

THE RECENT TREND OF MORTALITY IN ENGLAND AND WALES

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IN continuation of the tables given in *J.I.A.* LXXVII, 120-2, central death-rates in age-groups for males and females separately in the year 1950 and the three years 1948, 1949, 1950 are shown in Table 1, and the ratios of these death-rates to the corresponding rates for the years 1930, 1931, 1932 are shown in Table 2. Up to 1949 both the deaths and the populations from which the death-rates have been derived were limited to civilians, though a few deaths due to war—mainly those of war-disabled ex-servicemen—were included. In 1950, however, the basis of the Registrar General's estimate of the population of the country was changed to that of the 'home' population, i.e., the total population, including English seamen on foreign-going ships and the armed forces in the country, but excluding the forces abroad. Thus the revised basis for 1950 differs from that for earlier years by the inclusion of the armed forces stationed in England and Wales. The effect of the change in basis is only marginal, except (a) for the quinary age-group 15-19 last birthday for males, where the adjustment of the population observed in 1949 by the replacement of these healthy lives would reduce the rate by nearly 7%, and (b) for the broader age-group 15-44 last birthday for males, where the reduction would be about $1\frac{1}{2}\%$.

In order that the trend of mortality rates since 1930-2 may be conveniently studied, the group death-rates and ratios to the 1930-2 standard since 1933 are shown in Tables 3 and 4 respectively, and the ratios to the 1930-2 standard are shown in graphical form on pp. 129-30. In these tables and graphs the age-groups have been reduced to six, viz., under age 1 (infants), 1-4 (young children), 5-14 (children of school age), 15-44 (younger adults), 45-64 (older adults) and 65 and over (elderly). Further, so as to eliminate the effect of the considerable changes in the age distribution of the population that have taken place since 1930-2, the group death-rates and ratios have been standardized on the age distribution of England and Wales at the 1931 Census.

Table 1. Death-rates for age-groups in England and Wales in the year 1950, and in the three years 1948-50

Age-group	Death-rates in 1950		Death-rates in 1948-50	
	Males	Females	Males	Females
0-4	·00748	·00585	·00861	·00673
5-9	·00075	·00053	·00081	·00057
10-14	·00056	·00041	·00061	·00048
15-19	·00101	·00078	·00118	·00095
20-24	·00139	·00109	·00150	·00136
25-29	·00162	·00136	·00167	·00155
30-34	·00177	·00154	·00188	·00171
35-39	·00231	·00197	·00244	·00206
40-44	·00353	·00267	·00369	·00277
45-49	·00641	·00430	·00652	·00430
50-54	·01046	·00638	·01041	·00648
55-59	·01746	·00976	·01724	·00975
60-64	·02830	·01579	·02796	·01566
65-69	·04328	·02629	·04209	·02574
70-74	·06654	·04535	·06471	·04479
75-79	·10468	·07934	·10056	·07630
80-84	·16182	·12962	·15489	·12319
85 and over	·25034	·21690	·23712	·20639
All ages: Crude rates	·01234	·01099	·01228	·01075
Standardized*	·00951	·00772	·00944	·00769

* Standardized on 1931 Census age distribution.

Table 2. Ratios of death-rates for age-groups in England and Wales in the year 1950, and in the three years 1948-50, to the rates for 1930-32

Age-group	Ratios of 1950 rates		Ratios of 1948-50 rates	
	Males	Females	Males	Females
0-4	·348	·347	·401	·399
5-9	·328	·261	·354	·281
10-14	·373	·285	·407	·333
15-19	·396	·339	·463	·413
20-24	·424	·388	·457	·484
25-29	·491	·444	·506	·507
30-34	·486	·461	·516	·512
35-39	·484	·500	·511	·523
40-44	·547	·545	·572	·565
45-49	·688	·640	·700	·640
50-54	·800	·673	·796	·684
55-59	·913	·702	·902	·701
60-64	·970	·740	·958	·733
65-69	·930	·779	·904	·762
70-74	·894	·816	·870	·806
75-79	·888	·853	·853	·820
80-84	·900	·877	·862	·833
85 and over	·888	·875	·841	·833
All ages: Crude rates	·971	·978	·966	·956
Standardized*	·748	·687	·743	·684

* Standardized on 1931 Census age distribution.

