

TABLE 21 :—IRISH LIFE TABLE No. 4, 1945-47—MALES.

(For explanation of calculation see Memorandum on p. 249).

KEY TO THE NOTATION.

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.

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.

l_x = the number according to the life table surviving to exact age x .

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

L_x = the population according to the life table, or the years of life lived, in the year of age x to $x+1$.

T_x = the population, or the years of life lived, above the moment of age x .

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

The following relations hold between these quantities:—

$$p_x = 1 - q_x; l_x - l_{x+1} = d_x; L_x = \frac{1}{2}(l_x + l_{x+1}) \quad (x > 0); T_x = \sum_{y \geq x} L_y; e_x = T_x / l_x$$

Age x	l_x	d_x	p_x	q_x	L_x	T_x	e_x	Age x
0	100,000	7,534	.92466	.07534	94,145	6,047,258	60.47	0
1	92,466	729	.99212	.00788	92,101	5,953,113	64.38	1
2	91,737	415	.99548	.00452	91,530	5,861,012	63.89	2
3	91,322	269	.99705	.00295	91,187	5,769,482	63.18	3
4	91,053	198	.99782	.00218	90,954	5,678,295	62.36	4
5	90,855	154	.99830	.00170	90,778	5,587,341	61.50	5
6	90,701	128	.99859	.00141	90,637	5,496,563	60.60	6
7	90,573	113	.99875	.00125	90,517	5,405,926	59.69	7
8	90,460	104	.99885	.00115	90,408	5,315,409	58.76	8
9	90,356	98	.99892	.00108	90,307	5,225,001	57.83	9
10	90,258	93	.99897	.00103	90,211	5,134,694	56.89	10
11	90,165	91	.99899	.00101	90,120	5,044,483	55.95	11
12	90,074	95	.99895	.00105	90,026	4,954,363	55.00	12
13	89,979	110	.99878	.00122	89,924	4,864,337	54.06	13
14	89,869	131	.99854	.00146	89,804	4,774,413	53.13	14
15	89,738	157	.99825	.00175	89,659	4,684,609	52.20	15
16	89,581	183	.99796	.00204	89,490	4,594,950	51.29	16
17	89,398	206	.99770	.00230	89,295	4,505,460	50.40	17
18	89,192	225	.99748	.00252	89,079	4,416,165	49.51	18
19	88,967	243	.99727	.00273	88,846	4,327,086	48.64	19
20	88,724	260	.99707	.00293	88,594	4,238,240	47.77	20
21	88,464	275	.99689	.00311	88,326	4,149,646	46.91	21
22	88,189	287	.99675	.00325	88,046	4,061,320	46.05	22
23	87,902	294	.99666	.00334	87,755	3,973,274	45.20	23
24	87,608	297	.99661	.00339	87,459	3,885,519	44.35	24
25	87,311	299	.99658	.00342	87,162	3,798,060	43.50	25
26	87,012	298	.99657	.00343	86,863	3,710,898	42.65	26
27	86,714	300	.99654	.00346	86,564	3,624,035	41.79	27
28	86,414	300	.99653	.00347	86,264	3,537,471	40.94	28
29	86,114	300	.99652	.00348	85,964	3,451,207	40.08	29
30	85,814	299	.99652	.00348	85,664	3,365,243	39.22	30
31	85,515	299	.99650	.00350	85,366	3,279,579	38.35	31
32	85,216	303	.99644	.00356	85,064	3,194,213	37.48	32
33	84,913	312	.99633	.00367	84,757	3,109,149	36.62	33
34	84,601	321	.99621	.00379	84,441	3,024,392	35.75	34
35	84,280	333	.99605	.00395	84,113	2,939,951	34.88	35
36	83,947	347	.99587	.00413	83,774	2,855,838	34.02	36
37	83,600	362	.99567	.00433	83,419	2,772,064	33.16	37
38	83,238	379	.99545	.00455	83,048	2,688,645	32.30	38
39	82,859	397	.99521	.00479	82,661	2,605,597	31.45	39
40	82,462	417	.99494	.00506	82,253	2,522,936	30.60	40
41	82,045	441	.99463	.00537	81,825	2,440,683	29.75	41
42	81,604	468	.99427	.00573	81,370	2,358,858	28.91	42
43	81,136	499	.99385	.00615	80,886	2,277,488	28.07	43
44	80,637	535	.99337	.00663	80,370	2,196,602	27.24	44

TABLE 21 (contd.):—IRISH LIFE TABLE No. 4, 1945-47—MALES.

