THE

REGISTRAR GENERAL'S

STATISTICAL REVIEW

OF

ENGLAND AND WALES

for the year 1960

PART III

COMMENTARY



LONDON
HER MAJESTY'S STATIONERY OFFICE
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EXPLANATORY NOTES

1. Populations

The estimates of population appearing in this volume and described as "home" or "total" populations have the following content:

Home population—the population, of all types, actually in England and Wales, distributed by area according to residence.

Total population—the home population plus members of H.M. Forces belonging to England and Wales and serving overseas but minus the Forces of other countries temporarily in England and Wales.

2. Numbering of tables

Of the tables referred to in this review, those numbered in Arabic numerals will be found in "Part I, Tables, Medical" and those lettered will be found in "Part II, Tables, Population" for the year in question, while those numbered in Roman numerals appear in this volume.

3. Standardised mortality comparison

The Comparative Mortality Index introduced in 1942 has since 1958 been replaced by a Standardised Mortality Ratio which shows the number of deaths registered in the year of experience as a percentage of those which would have been expected in that year had the sex/age mortality of a standard period (1950–1952) operated on the sex/age population of the year of experience.

These Standardised Mortality Ratios are shown in Tables XLIII, XLVIII, LXXXI, LXXXII, LXXXVII, XCI, XCV, and CI of the present volume.

4. Indication of reliability

Rates given as 0 indicate that the actual rate is less than one half of a unit. A dash (—) in any column indicates that there were no events. Where a cell has been left blank no denominator is available.

Rates based upon less than 20 events are distinguished by italic type as a warning to the user that the smallness of the experiences may affect their reliability as a measure of the underlying mortality.

Numbers

If d represents the deaths in an area and p the population in that area then, if d/p is small, the standard error (s.e.) of d is approximately \sqrt{d} assuming that the deaths are independent of one another. Clearly, the larger the number of deaths the smaller will be the proportionate variability. A deviation either way of twice the s.e. may be expected about once in 20 times. Using this criterion one might expect towns each averaging 20 deaths per year to yield in the same year numbers ranging between 11 and 29 without such differences having any statistical significance. Alternatively it could be said that if 20 deaths were recorded for a town, this number would have a 95 per cent confidence interval of approximately ± 9 , there being a 95 per cent chance that the underlying mortality is represented by a number of deaths within this interval

If d is thought to be an extreme variation it would be more reliable to use as the standard error not \sqrt{d} but $\sqrt{d'}$ where d' is the number of deaths expected if some standard rate (e.g. the national rate) were applied.

Rates

The appropriate standard error of a death rate when d represents the number of deaths and p the population is

$$\frac{\sqrt{d}}{p}$$
 or $\frac{m}{\sqrt{d}}$

where m is the death rate. The difference between two local death rates m_1 and m_2 can only be regarded as significant if it amounts to more than twice the standard error of the difference, viz.

$$2\sqrt{\left(\frac{m_1^2}{d_1}+\frac{m_2^2}{d_2}\right)}$$

Comparison of adjusted rates

Before comparisons are made, other known sources of variation (such as differences in the sex and age composition of the population) must be removed. If C is the local death Area Comparability Factor, then mC is to be compared with m', the national death rate. The s.e. of mC is

$$\sqrt{\left(\frac{mC}{p}\right)}$$

and

$$mC\pm2\sqrt{\left(\frac{mC}{p}\right)}$$

is to be compared with m'. As already indicated, m' can be used instead of m in the calculation of the s.e.; m' has the advantage of itself having a small sampling error.

5. Definition of areas

London A.C. = administrative county of London which consists of the City of London (including the Inner and Middle Temples) and the metropolitan boroughs.

C.B. = county borough; M.B. = municipal borough; Met.B. = metropolitan borough; U.D. = urban district; R.D. = rural district.