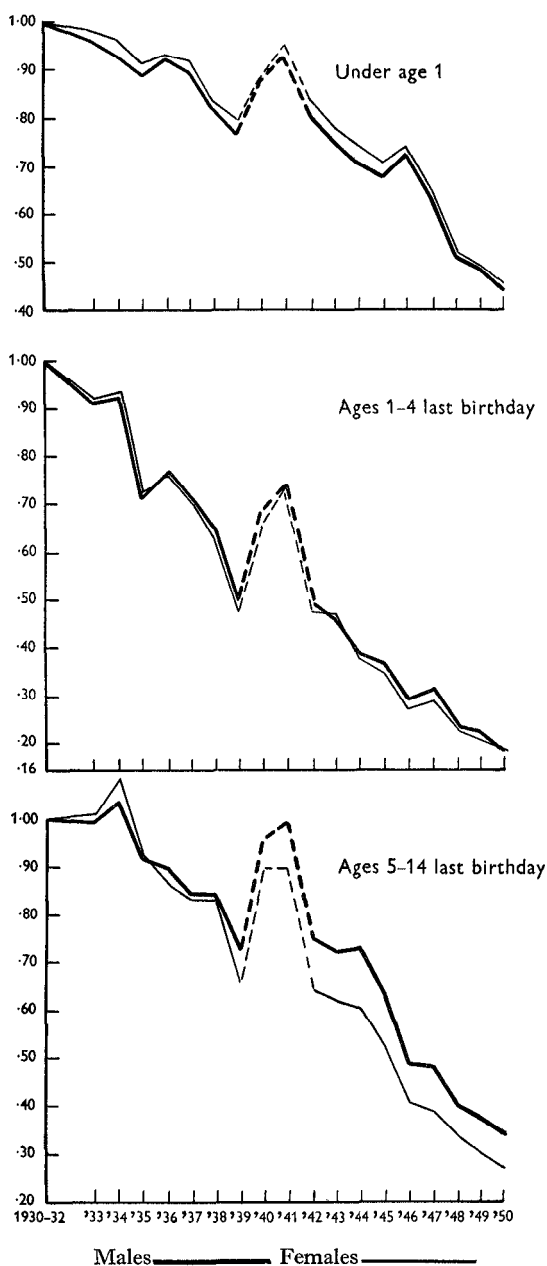
Table 3. Standardized death-rates for age-groups in England and Wales
(standardized on 1931 Census age distribution)

Year	Age-group						All ages
	Under 1	1-4	5-14	15-44	45-64	65 and over	
MALES							
1930-32	·07650	·00755	·00190	·00385	·01653	·08063	·01271
1933	·07354	·00688	·00189	·00390	·01687	·08075	·01272
1934	·07109	·00697	·00198	·00356	·01629	·07687	·01216
1935	·06791	·00535	·00175	·00342	·01613	·07755	·01192
1936	·07042	·00580	·00171	·00332	·01658	·08013	·01220
1937	·06845	·00536	·00161	·00338	·01701	·08102	·01230
1938	·06257	·00483	·00161	·00315	·01572	·07588	·01145
1939	·05874	·00367	·00137	·00304	·01628	·07947	·01158
1940	·06631	·00511	·00181	·00447	·01923	·08729	·01368
1941	·07111	·00557	·00188	·00479	·01701	·07774	·01285
1942	·06150	·00372	·00142	·00393	·01503	·07089	·01122
1943	·05746	·00348	·00136	·00407	·01542	·07146	·01132
1944	·05428	·00298	·00138	·00409	·01517	·06891	·01102
1945	·05194	·00275	·00119	·00385	·01477	·06849	·01071
1946	·05559	·00220	·00092	·00254	·01467	·06713	·00996
1947	·04748	·00236	·00091	·00238	·01496	·07346	·01025
1948	·03843	·00179	·00076	·00205	·01398	·06557	·00915
1949	·03694	·00166	·00072	·00201	·01451	·07227	·00966
1950	·03378	·00142	·00066	·00184	·01439	·07277	·00951
FEMALES							
1930-32	·05705	·00677	·00174	·00333	·01197	·06839	·01124
1933	·05587	·00625	·00176	·00342	·01219	·07011	·01142
1934	·05486	·00633	·00190	·00314	·01143	·06469	·01069
1935	·05207	·00490	·00162	·00301	·01126	·06467	·01043
1936	·05286	·00519	·00150	·00289	·01139	·06682	·01058
1937	·05235	·00477	·00145	·00292	·01156	·06785	·01068
1938	·04738	·00424	·00145	·00264	·01058	·06137	·00970
1939	·04566	·00322	·00114	·00260	·01071	·06547	·00992
1940	·05000	·00444	·00156	·00318	·01208	·07194	·01121
1941	·05462	·00499	·00156	·00302	·01067	·06323	·01021
1942	·04752	·00318	·00111	·00254	·00951	·05633	·00890
1943	·04478	·00317	·00108	·00256	·00958	·05847	·00905
1944	·04254	·00254	·00105	·00247	·00921	·05462	·00854
1945	·04063	·00235	·00090	·00224	·00899	·05485	·00834
1946	·04229	·00185	·00071	·00205	·00895	·05582	·00829
1947	·03676	·00194	·00068	·00203	·00881	·05782	·00833
1948	·02955	·00155	·00059	·00182	·00821	·05110	·00742
1949	·02817	·00139	·00053	·00174	·00850	·05758	·00793
1950	·02569	·00128	·00047	·00152	·00836	·05722	·00772

Table 4. Ratios of standardized death-rates for age-groups in England and Wales to the rates for 1930-32 (standardized on 1931 Census age distribution)