Age x	l_x	d_x	p_x	q_x	L_x	T_x	e_x	Age x
45	80,102	573	·99285	·00715	79,815	2,116,232	26·42	45
46	79,529	612	·99231	·00769	79,223	2,036,417	25·61	46
47	78,917	653	·99173	·00827	78,591	1,957,194	24·80	47
48	78,264	691	·99117	·00883	77,918	1,878,603	24·00	48
49	77,573	728	·99061	·00939	77,209	1,800,085	23·21	49
50	76,845	768	·99001	·00999	76,461	1,723,476	22·43	50
51	76,077	813	·98931	·01069	75,671	1,647,015	21·65	51
52	75,264	868	·98847	·01153	74,830	1,571,344	20·88	52
53	74,396	931	·98749	·01251	73,930	1,496,514	20·12	53
54	73,465	1,001	·98638	·01362	72,965	1,422,584	19·36	54
55	72,464	1,076	·98515	·01485	71,926	1,349,619	18·62	55
56	71,388	1,156	·98381	·01619	70,810	1,277,693	17·90	56
57	70,232	1,238	·98237	·01763	69,613	1,206,883	17·18	57
58	68,994	1,321	·98085	·01915	68,333	1,137,270	16·48	58
59	67,673	1,405	·97924	·02076	66,971	1,068,937	15·80	59
60	66,268	1,492	·97749	·02251	65,522	1,001,966	15·12	60
61	64,776	1,584	·97554	·02446	63,984	930,444	14·46	61
62	63,192	1,687	·97331	·02669	62,348	872,460	13·81	62
63	61,505	1,798	·97077	·02923	60,606	810,112	13·17	63
64	59,707	1,914	·96795	·03205	58,750	749,506	12·55	64
65	57,793	2,031	·96486	·03514	56,778	690,756	11·95	65
66	55,762	2,146	·96151	·03849	54,689	633,978	11·37	66
67	53,616	2,256	·95792	·04208	52,488	579,289	10·80	67
68	51,360	2,353	·95419	·04581	50,183	526,801	10·26	68
69	49,007	2,436	·95029	·04971	47,789	476,618	9·73	69
70	46,571	2,513	·94603	·05397	45,315	428,829	9·21	70
71	44,058	2,591	·94119	·05881	42,762	383,514	8·70	71
72	41,467	2,674	·93551	·06449	40,130	340,752	8·22	72
73	38,793	2,770	·92860	·07140	37,408	300,622	7·75	73
74	36,023	2,864	·92050	·07950	34,591	263,214	7·31	74
75	33,159	2,933	·91154	·08846	31,693	228,623	6·89	75
76	30,226	2,957	·90218	·09782	28,747	196,930	6·52	76
77	27,269	2,919	·89294	·10706	25,810	168,183	6·17	77
78	24,350	2,828	·88386	·11614	22,936	142,373	5·85	78
79	21,522	2,699	·87459	·12541	20,172	119,437	5·55	79
80	18,823	2,538	·86519	·13481	17,554	99,265	5·27	80
81	16,285	2,349	·85573	·14427	15,111	81,711	5·02	81
82	13,936	2,142	·84627	·15373	12,865	66,600	4·78	82
83	11,794	1,922	·83707	·16293	10,833	53,735	4·56	83
84	9,872	1,697	·82814	·17186	9,023	42,902	4·35	84
85	8,175	1,478	·81919	·18081	7,436	33,879	4·14	85
86	6,697	1,273	·80987	·19013	6,061	26,443	3·95	86
87	5,424	1,086	·79978	·20022	4,881	20,382	3·76	87
88	4,338	916	·78873	·21127	3,880	15,501	3·57	88
89	3,422	763	·77710	·22290	3,040	11,621	3·40	89
90	2,659	625	·76488	·23512	2,347	8,581	3·23	90
91	2,034	504	·75208	·24792	1,782	6,234	3·07	91
92	1,530	400	·73869	·26131	1,330	4,452	2·91	92
93	1,130	311	·72472	·27528	974	3,122	2·76	93
94	819	237	·71017	·28983	701	2,148	2·62	94
95	582	177	·69503	·30497	493	1,447	2·49	95
96	405	130	·67931	·32069	340	954	2·36	96
97	275	93	·66300	·33700	229	614	2·24	97
98	182	64	·64611	·35389	150	385	2·13	98
99	118	44	·62864	·37136	96	235	2·02	99
100	74	29	·61058	·38942	59	139	1·91	100
101	45	18	·59194	·40806	36	80	1·82	101
102	27	12	·57271	·42729	21	41	1·72	102
103	15	7	·55290	·44710	12	23	1·63	103
104	8	4	·53251	·46749	6	11	1·55	104
105	4	2	·51153	·48847	3	5	1·47	105

TABLE 21 (contd.) :—IRISH LIFE TABLE No. 4, 1945-47—FEMALES.

