

THE RECENT TREND OF MORTALITY IN ENGLAND AND WALES

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IN continuation of the tables given in *J.I.A.* 80, 101-6, central death-rates in age-groups for males and females separately in the year 1953, and the ratios of these death-rates to the corresponding rates for the years 1930-32, are shown in Table 1. In Table 2, death-rates and ratios are given for the triennium 1951-53. 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 causes—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 for the purpose of calculating death-rates 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, 1951, 1952 and 1953 differs from that for earlier years by the inclusion of the armed forces stationed in England and Wales. Further minor alterations in the content of the 'home' population were made in 1951. The effect of these changes in basis is only marginal, however, except that the inclusion in the population from 1950 onwards of the healthy lives in the armed forces stationed in England and Wales accounts for reductions in the mortality rates for males, compared with the rates for the years immediately preceding 1950, of about $7\frac{1}{2}\%$ at ages 15-19 and about $1\frac{3}{4}\%$ in the broader age-group 15-44 last birthday.

The adjustments of the estimates of population from 1951 onwards to allow for the errors revealed by the 1951 Census tabulation have a negligible effect on the mortality trends except at ages 85 and over. A note on this matter was included in *J.I.A.* 79, 90-91, where the corrected rates for the years 1933-50 were set out.

In order that the trend of mortality rates since 1930-32 may be conveniently studied, the group death-rates and the ratios to the 1930-32 standard since 1933 are set out in Tables 3 and 4 respectively, and the ratios to the 1930-32 standard are shown in graphical form on pp. 61-62. 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 1930-32, 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 1953 and ratios of these rates to the rates for 1930-32

| Age-group | Death-rates in 1953 | | Ratios to 1930-32 rates | |
|--------------------------|---------------------|---------|-------------------------|---------|
| | Males | Females | Males | Females |
| 0-4 | ·00706 | ·00562 | ·329 | ·334 |
| 5-9 | ·00057 | ·00041 | ·249 | ·202 |
| 10-14 | ·00045 | ·00035 | ·300 | ·243 |
| 15-19 | ·00082 | ·00045 | ·322 | ·196 |
| 20-24 | ·00119 | ·00067 | ·363 | ·238 |
| 25-29 | ·00126 | ·00092 | ·382 | ·301 |
| 30-34 | ·00148 | ·00122 | ·407 | ·365 |
| 35-39 | ·00206 | ·00166 | ·432 | ·421 |
| 40-44 | ·00308 | ·00251 | ·478 | ·512 |
| 45-49 | ·00557 | ·00384 | ·598 | ·571 |
| 50-54 | ·01034 | ·00584 | ·791 | ·616 |
| 55-59 | ·01688 | ·00903 | ·883 | ·650 |
| 60-64 | ·02801 | ·01463 | ·960 | ·685 |
| 65-69 | ·04374 | ·02466 | ·940 | ·730 |
| 70-74 | ·06744 | ·04160 | ·906 | ·749 |
| 75-79 | ·10571 | ·07379 | ·897 | ·793 |
| 80-84 | ·16060 | ·12486 | ·894 | ·845 |
| 85 and over | ·26597 | ·23755 | ·943 | ·959 |
| All ages: Crude rates | ·01223 | ·01067 | ·962 | ·949 |
| Standardized* | ·00926 | ·00718 | ·729 | ·639 |

* Standardized on 1931 Census age distribution.