6. Standard regions

The constitution of the standard regions of England and Wales used in this volume is as follows:

REGION I Northern	REGION IV Eastern	REGION VI Southern	Wales II (remainder)
Cumberland Durham Northumberland Westmorland Yorkshire, North Riding REGION II East and West Ridings Yorkshire, East Riding	Bedfordshire Cambridgeshire Ely, Isle of Essex, Part of ² Hertfordshire, Part of ³ Huntingdonshire Norfolk Suffolk, East Suffolk, West	Berkshire Buckinghamshire Dorset, Part of 6 Hampshire Oxfordshire Wight, Isle of REGION VII South Western	Anglesey Caernarvonshire Cardiganshire Denbighshire Flintshire Merionethshire Montgomeryshire Pembrokeshire Radnorshire
REGION III North Midland Derbyshire, Part of¹ Leicestershire Lincolnshire— Parts of Holland Parts of Kesteven Parts of Lindsey Northamptonshire Nottinghamshire Peterborough, Soke of Rutland	REGION V London and South Eastern Essex, Part of ⁴ Hertfordshire, Part of ⁵ Kent London Admin. County Middlesex Surrey Sussex, East Sussex, West	Cornwall Devon Dorset, Part of ⁷ Gloucestershire Somerset Wiltshire REGION VIII Wales I (South East) Brecknockshire Carmarthenshire Glamorganshire Monmouthshire	REGION IX Midland Herefordshire Shropshire Staffordshire Warwickshire Worcestershire REGION X North Western Cheshire Derbyshire, Part of ⁸ Lancashire

- 1. All except Buxton M.B., Glossop M.B., New Mills U.D., Whaley Bridge U.D. and Chapel en le Frith R.D. 2. All except East Ham C.B., West Ham C.B., Chingford M.B., Wanstead and Woodford M.B., Leyton M.B., Walthamstow M.B., Ilford M.B., Barking M.B., Dagenham M.B., Waltham Holy Cross U.D. and Chigwell U.D.
- 3. All except Barnet U.D., Bushey U.D., Cheshunt U.D., East Barnet U.D. and Elstree R.D.
- 4. All areas stated in 2 above.
- 5. All areas stated in 3 above.
- 6. Poole M.B. only.
- 7. All areas except Poole M.B.
- 8. All areas stated in 1 above.

7. Conurbations

The conurbation areas each consist of an aggregation of entire local authority areas and are constituted as follows:

	Ty	neside	
	Durham	Northui	mberland
Gateshead C.B. South Shields C.B.	Felling U.D. Hebburn U.D. Jarrow M.B. Whickham U.D.	Newcastle upon Tyne C.B Tynemouth C.B. Gosforth U.D.	Newburn U.D. Wallsend M.B. Whitley Bay M.B.

West Yorkshire

Yorkshire, West Riding

Bradford C.B. Dewsbury C.B. Halifax C.B. Huddersfield C.B. Leeds C.B. Wakefield C.B.

Aireborough U.D. Baildon U.D. Batley M.B. Bingley U.D. Brighouse M.B.

Colne Valley U.D. Denby Dale U.D. Denholme U.D. Elland U.D.

Heckmondwike U.D. Holmfirth U.D. Horbury U.D. Horsforth U.D. Keighley M.B.

Kirkburton U.D. Meltham U.D. Mirfield U.D. Morley M.B.

Ossett M.B. Pudsey M.B.
Queensbury and Shelf
U.D. Ripponden U.D. Rothwell U.D.

Shipley U.D. Sowerby Bridge U.D. Spenborough M.B. Stanley U.D.

Urmston U.D. Wardle U.D. Westhoughton U.D.

Whitefield U.D. Whitworth U.D.

Worsley U.D.

South East Lancashire

Cheshire Stockport C.B.

Alderley Edge U.D.
Altrincham M.B.
Bowdon U.D.
Bredbury and Romiley
U.D.
Cheadle and Gatley U.D.
Dukinfield M.B.

Dukinfield M.B. Hale U.D.

Hazel Grove and Bramhall U.D.
Hyde M.B.
Marple U.D.
Sale M.B. Stalybridge M.B. Wilmslow U.D.

Disley R.D.