Note: See page 241 for Key to Notation.

Age x	l_x	d_x	p_x	q_x	L_x	T_x	$^o e_x$	Age x
0	100,000	6,096	.93904	.06096	95,389	6,242,704	62.43	0
1	93,904	715	.99239	.00761	93,547	6,147,315	65.46	1
2	93,189	341	.99634	.00366	93,018	6,053,768	64.96	2
3	92,848	241	.99740	.00260	92,728	5,960,750	64.20	3
4	92,607	208	.99775	.00225	92,503	5,868,022	63.36	4
5	92,399	172	.99814	.00186	92,313	5,775,519	62.51	5
6	92,227	140	.99848	.00152	92,157	5,683,206	61.62	6
7	92,087	112	.99878	.00122	92,031	5,591,049	60.71	7
8	91,975	92	.99900	.00100	91,929	5,499,018	59.79	8
9	91,883	80	.99913	.00087	91,843	5,407,089	58.85	9
10	91,803	78	.99915	.00085	91,764	5,315,246	57.90	10
11	91,725	84	.99908	.00092	91,683	5,223,482	56.95	11
12	91,641	97	.99894	.00106	91,592	5,131,799	56.00	12
13	91,544	114	.99875	.00125	91,487	5,040,207	55.06	13
14	91,430	141	.99846	.00154	91,360	4,948,720	54.13	14
15	91,289	171	.99813	.00187	91,203	4,857,360	53.21	15
16	91,118	201	.99779	.00221	91,018	4,766,157	52.31	16
17	90,917	229	.99748	.00252	90,802	4,675,139	51.42	17
18	90,688	254	.99720	.00280	90,561	4,584,337	50.55	18
19	90,434	279	.99692	.00308	90,295	4,493,776	49.69	19
20	90,155	303	.99664	.00336	90,003	4,403,481	48.84	20
21	89,852	323	.99641	.00359	89,691	4,313,478	48.01	21
22	89,529	337	.99624	.00376	89,360	4,223,787	47.18	22
23	89,192	343	.99615	.00385	89,021	4,134,427	46.35	23
24	88,849	344	.99613	.00387	88,677	4,045,406	45.53	24
25	88,505	341	.99615	.00385	88,334	3,956,729	44.71	25
26	88,164	338	.99617	.00383	87,995	3,868,395	43.88	26
27	87,826	337	.99616	.00384	87,658	3,780,400	43.04	27
28	87,489	339	.99612	.00388	87,319	3,692,742	42.21	28
29	87,150	343	.99606	.00394	86,979	3,605,423	41.37	29
30	86,807	347	.99600	.00400	86,633	3,518,444	40.53	30
31	86,460	351	.99594	.00406	86,285	3,431,811	39.69	31
32	86,109	355	.99588	.00412	85,931	3,345,526	38.85	32
33	85,754	358	.99583	.00417	85,575	3,259,595	38.01	33
34	85,396	360	.99578	.00422	85,216	3,174,020	37.17	34
35	85,036	363	.99573	.00427	84,855	3,088,804	36.32	35
36	84,673	367	.99566	.00434	84,489	3,003,949	35.48	36
37	84,306	377	.99553	.00447	84,118	2,919,460	34.63	37
38	83,929	391	.99534	.00466	83,733	2,835,342	33.78	38
39	83,538	409	.99511	.00489	83,334	2,751,609	32.94	39
40	83,129	428	.99485	.00515	82,915	2,668,275	32.10	40
41	82,701	449	.99457	.00543	82,476	2,585,360	31.26	41
42	82,252	469	.99430	.00570	82,018	2,502,884	30.43	42
43	81,783	485	.99407	.00593	81,540	2,420,866	29.60	43
44	81,298	498	.99387	.00613	81,049	2,339,326	28.77	44
45	80,800	513	.99365	.00635	80,544	2,258,277	27.95	45
46	80,287	534	.99335	.00665	80,020	2,177,733	27.12	46
47	79,753	564	.99293	.00707	79,471	2,097,713	26.30	47
48	79,189	607	.99233	.00767	78,885	2,018,242	25.49	48
49	78,582	660	.99160	.00840	78,232	1,939,357	24.68	49
50	77,922	718	.99079	.00921	77,563	1,861,105	23.88	50
51	77,204	775	.98996	.01004	76,817	1,783,542	23.10	51
52	76,429	827	.98918	.01082	76,015	1,706,725	22.33	52
53	75,602	870	.98849	.01151	75,167	1,630,710	21.57	53
54	74,732	906	.98787	.01213	74,279	1,555,543	20.81	54

TABLE 21 (contd.) :—IRISH LIFE TABLE No. 4, 1945-47—FEMALES.

