	0.00039	97,802	5,726,759	58.54	11
12	97,783	40	0.99960	0.00040	97,764	5,628,957	57.57	12
13	97,744	44	0.99955	0.00045	97,722	5,531,193	56.59	13
14	97,700	50	0.99949	0.00051	97,675	5,433,471	55.61	14
15	97,650	58	0.99941	0.00059	97,621	5,335,796	54.64	15
16	97,593	66	0.99933	0.00067	97,560	5,238,174	53.67	16
17	97,527	73	0.99925	0.00075	97,490	5,140,614	52.71	17
18	97,453	81	0.99916	0.00084	97,413	5,043,124	51.75	18
19	97,372	90	0.99907	0.00093	97,327	4,945,712	50.79	19
20	97,282	99	0.99898	0.00102	97,232	4,848,385	49.84	20
21	97,183	107	0.99890	0.00110	97,130	4,751,152	48.89	21
22	97,076	113	0.99884	0.00116	97,020	4,654,023	47.94	22
23	96,964	116	0.99880	0.00120	96,906	4,557,003	47.00	23
24	96,848	118	0.99878	0.00122	96,789	4,460,097	46.05	24
25	96,730	119	0.99877	0.00123	96,671	4,363,308	45.11	25
26	96,611	119	0.99876	0.00124	96,552	4,266,637	44.16	26
27	96,492	122	0.99874	0.00126	96,431	4,170,086	43.22	27
28	96,370	125	0.99871	0.00129	96,308	4,073,655	42.27	28
29	96,245	128	0.99867	0.00133	96,181	3,977,347	41.33	29
30	96,117	132	0.99862	0.00138	96,051	3,881,165	40.38	30
31	95,985	137	0.99857	0.00143	95,916	3,785,114	39.43	31
32	95,848	143	0.99850	0.00150	95,776	3,689,198	38.49	32
33	95,705	150	0.99843	0.00157	95,629	3,593,422	37.55	33
34	95,554	157	0.99836	0.00164	95,476	3,497,792	36.61	34
35	95,397	166	0.99826	0.00174	95,315	3,402,316	35.66	35
36	95,232	176	0.99815	0.00185	95,144	3,307,002	34.73	36
37	95,055	190	0.99800	0.00200	94,960	3,211,858	33.79	37
38	94,865	207	0.99782	0.00218	94,762	3,116,898	32.86	38
39	94,659	225	0.99763	0.00237	94,546	3,022,136	31.93	39
40	94,434	246	0.99740	0.00260	94,311	2,927,590	31.00	40
41	94,188	271	0.99712	0.00288	94,053	2,833,278	30.08	41
42	93,917	303	0.99678	0.00322	93,766	2,739,226	29.17	42
43	93,615	338	0.99639	0.00361	93,446	2,645,460	28.26	43
44	93,277	376	0.99597	0.00403	93,089	2,552,014	27.36	44
45	92,901	419	0.99549	0.00451	92,691	2,458,925	26.47	45
46	92,482	472	0.99490	0.00510	92,246	2,366,234	25.59	46
47	92,010	535	0.99418	0.00582	91,742	2,273,988	24.71	47
48	91,475	611	0.99332	0.00668	91,169	2,182,246	23.86	48
49	90,863	698	0.99232	0.00768	90,514	2,091,077	23.01	49
50	90,165	793	0.99120	0.00880	89,768	2,000,563	22.19	50
51	89,372	894	0.99000	0.01000	88,925	1,910,794	21.38	51
52	88,478	997	0.98873	0.01127	87,980	1,821,869	20.59	52
53	87,481	1,103	0.98739	0.01261	86,930	1,733,889	19.82	53
54	86,378	1,213	0.98596	0.01404	85,772	1,646,959	19.07	54

URBAN DISTRICTS LIFE TABLE NO. 9A 1978-80 - MALES (contd.)