Bolton C.B. Bury C.B. Manchester C.B. Oldham C.B. Rochdale C.B. Salford C.B.

Ashton-under-Lyne M.B. Audenshaw U.D. Chadderton U.D. Crompton U.D. Denton U.D.

Droylsden U.D. Eccles M.B. Failsworth U.D. Farnworth M.B. Heywood M.B.

Lancashire Horwich U.D. Irlam U.D. Kearsley U.D. Lees U.D.
Littleborough U.D.

Little Lever U.D. Middleton M.B. Milnrow U.D. Mossley M.B. Prestwich M.B.

Radcliffe M.B. Royton U.D. Stretford M.B.
Swinton and Pendlebury
M.B. Tottington U.D.

Mersevside

Cheshire

Birkenhead C.B. Wallasey C.B.

Ellesmere Port M.B. Hoylake U.D. Neston U.D. Bebington M.B. Wirral U.D.

Bootle C.B. Liverpool C.B. Crosby M.B.

Lancashire Huyton-with-Roby U.D Litherland U.D.

West Midlands

Staffordshire

Smethwick C.B. Walsall C.B.
West Bromwich C.B. Wolverhampton C.B

Aldridge U.D. Amblecote U.D. Bilston M.B. Brierley Hill U.D. Coseley U.D.

Darlaston U.D.
Rowley Regis M.B.
Sedgley U.D.
Tettenhall U.D.
Tipton M.B.

Wednesbury M.B. Wednesfield U.D. Willenhall U.D.

Mitcham M.B.

Richmond M.B. Surbiton M.B. Sutton and Cheam M.B. Wimbledon M.B.

Warwickshire Birmingham C.B.

Solihull M.B. Sutton Coldfield M.B.

Kent

Beckenham M.B.

Worcestershire Dudley C.B. Halesowen M.B. Oldbury M.B. Stourbridge M.B.

Greater London

London

(whole county) Middlesex (whole county)

Croydon C.B. Banstead U.D. Barnes M.B. Beddington and Wallington M.B.
Carshalton U.D.

Coulsdon and Purley U.D. Epsom and Ewell M.B. Esher U.D.

Bexley M.B.
Bromley M.B.
Chislehurst and Sidcup
U.D. Crayford U.D. Erith M.B. Kingston-upon-Thames M.B.
Malden and Coombe Orpington U.D. Penge U.D. M.B. Merton and Morden U.D.

Hertfordshire Barnet U.D.
Bushey U.D.
Cheshunt U.D.
East Barnet U.D.

Elstree R.D.

Essex East Ham C.B. West Ham C.B.

Barking M.B. Chigwell U.D. Chingford M.B. Dagenham M.B. Ilford M.B.

Leyton M.B. Waltham Holy Cross U.D. Walthamstow M.B. Wanstead and Woodford M.B.

8. Urban and rural aggregates

Urban and rural aggregates relate to groups of local authority areas by type (all those within conurbations, urban areas, rural districts) and, in the case of urban areas, by size of enumerated population at the 1951 Census. "Urban areas" include boroughs and urban districts as defined under the Local Government Acts, and rural districts are also as defined by those Acts.

9. Assignment of vital statistics by area

In all tables births and stillbirths are classified according to the area of usual residence of the parents (or mother) and deaths to the area of usual residence of the deceased. Accommodation provided under Parts III and IV of the National Assistance Act, 1948, is regarded as the place of residence of persons dying there. Before 1st January 1958 chronic sick and psychiatric hospitals were similarly treated for this purpose but from that date the method of classification was modified, the main change being that a death in such a hospital is now assigned to the area of occurrence only if the deceased had been there six months or more. If the deceased had been there less than six months the death is transferred to the area of previous usual residence.

10. General

See also the Explanatory Notes to the Tables volumes, Parts I and II.

INTRODUCTION

The Commentary follows the familiar pattern and completes for 1960 the numerical view of life and death set out in tables already published in Parts I and II of the Review.