Year	Age-group						All ages
	Under 1	1-4	5-14	15-44	45-64	65 and over	
MALES							
1930-32	1'000	1'000	1'000	1'000	1'000	1'000	1'000
1933	'961	'911	'995	1'013	1'021	1'001	1'001
1934	'929	'923	1'042	'925	'985	'953	'957
1935	'888	'709	'921	'888	'976	'962	'938
1936	'921	'768	'900	'862	1'003	'994	'960
1937	'895	'710	'847	'878	1'029	1'005	'968
1938	'818	'640	'847	'818	'951	'941	'901
1939	'768	'486	'721	'790	'985	'986	'911
1940	'867	'677	'953	1'161	1'163	1'083	1'076
1941	'930	'738	'989	1'244	1'029	'964	1'011
1942	'804	'493	'747	1'021	'909	'879	'883
1943	'751	'461	'716	1'057	'933	'886	'891
1944	'710	'395	'726	1'062	'918	'855	'867
1945	'679	'364	'626	1'000	'894	'849	'843
1946	'727	'291	'484	'660	'887	'833	'784
1947	'621	'313	'479	'618	'905	'911	'806
1948	'502	'237	'400	'532	'846	'813	'720
1949	'483	'220	'379	'522	'878	'896	'760
1950	'442	'188	'347	'478	'871	'903	'748
FEMALES							
1930-32	1'000	1'000	1'000	1'000	1'000	1'000	1'000
1933	'979	'923	1'011	1'027	1'018	1'025	1'016
1934	'962	'935	1'092	'943	'955	'946	'951
1935	'913	'724	'931	'904	'941	'946	'928
1936	'927	'767	'862	'868	'952	'977	'941
1937	'918	'705	'833	'877	'966	'992	'950
1938	'831	'626	'833	'793	'884	'897	'863
1939	'800	'476	'655	'781	'895	'957	'883
1940	'876	'656	'897	'955	1'009	1'052	'997
1941	'957	'737	'897	'907	'891	'925	'908
1942	'833	'470	'638	'763	'794	'824	'792
1943	'785	'468	'621	'769	'800	'855	'805
1944	'746	'375	'603	'742	'769	'799	'760
1945	'712	'347	'517	'673	'751	'802	'742
1946	'741	'273	'408	'616	'748	'816	'738
1947	'644	'287	'391	'610	'736	'845	'741
1948	'518	'229	'339	'547	'686	'747	'660
1949	'494	'205	'305	'523	'710	'842	'706
1950	'450	'189	'270	'456	'698	'837	'687

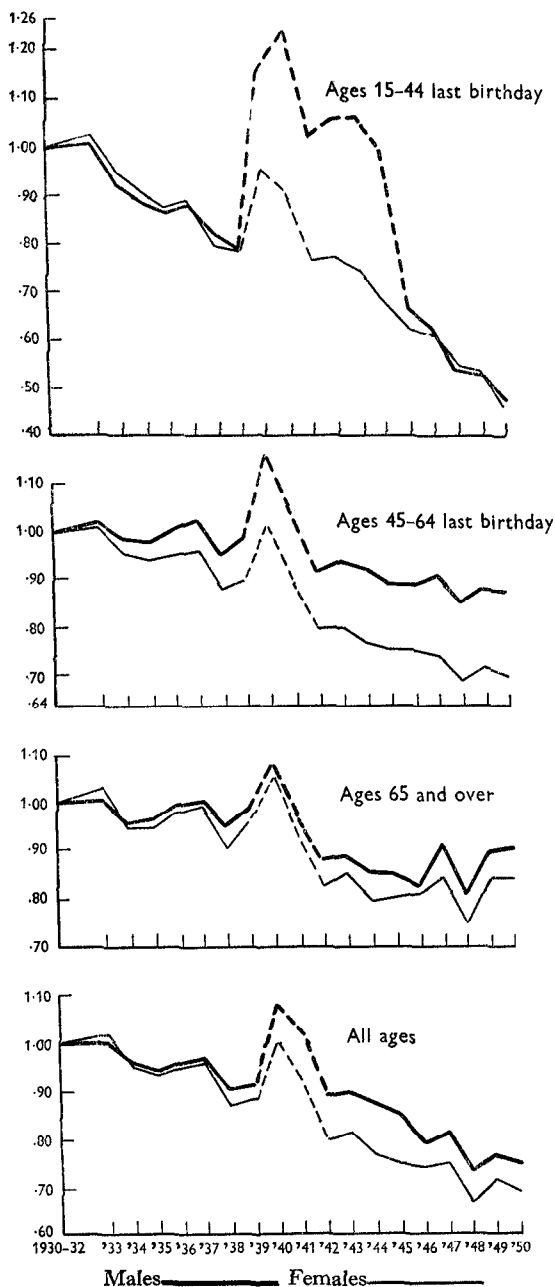
Ratios of group death-rates (standardized) to 1930-32 rates



Ratios markedly affected by war conditions have been joined together by broken lines,

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