Age x	l_x	d_x	p_x	q_x	L_x	T_x	e_x^0	Age x
55	85,165	1,326	0.98443	0.01557	84,503	1,561,187	18.33	55
56	83,840	1,440	0.98282	0.01718	83,120	1,476,685	17.61	56
57	82,400	1,555	0.98113	0.01887	81,622	1,393,565	16.91	57
58	80,845	1,668	0.97937	0.02063	80,011	1,311,943	16.23	58
59	79,177	1,778	0.97755	0.02245	78,288	1,231,932	15.56	59
60	77,399	1,887	0.97562	0.02438	76,456	1,153,644	14.91	60
61	75,512	1,999	0.97353	0.02647	74,513	1,077,188	14.27	61
62	73,513	2,115	0.97123	0.02877	72,456	1,002,675	13.64	62
63	71,398	2,229	0.96879	0.03121	70,284	930,220	13.03	63
64	69,170	2,336	0.96623	0.03377	68,002	859,936	12.43	64
65	66,834	2,444	0.96342	0.03658	65,611	791,934	11.85	65
66	64,389	2,560	0.96024	0.03976	63,109	726,323	11.28	66
67	61,829	2,688	0.95653	0.04347	60,485	663,214	10.73	67
68	59,142	2,833	0.95210	0.04790	57,725	602,728	10.19	68
69	56,309	2,985	0.94698	0.05302	54,816	545,003	9.68	69
70	53,323	3,127	0.94136	0.05864	51,760	490,187	9.19	70
71	50,197	3,241	0.93544	0.06456	48,576	438,427	8.73	71
72	46,956	3,312	0.92947	0.07053	45,300	389,851	8.30	72
73	43,644	3,340	0.92347	0.07653	41,974	344,551	7.89	73
74	40,304	3,334	0.91728	0.08272	38,637	302,577	7.51	74
75	36,970	3,296	0.91086	0.08914	35,322	263,940	7.14	75
76	33,674	3,228	0.90415	0.09585	32,061	228,618	6.79	76
77	30,447	3,132	0.89712	0.10288	28,881	196,557	6.46	77
78	27,314	3,012	0.88972	0.11028	25,808	167,676	6.14	78
79	24,302	2,869	0.88195	0.11805	22,868	141,868	5.84	79
80	21,434	2,704	0.87384	0.12616	20,082	119,000	5.55	80
81	18,730	2,521	0.86541	0.13459	17,469	98,919	5.28	81
82	16,209	2,323	0.85670	0.14330	15,047	81,450	5.03	82
83	13,886	2,115	0.84767	0.15233	12,828	66,402	4.78	83
84	11,771	1,903	0.83829	0.16171	10,819	53,574	4.55	84
85	9,867	1,692	0.82857	0.17143	9,021	42,755	4.33	85
86	8,176	1,484	0.81852	0.18148	7,434	33,733	4.13	86
87	6,692	1,284	0.80819	0.19181	6,050	26,300	3.93	87
88	5,408	1,095	0.79751	0.20249	4,861	20,250	3.74	88
89	4,313	921	0.78652	0.21348	3,853	15,389	3.57	89
90	3,392	763	0.77520	0.22480	3,011	11,536	3.40	90
91	2,630	622	0.76356	0.23644	2,319	8,525	3.24	91
92	2,008	499	0.75159	0.24841	1,759	6,206	3.09	92
93	1,509	393	0.73930	0.26070	1,312	4,447	2.95	93
94	1,116	305	0.72669	0.27331	963	3,135	2.81	94
95	811	232	0.71376	0.28624	695	2,171	2.68	95
96	579	173	0.70050	0.29950	492	1,477	2.55	96
97	405	127	0.68692	0.31308	342	985	2.43	97
98	278	91	0.67301	0.32699	233	643	2.31	98
99	187	64	0.65878	0.34122	155	410	2.19	99
100	123	44	0.64423	0.35577	102	254	2.06	100
101	80	29	0.62936	0.37064	65	153	1.92	101
102	50	19	0.61416	0.38584	40	88	1.76	102
103	31	12	0.59864	0.40136	25	48	1.55	103
104	18	8	0.58279	0.41721	15	23	1.25	104
105	11	5	0.56663	0.43337	8	8	0.78	105

URBAN DISTRICTS LIFE TABLE NO. 9A 1978-80 - FEMALES

Age x	l_x	d_x	P_x	q_x	L_x	T_x	e_x^0	Age x
0	100,000	1,265	0.98735	0.01265	98,911	7,433,401	74.33	0
1	98,735	115	0.99884	0.00116	98,677	7,334,490	74.28	1
2	98,620	71	0.99928	0.00072	98,584	7,235,813	73.37	2