On this occasion general mortality is considered in its relation to the successive stages of human life, from infancy to old age, and the statistical picture of 1960 is compared with that for 1950. This Commentary also contains the outcome of an analysis of changes in the numbers of deaths and in ages at death from eleven selected causes during the period 1920–1960. There is also a statement, of the kind published periodically, on the additional information obtained in reply to enquiries for further particulars of certified causes of death.

This year saw the introduction of the registration of the causes of stillbirth from the 1st October (Section 2 of the Population (Statistics) Act, 1960). The figures of the three months to December 1960 were published in the *Registrar General's Quarterly Return* for December 1960. Comment on these figures is deferred until the 1961 figures for a full year are available.

In addition to the central record of births, deaths and marriages in England and Wales, the General Register Office gets particulars of these vital events entered in registers kept by British Consuls, H.M. Forces abroad, British High Commissioners, Captains of H.M. Ships, the Masters of British ships (and of foreign ships carrying passengers to or from ports in the United Kingdom) and the Ministry of Aviation. From time to time details of the numbers of births, deaths and marriages registered in this way are given in the Commentary and figures for the years 1951–1960 will be found after the customary report on the Registration Service.

General Register Office, Somerset House, London, W.C.2.

August 1962.

POPULATION

It is estimated that at mid-1960 the *home* population of England and Wales was 45,755,000, the *civilian* population 45,406,000 and the *total* population 45,862,000.

As defined in Explanatory Note 1 on page xi, the *home* estimate comprises all persons actually present in the country, civilian and military, and of whatever nationality. It is an estimate constructed from the last Census prior to the mid-year concerned, with allowance for births, deaths, migration into and out of the country and variation in the disposition of the Armed Forces since the Census was taken. No adjustment is made, however, for the purely temporary seasonal net increase in visitors to this country in the summer months. For internal puposes the home population is the most important of the three estimates given. It serves as the control figure for the local population estimates on which Exchequer grants to local authorities are based and as a basis for the calculation of birth and death rates and other vital statistics. The term *civilian* population is self-explanatory—it is the home figure excluding its Armed Forces content.

Explanatory Note 1 defines our *total* population figure as the home population *plus* members of H.M. Forces serving overseas who are drawn from England and Wales, but *minus* the Forces of other countries temporarily stationed here.

It is easy enough to define the population of a country as the total number of its inhabitants; but there is no single definition of an inhabitant universally acceptable for all statistical purposes. There is a convention that either a de facto (or actual) figure or a de jure (by right) figure may be given, or both. But apart from the difficulty in making a choice between them, and in spite of special circumstances which may complicate even a true de facto count (such as the presence of nomadic groups, pockets of officially unrecognised displaced persons, etc. in a country), the United Nations Population Commission has found so confused and complicated a picture of actual theory and practice that, in the interest of comparability between the statistics of different nations, it recommended the production from each national census around 1950 of total figures on a uniform modified de facto basis, whatever other figures were also produced. This recommendation of an "international conventional total" population figure has been repeated for the 1960 round of censuses.

The 1960 United Nations Demographic Yearbook defines the "international conventional total" as "the total number of persons present in the country at the time of the census, *excluding* foreign military, naval and diplomatic personnel and their families located in the country but *including* military, naval and diplomatic personnel of the country and their families located abroad and merchant seamen resident in the country but at sea at the time".

The home population of England and Wales is the simple de facto population count. The total population of England and Wales is so defined as to suit national requirements; and its development, though not its publication in its present form, long antedates the United Nations discussions and recommenda-

tions. In fact, however, it sufficiently approximates to the recommended "international conventional total" to be identifiable with it for the purposes of international comparability.

The inclusion of merchant seamen at sea is recommended by the U.N. Population Commission, but is not mentioned in Explanatory Note 1. They are excluded from all three of the published estimates for England and Wales. Similarly, the categories referred to above as recommended for exclusion, but which are not mentioned in Explanatory Note 1, are included by us. On the basis of past experience, however, it is possible to assume that these contrasting groups are in rough balance.