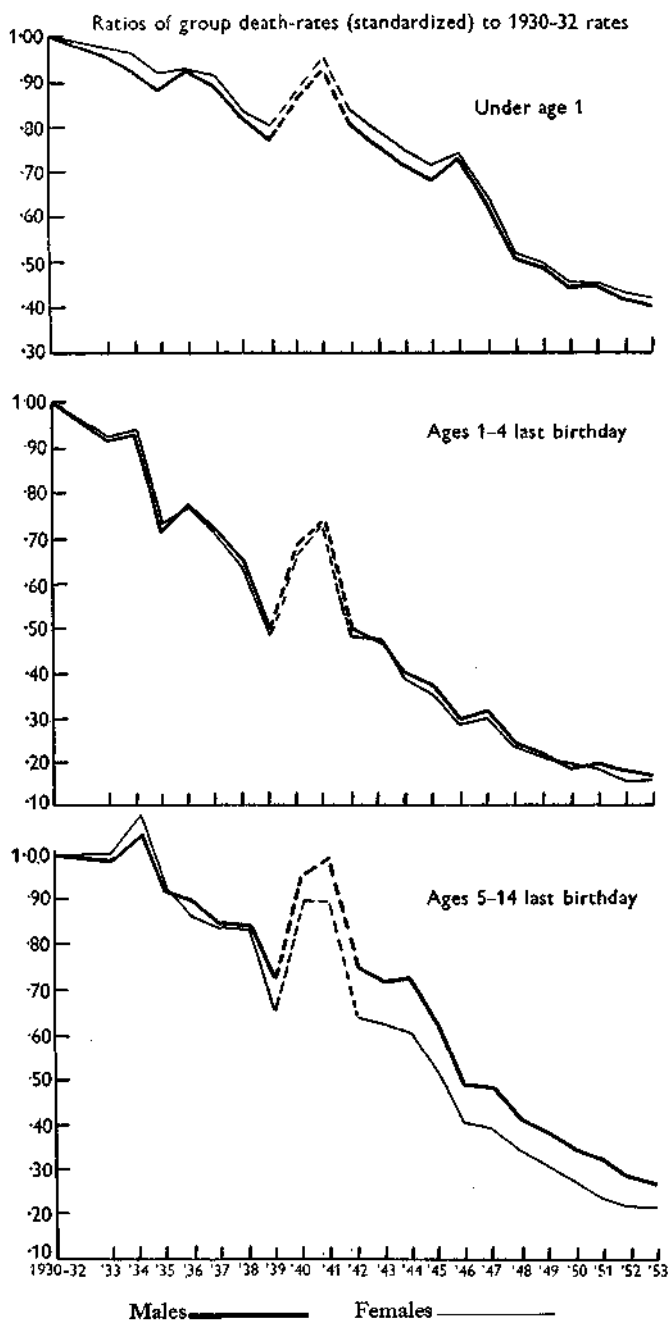
Table 2. Death-rates for age-groups in England and Wales in the three years 1951-53 and ratios of these rates to the rates for 1930-32

| Age-group | Death-rates in 1951-53 | | Ratios to 1930-32 rates | |
|--------------------------|------------------------|---------|-------------------------|---------|
| | Males | Females | Males | Females |
| 0-4 | ·00715 | ·00558 | ·333 | ·331 |
| 5-9 | ·00060 | ·00042 | ·262 | ·207 |
| 10-14 | ·00051 | ·00036 | ·340 | ·250 |
| 15-19 | ·00087 | ·00053 | ·341 | ·230 |
| 20-24 | ·00131 | ·00078 | ·399 | ·278 |
| 25-29 | ·00135 | ·00103 | ·409 | ·337 |
| 30-34 | ·00160 | ·00129 | ·440 | ·386 |
| 35-39 | ·00219 | ·00174 | ·459 | ·442 |
| 40-44 | ·00329 | ·00257 | ·510 | ·524 |
| 45-49 | ·00587 | ·00398 | ·631 | ·592 |
| 50-54 | ·01065 | ·00613 | ·814 | ·647 |
| 55-59 | ·01757 | ·00947 | ·919 | ·681 |
| 60-64 | ·02871 | ·01527 | ·984 | ·715 |
| 65-69 | ·04505 | ·02584 | ·968 | ·765 |
| 70-74 | ·06917 | ·04374 | ·930 | ·787 |
| 75-79 | ·10938 | ·07689 | ·928 | ·826 |
| 80-84 | ·16594 | ·13212 | ·923 | ·894 |
| 85 and over | ·28492 | ·24278 | ·910 | ·980 |
| All ages: Crude rates | ·01261 | ·01098 | ·992 | ·977 |
| Standardized* | ·00962 | ·00751 | ·757 | ·669 |