3	98,549	57	0.99942	0.00058	98,520	7,137,228	72.42	3
4	98,492	49	0.99951	0.00049	98,467	7,038,708	71.47	4
5	98,443	27	0.99972	0.00028	98,429	6,940,241	70.50	5
6	98,416	26	0.99974	0.00026	98,403	6,841,811	69.52	6
7	98,390	28	0.99971	0.00029	98,376	6,743,409	68.54	7
8	98,361	24	0.99976	0.00024	98,349	6,645,033	67.56	8
9	98,338	21	0.99979	0.00021	98,327	6,546,683	66.57	9
10	98,317	19	0.99981	0.00019	98,307	6,448,356	65.59	10
11	98,298	18	0.99982	0.00018	98,289	6,350,049	64.60	11
12	98,280	18	0.99982	0.00018	98,271	6,251,760	63.61	12
13	98,262	19	0.99981	0.00019	98,252	6,153,490	62.62	13
14	98,243	21	0.99978	0.00022	98,232	6,055,237	61.64	14
15	98,221	25	0.99975	0.00025	98,209	5,957,005	60.65	15
16	98,197	28	0.99972	0.00028	98,183	5,858,796	59.66	16
17	98,169	31	0.99969	0.00031	98,154	5,760,613	58.68	17
18	98,139	33	0.99967	0.00033	98,122	5,662,460	57.70	18
19	98,106	34	0.99965	0.00035	98,089	5,564,337	56.72	19
20	98,072	36	0.99963	0.00037	98,054	5,466,249	55.74	20
21	98,036	38	0.99961	0.00039	98,017	5,368,195	54.76	21
22	97,998	41	0.99959	0.00041	97,977	5,270,178	53.78	22
23	97,957	44	0.99955	0.00045	97,935	5,172,201	52.80	23
24	97,913	47	0.99952	0.00048	97,890	5,074,266	51.82	24
25	97,866	51	0.99948	0.00052	97,841	4,976,377	50.85	25
26	97,815	55	0.99944	0.00056	97,788	4,878,536	49.88	26
27	97,760	59	0.99939	0.00061	97,731	4,780,748	48.90	27
28	97,701	65	0.99934	0.00066	97,669	4,683,018	47.93	28
29	97,636	70	0.99928	0.00072	97,601	4,585,349	46.96	29
30	97,566	76	0.99922	0.00078	97,528	4,487,748	46.00	30
31	97,489	82	0.99916	0.00084	97,448	4,390,220	45.03	31
32	97,407	87	0.99911	0.00089	97,364	4,292,772	44.07	32
33	97,320	90	0.99908	0.00092	97,275	4,195,408	43.11	33
34	97,231	90	0.99907	0.00093	97,186	4,098,133	42.15	34
35	97,141	91	0.99907	0.00093	97,095	4,000,947	41.19	35
36	97,050	94	0.99903	0.00097	97,003	3,903,852	40.23	36
37	96,956	103	0.99894	0.00106	96,904	3,806,849	39.26	37
38	96,853	118	0.99878	0.00122	96,794	3,709,945	38.31	38
39	96,735	137	0.99858	0.00142	96,666	3,613,152	37.35	39
40	96,597	160	0.99835	0.00165	96,518	3,516,485	36.40	40
41	96,438	184	0.99809	0.00191	96,346	3,419,968	35.46	41
42	96,254	209	0.99783	0.00217	96,149	3,323,622	34.53	42
43	96,045	234	0.99757	0.00243	95,928	3,227,473	33.60	43
44	95,811	260	0.99729	0.00271	95,681	3,131,544	32.68	44
45	95,551	288	0.99699	0.00301	95,407	3,035,863	31.77	45
46	95,264	317	0.99667	0.00333	95,105	2,940,456	30.87	46
47	94,947	349	0.99633	0.00367	94,772	2,845,350	29.97	47
48	94,598	381	0.99597	0.00403	94,407	2,750,578	29.08	48
49	94,217	414	0.99561	0.00439	94,010	2,656,171	28.19	49
50	93,803	449	0.99521	0.00479	93,579	2,562,161	27.31	50
51	93,354	489	0.99476	0.00524	93,110	2,468,582	26.44	51
52	92,865	536	0.99422	0.00578	92,597	2,375,472	25.58	52
53	92,329	590	0.99361	0.00639	92,034	2,282,875	24.73	53
54	91,739	647	0.99295	0.00705	91,416	2,190,841	23.88	54

URBAN DISTRICTS LIFE TABLE NO. 9A 1978-80 - FEMALES (contd.)