Table I. Estimated population mid-1951 to mid-1960, England and Wales
(Figures in thousands)

	Total					Home			Civilian		
			Persons	Males	Females	Persons	Males	Females	Persons	Males	Females
1951 1952 1953 1954 1955			44,007 44,166 44,301 44,480 44,623	21,233 21,320 21,397 21,492 21,569	22,774 22,846 22,904 22,988 23,054	43,815 43,955 44,109 44,274 44,441	21,044 21,110 21,206 21,288 21,389	22,771 22,845 22,903 22,986 23,052	43,284 43,402 43,541 43,742 43,916	20,530 20,576 20,658 20,774 20,879	22,754 22,826 22,883 22,968 23,037
1956 1957 1958 1959 1960			44,821 45,043 45,244 45,504 45,862	21,669 21,782 21,877 22,002 22,176	23,152 23,261 23,367 23,502 23,686	44,667 44,907 45,109 45,386 45,755	21,517 21,648 21,744 21,885 22,070	23,150 23,259 23,365 23,501 23,685	44,151 44,425 44,701 45,007 45,406	21,013 21,177 21,346 21,517 21,733	23,138 23,248 23,355 23,490 23,673

From Table I above it will be seen that at no time during the period covered would the use of the total population involve the addition of as much as a half of one per cent to the home population and that recently the difference has been narrowing until by mid-1960 the addition required was less than a quarter of one per cent of the home population.

On the basis of the *de facto* or home population, the number of persons in England and Wales increased between 1951 and 1960 by 1,940,000 or nearly 4·4 per cent, the annual increases averaging 216,000, but ranging from 140,000 to 369,000.

In the 1959 Commentary it was pointed out that population growth from 1951–59 showed no marked variation from the pattern for 1931–39 and 1921–29. If the current review had been written before any information had become available about population increase after mid-1960, it would still be permissible merely to emphasise the persistence of this similarity into 1960. There is some difficulty in bringing 1939–40, with its unusual circumstances, into comparison with 1929–30 or 1959–60. Nevertheless, it is safe to claim that in each of the nine-year periods from mid-1921, mid-1931 and mid-1951 respectively the increase in population was remarkably similar, about four and a half per cent of the starting figure. And even with information available beyond the end of 1960, it would not be possible to refute a claim that the definite new pattern of population change observable since about 1911 against the following background was still operative in 1960.

During the Victorian and Edwardian periods, the population of England and Wales increased by more than 20 million people, having doubled itself in a little more than half a century. From some 15 millions in 1837, it rose to over 32 millions by the end of the nineteenth century and was nearly 36 millions by 1910. This represented an average annual increase of some 288,000 spread over the 73 years; but over the last forty of them the annual increments had persisted at about 300,000 and from the eighteen nineties an annual rate of around 350,000 was maintained.

If it is preferred that the comparison should simply be made with the half-century prior to 1911, the change in pattern from then on is very clear. From the 1861 Census to that of 1911, the home population of England and Wales rose by 16 millions or 80 per cent, the increases averaging over 320,000 a year.

The preliminary results of the 1961 Census (published in June 1961) show the very different picture for the second half of the century covered—an increase of 10 millions or 28 per cent, the increases averaging 200,000 a year. For the most part they were well below that figure.

In spite of such encouragement to leave well alone and the many warnings of past experience against overestimating the importance of short-term variations in changing long-term patterns, there is an alternative possible interpretation of the population changes between mid-1951 and mid-1960 which the later figures impel us to examine.

This is that a quite different pattern of population increases from that persisting since 1911 or thereabouts began to emerge in the middle 'fifties. At first haltingly and with a brief recoil, the change accelerated from about 1958; and 1960 would prove to be as memorable a year as 1911, the beginning of a change from annual increases levelling out at under 200,000 a year for about forty-five years by rapid shift to twice that level.