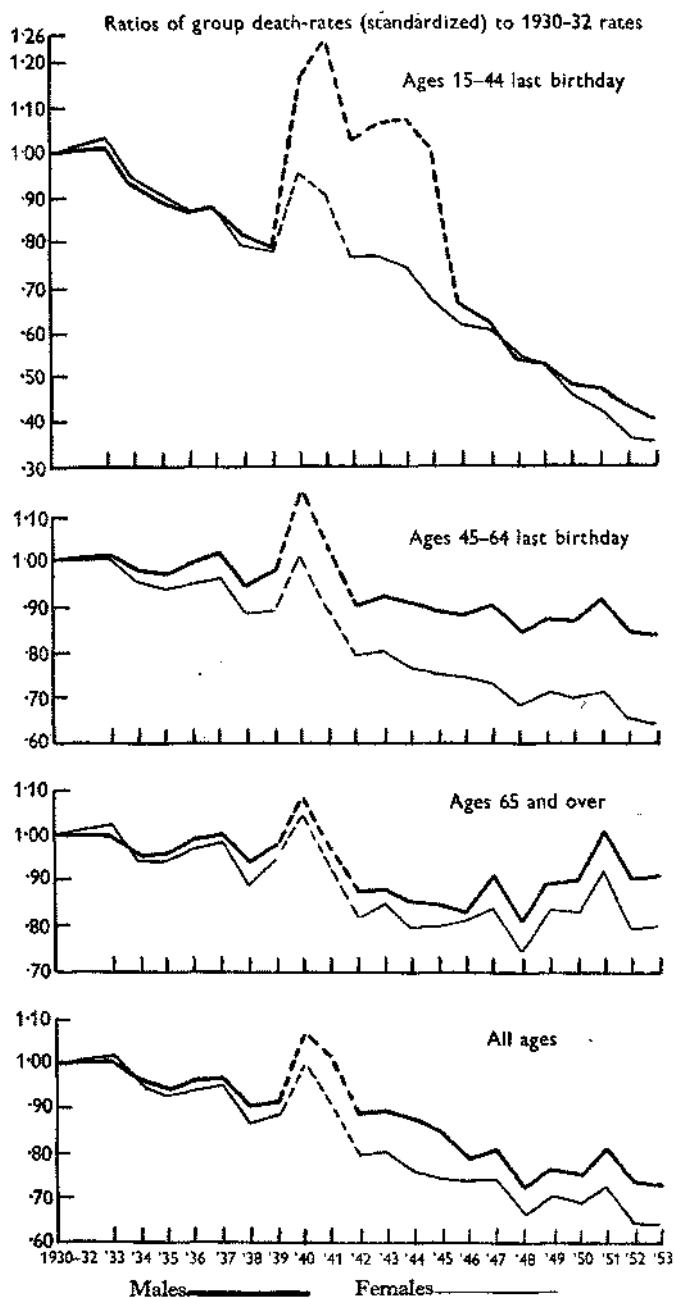
* Standardized on 1931 Census age distribution.

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 |
| 1951 | ·03403 | ·00149 | ·00062 | ·00180 | ·01528 | ·08189 | ·01028 |
| 1952 | ·03174 | ·00134 | ·00054 | ·00167 | ·01399 | ·07318 | ·00931 |
| 1953 | ·03084 | ·00127 | ·00051 | ·00156 | ·01392 | ·07371 | ·00926 |
| 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 |
| 1951 | ·02576 | ·00129 | ·00041 | ·00141 | ·00857 | ·06298 | ·00817 |
| 1952 | ·02472 | ·00104 | ·00038 | ·00122 | ·00784 | ·05440 | ·00719 |
| 1953 | ·02418 | ·00111 | ·00038 | ·00119 | ·00768 | ·05489 | ·00718 |



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

Recent Trend of Mortality in England and Wales

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

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 | .866 | .760 |
| 1950 | .442 | .188 | .347 | .478 | .871 | .903 | .748 |
| 1951 | .445 | .197 | .326 | .468 | .924 | 1.016 | .809 |
| 1952 | .415 | .177 | .284 | .434 | .846 | .908 | .732 |
| 1953 | .403 | .168 | .268 | .405 | .842 | .914 | .729 |
| 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 |
| 1951 | .452 | .191 | .236 | .423 | .716 | .921 | .727 |
| 1952 | .433 | .154 | .218 | .366 | .655 | .795 | .640 |
| 1953 | .424 | .164 | .218 | .357 | .642 | .803 | .639 |