Age x	l_x	d_x	p_x	q_x	L_x	T_x	e_x	Age x
55	73,826	943	.98722	.01278	73,355	1,481,264	20.06	55
56	72,883	988	.98645	.01355	72,389	1,407,909	19.32	56
57	71,895	1,045	.98546	.01454	71,372	1,335,520	18.58	57
58	70,850	1,117	.98424	.01576	70,292	1,264,148	17.84	58
59	69,733	1,195	.98287	.01713	69,135	1,193,856	17.12	59
60	68,538	1,280	.98132	.01868	67,898	1,124,721	16.41	60
61	67,258	1,374	.97957	.02043	66,571	1,056,823	15.71	61
62	65,884	1,476	.97759	.02241	65,146	990,252	15.03	62
63	64,408	1,587	.97536	.02464	63,615	925,106	14.36	63
64	62,821	1,704	.97287	.02713	61,969	861,491	13.71	64
65	61,117	1,825	.97014	.02986	60,204	799,522	13.08	65
66	59,292	1,944	.96722	.03278	58,320	739,318	12.47	66
67	57,348	2,057	.96413	.03587	56,320	680,998	11.87	67
68	55,291	2,155	.96103	.03897	54,213	624,678	11.30	68
69	53,136	2,238	.95788	.04212	52,017	570,465	10.74	69
70	50,898	2,318	.95445	.04555	49,739	518,448	10.19	70
71	48,580	2,408	.95044	.04956	47,376	468,709	9.65	71
72	46,172	2,515	.94554	.05446	44,915	421,333	9.13	72
73	43,657	2,649	.93932	.06068	42,332	376,418	8.62	73
74	41,008	2,796	.93183	.06817	39,610	334,086	8.15	74
75	38,212	2,923	.92351	.07649	36,751	294,476	7.71	75
76	35,289	3,004	.91487	.08513	33,787	257,725	7.30	76
77	32,285	3,016	.90658	.09342	30,777	223,938	6.94	77
78	29,269	2,963	.89876	.10124	27,787	193,161	6.60	78
79	26,306	2,866	.89106	.10894	24,873	165,374	6.29	79
80	23,440	2,734	.88338	.11662	22,073	140,501	5.99	80
81	20,706	2,575	.87565	.12435	19,419	118,428	5.72	81
82	18,131	2,398	.86775	.13225	16,932	99,009	5.46	82
83	15,733	2,206	.85976	.14024	14,630	82,077	5.22	83
84	13,527	2,005	.85179	.14821	12,524	67,447	4.99	84
85	11,522	1,801	.84372	.15628	10,622	54,523	4.77	85
86	9,721	1,600	.83543	.16457	8,921	44,301	4.56	86
87	8,121	1,407	.82677	.17323	7,417	35,380	4.36	87
88	6,714	1,224	.81769	.18231	6,102	27,963	4.16	88
89	5,490	1,052	.80831	.19169	4,964	21,861	3.98	89
90	4,438	894	.79864	.20136	3,991	16,897	3.81	90
91	3,544	749	.78867	.21133	3,170	12,906	3.64	91
92	2,795	619	.77840	.22160	2,485	9,736	3.48	92
93	2,176	505	.76785	.23215	1,924	7,251	3.33	93
94	1,671	406	.75699	.24301	1,468	5,327	3.10	94
95	1,265	322	.74584	.25416	1,104	3,859	3.05	95
96	943	250	.73440	.26560	818	2,755	2.92	96
97	693	192	.72266	.27734	597	1,937	2.80	97
98	501	145	.71062	.28938	428	1,340	2.68	98
99	356	107	.69829	.30171	303	912	2.57	99
100	249	78	.68566	.31434	210	609	2.46	100
101	171	56	.67274	.32726	143	399	2.35	101
102	115	39	.65953	.34047	95	256	2.26	102
103	76	27	.64601	.35399	63	161	2.16	103
104	49	18	.63221	.36779	40	98	2.07	104
105	31	12	.61810	.38190	25	58	1.99	105