The nine annual increases from mid-1951 by themselves offer little support for such a conclusion, even if the changes in total as well as home population are given, showing that such increased changes as there were do not merely reflect the narrowing of the gap between these two, a feature which would be irrelevant to the long-term pattern of change. The increments from mid-1951 are (in thousands):

	1951- 52	1952– 53	1953– 54	1954– 55	1955– 56	1956– 57	1957– 58	1958- 59	1959– 60
Home	140	154	165	167	226	240	202	277	369
Total	159	135	179	143	198	222	201	260	358

There is nothing untoward in a series of nine increases of which four are well below 200,000 and only two adjacent ones uncomfortably above. Since 1911 there have been previous examples of isolated instances or brief runs of high figures, followed by a return to the normal pattern and we had a return to normal as recently as 1957–58.

There are, however, three points which should be made about the later figures in the sequence. The first is that if we take for 1960 assessment the longer period from mid-1959 to the preliminary figures for the 1961 Census, we get an annual rate of 378,000 instead of the mid-1959 to mid-1960 figure of 369,000, while the shorter period from mid-1960 to the 1961 Census yields an annual rate of increase of 390,000.

The second is that on previous experience we could confidently expect the high level of births in the immediate post-war period to revert to a lower level. We have no such confidence as to change in the present high level. While we can pinpoint the various other reasons for the increased size of our population change as we could those for earlier variations in the pattern, it was usually possible to forecast with confidence their temporary impact, e.g. we knew the intake of Hungarian refugees would not persist at a constant or increasing level and that many would pass on elsewhere. The third point then is that we do not know enough about the likely impact of legislation or the economic situation on the recently increasing importance of net inward migration as a factor in population change to justify any forecast that 1960 will appear to have been merely the first year when the movement towards a greatly increased long-term level of population change became obvious. It is plain that the 1959 and 1960 increases were part of a gradient whose ultimate extent is not yet known, but which would certainly require some unprecedented reversal to restore the 200,000 level of earlier years. Judgment on the long-term significance of the very recent increases in population which by 1960 were obviously not extremely short-term can be suspended.

Births

The most important element in the annual population increment has been and still is the number of live births occurring during the year, and the change in the pace of population growth reflected a change in the flow of births. The significance of 1911 in establishing a change in the pattern of population growth emerges from the list of yearly averages, which shows (in thousands):

1841-50				549	1901-10	20.000			930
1851–60				647	1911-20				810
1861–70				750	1921–30				713
1871-80				859	1931-40				606
1881-90	100	THE OWNER.	William .	889	1941-50	ed link	S BEAUTY	L CACASA	725
1891-1900	03111111	Profession of the second	100 3	916	1951-60	migra	to orn	BIL IS	704

In fact the decline in births began soon after the end of the nineteenth century and rapidly gathered momentum. It was not arrested until the nineteen thirties. In 1933 there were as few as 580,000 live births. A slow rise brought the annual figure up to 621,000 in 1938. After the 1939–45 War there was (as there had been after the 1914–18 War) a sharp upward fluctuation in births, mainly due to "postponed births". After 1950 the flow seemed to have settled down to some 670,000 or so births a year.

But in 1955 the flow was accelerated and, beginning with 1956, the births each year have been (*in thousands*): 700, 723, 741, 749 and, in 1960, 785. The larger figures of population growth since 1955, given above, reflect this increase in births.

Table II. Natural increase of the population mid-1951 to mid-1960, England and Wales

Year ended	STORES OF	Births	1 01 666	*Dista St	Deaths		Na	tural incre	ase
30th June	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females
1952	669,195 679,757 680,794 665,190	343,708 349,569 349,788 342,175	325,487 330,188 331,006 323,015	484,136 521,161 487,860 524,446	250,310 269,141 252,565 269,795	233,826 252,020 235,295 254,651	185,059 158,596 192,934 140,744	93,398 80,428 97,223 72,380	91,661 78,168 95,711 68,364
1956	687,214 709,658 732,751 749,059	354,082 364,569 377,142 385,391	333,132 345,089 355,609 363,668	516,340 483,659 549,955 536,131	266,001 248,948 284,054 274,680	250,339 234,711 265,901 261,451	170,874 225,999 182,796 212,928	88,081 115,621 93,088 110,711	82,793 110,378 89,708 102,217
1960	759,184	390,907	368,277	503,974	257,668	246,306	255,210	133,239	121,971