Age x	l_x	d_x	P_x	q_x	L_x	T_x	e_x^0	Age x
55	91,093	710	0.99221	0.00779	90,738	2,099,425	23.05	55
56	90,383	781	0.99136	0.00864	89,993	2,008,687	22.22	56
57	89,603	861	0.99039	0.00961	89,172	1,918,694	21.41	57
58	88,742	956	0.98922	0.01078	88,263	1,829,522	20.62	58
59	87,785	1,065	0.98787	0.01213	87,253	1,741,259	19.84	59
60	86,721	1,177	0.98643	0.01357	86,132	1,654,006	19.07	60
61	85,544	1,285	0.98498	0.01502	84,901	1,567,873	18.33	61
62	84,259	1,379	0.98363	0.01637	83,569	1,482,972	17.60	62
63	82,880	1,447	0.98254	0.01746	82,156	1,399,403	16.88	63
64	81,433	1,494	0.98165	0.01835	80,686	1,317,247	16.18	64
65	79,938	1,541	0.98072	0.01928	79,168	1,236,561	15.47	65
66	78,397	1,605	0.97952	0.02048	77,595	1,157,393	14.76	66
67	76,792	1,705	0.97780	0.02220	75,940	1,079,798	14.06	67
68	75,087	1,839	0.97551	0.02449	74,168	1,003,859	13.37	68
69	73,248	1,993	0.97280	0.02720	72,252	929,691	12.69	69
70	71,256	2,162	0.96966	0.03034	70,175	857,439	12.03	70
71	69,094	2,343	0.96609	0.03391	67,922	787,264	11.39	71
72	66,751	2,531	0.96208	0.03792	65,485	719,342	10.78	72
73	64,220	2,727	0.95754	0.04246	62,856	653,857	10.18	73
74	61,493	2,928	0.95239	0.04761	60,029	591,000	9.61	74
75	58,565	3,122	0.94670	0.05330	57,005	530,971	9.07	75
76	55,444	3,297	0.94054	0.05946	53,795	473,966	8.55	76
77	52,147	3,442	0.93399	0.06601	50,426	420,171	8.06	77
78	48,705	3,557	0.92697	0.07303	46,927	369,745	7.59	78
79	45,148	3,641	0.91935	0.08065	43,328	322,819	7.15	79
80	41,507	3,687	0.91118	0.08882	39,664	279,491	6.73	80
81	37,821	3,686	0.90253	0.09747	35,977	239,827	6.34	81
82	34,134	3,636	0.89347	0.10653	32,316	203,850	5.97	82
83	30,498	3,539	0.88395	0.11605	28,728	171,534	5.62	83
84	26,958	3,401	0.87385	0.12615	25,258	142,806	5.30	84
85	23,558	3,222	0.86321	0.13679	21,946	117,548	4.99	85
86	20,335	3,008	0.85208	0.14792	18,831	95,601	4.70	86
87	17,327	2,763	0.84052	0.15948	15,946	76,770	4.43	87
88	14,564	2,499	0.82844	0.17156	13,315	60,825	4.18	88
89	12,065	2,222	0.81586	0.18414	10,954	47,510	3.94	89
90	9,844	1,941	0.80278	0.19722	8,873	36,556	3.71	90
91	7,902	1,666	0.78921	0.21079	7,069	27,683	3.50	91
92	6,236	1,402	0.77514	0.22486	5,535	20,613	3.31	92
93	4,834	1,157	0.76057	0.23943	4,255	15,078	3.12	93
94	3,677	936	0.74550	0.25450	3,209	10,823	2.94	94
95	2,741	740	0.72994	0.27006	2,371	7,614	2.78	95
96	2,001	572	0.71388	0.28612	1,715	5,243	2.62	96
97	1,428	432	0.69732	0.30268	1,212	3,529	2.47	97
98	996	318	0.68027	0.31973	837	2,317	2.33	98
99	678	229	0.66272	0.33728	563	1,480	2.18	99
100	449	160	0.64467	0.35533	369	917	2.04	100
101	289	108	0.62612	0.37388	235	547	1.89	101
102	181	71	0.60708	0.39292	146	312	1.72	102
103	110	45	0.58754	0.41246	87	166	1.51	103
104	65	28	0.56750	0.43250	51	79	1.22	104
105	37	17	0.54697	0.45303	28	28	0.77	105