Table II above sets out the figures making up the natural increase (excess of births over deaths) from mid-1951 to mid-1960. The "bulge" years of 1946 and 1947 (there were 821,000 and 881,000 births respectively in these two calendar years) were followed by a steady decline to a figure still higher than that persisting in the nineteen thirties. As already indicated, births have increased in number since 1955 and in mid-year to mid-year terms reached 733,000 in 1957–58, 749,000 in 1958–59, and 759,000 in 1959–60.

Deaths

Deaths fluctuate from year to year independently of the movement in births, reflecting the irregular incidence of epidemics of influenza and similar events. In the nine years shown in Table II, the average number of deaths a year was 512 thousand, ranging from 484,000 in 1951–52 and 1956–57 to 550,000 in 1957–58.

Although births offset by deaths led in one of the nine years under review to a natural increase as low as 141,000 (in 1954–55), the average annual natural increase from mid-1951 to mid-1960 was 192,000. The figure of excess of births over deaths exceeded 200,000 three times, all in the four years since mid-1956, and reached 255,000 in 1959–60.

Migration

The other factors in population change are conveniently summarised into a simple net figure of migration; but what is here being measured is the balance between two opposing movements of a complex character. Table III below gives not only the final balance but also two separate constituents. It is necessary to explain the meaning of "migration" in this context. For the sake of greater comparability, international conventional use distinguishes between the long term or "permanent" migrant (a person whose movement to or from a country is expected to persist for at least one year) and the "short term migrant" or temporary visitor. For the estimation of population growth it is necessary to measure all long-term and some short-term migration. A de facto Census count will include visitors to a country and exclude residents who are away from it at the time. The following Census will reflect not only the natural change and long-term migration to and from the country in the intervening period; but it will also cover any change in the difference between the number of temporary visitors to this country and the number of residents of England and Wales who

are temporarily abroad. Intervening estimates attempt a similar assessment of such changes. To estimate the relatively small change in the "visitor" pool from the enormous passenger movement across the boundaries of England and Wales is a matter of some difficulty. Although the provisional results of the 1961 Census suggest that this was successfully surmounted over the intercensal period as a whole, the same accuracy may not obtain for each of the ten midyear estimates of migration individually. There is, however, no evidence that it does not.

Table III. Migration, mid-1951 to mid-1960, to and from England and Wales (Figures in thousands)

	ar end			et overse nigratio		more	t migrat within ed King			Total ne	
			Persons	Males	Females	Persons	Males	Females	Persons	Males	Females
1952 1953 1954 1955			- 45* - 42 - 30 - 15	- 17 - 15 - 11 - 6	- 28 - 27 - 19 - 9	+ 19 + 18 + 13 + 20	+ 11 + 11 + 8 + 12	+ 8 + 7 + 5 + 8	- 26 - 24 - 17 + 5	- 6 - 4 - 3 + 6	- 20 - 20 - 14 - 1
1956 1957 1958 1959		7 (0 7 (0	- - 20 - 5 + 30	- 2 - 13 - 11 + 4	+ 2 - 7 + 6 + 26	+ 25 + 20 + 19 + 18	+ 13 + 12 + 11 + 11	+ 12 + 8 + 8 + 7	+ 25 + 14 + 48	+ 11 - 1 + 15	+ 14 + 1 + 14 + 33
1960	voyat Vitosi	1008	+ 84	+ 30	+ 54	+ 24	+ 14	+ 10	+108	+ 44	+ 64

^{*} Including Allied Forces discharged between mid-1951 and mid-1952.

Table III distinguishes between net migration between England and Wales and the rest of the United Kingdom and net movement between this country and countries outside the United Kingdom. The first is an acknowledgment that in many respects the United Kingdom is a single entity and that this element in the migration balance is a movement much more akin to that between one region of the country and another than, say, emigration from Italy to Wales or from London to Brazil. The result over the nine years to mid-1960 was a net gain to the population of England and Wales of some 176,000 from the rest of the United Kingdom.

One established element in the migration balance is the net annual increase from the Irish Republic. The growth of industrial development in the Republic might have been expected to curtail the availability of Irish immigrant workers; but in fact the inward flow of workers has increased in recent years. There is, however, much movement to and fro and some difficulty in assessing the resultant net annual addition to the population of this country. Over the nine years, however, it amounted to slightly over 250,000, and increased latterly until it was 35,000 a year in 1958–59 and 1959–60. The Republic of Ireland Census, 1961, has removed any serious doubt as to the accuracy of these estimates.

The total migration balance apart from that from Scotland or Ireland is the difference between two complex groupings. One includes English and Welsh

emigrants beyond the United Kingdom and the Irish Republic, any former Commonwealth or alien immigrants here who return home or move on to another country, and the change in the level of residents in this country temporarily away from it. The other and contrasted grouping includes Commonwealth and alien immigrants to this country, former emigrants returning to England and Wales and the change in the level of overseas visitors here (including, for example, U.S. Forces stationed here and their dependants).

Traditionally the first grouping has usually exceeded the other by more than net immigration here from the Irish Republic and net movement into England and Wales from the rest of the United Kingdom. Recent figures had indicated that for the present the trend had been reversed: immigration from overseas has been in excess of emigration. It was only in 1960, however, that the potential scale of the changeover, from population increases less than the "natural increase" to population increases exceeding the "natural increase" (in fact, more than double four of the nine natural increases in Table II), began to be plain. In the single year 1959-60 the net balance of migration exceeded those of the five years since the trend began. The main factor was the very large increase in the number of overseas Commonwealth citizens coming to England and Wales. Requests to split the 108,000 net addition by migration to the population of England and Wales in 1959-60 into its Scottish, Irish, alien and overseas Commonwealth components suggest a need to stress that the net addition of these elements in our population in that year do not add up to 108,000 but to a much higher figure which is offset (to 108,000) by the net outward movement of English and Welsh. The method of estimating net migration (blunted by lack of detailed statistics but confirmed as to its overall accuracy over the ten intercensal years) does not lend itself to identifying components in this complex movement with any great confidence in the accuracy of each item; but it is plain that there were over 100,000 more overseas Commonwealth citizens in England and Wales at mid-1960 than at mid-1959. In addition to those settling here, this includes, of course, any increase in the pool of visitors who would be counted in a Census at any off-peak period for tourism.

Changes in population structure

The trend of changes in the sex, marital condition and age structure of the population was discussed at length in the 1956 Commentary (pages 6-8). It would clearly be worth while waiting for the detailed results of the 1961 Census before examining the matter in detail again. Although the difficulty in determining the numbers to be used on either side of the migration balance sheet has been surmounted, the sex and age structure of the net outward or inward balance has to rely on some evidence for all aliens and complete evidence only for those (aliens and others) travelling by the Long Sea Routes direct to United Kingdom ports, a continually declining proportion of all migrants. Since 1960 there has been some improvement in our knowledge. The provisional results of the count of enumerators' summaries at the 1961 Census suggested that the proportion of females to males at all ages had fallen to 1,066: 1,000 by then, indicating that earlier assumptions about the sex proportions of migrants were not borne out. This will modify the reliability of the best estimates we are able to make until fuller information is available. With that proviso, the situation may be summarised as follows.

About 106 boys are born for every 100 girls; but the death rates for males are higher than those for females at all ages, so that the number of males per thousand females at mid-1960 falls from 1,054 at ages 0-4 to almost balance in the age-group 30-34, down to 790 at ages 60-64, and only 542 at ages 75 and over (twice as many women as men). The reduction in mortality at younger ages has narrowed the differential between the two sexes and postponed the age-group in which the excess of males at birth is countered by excess male mortality from 5-9 in 1911 to 30-34 in 1960. At older ages the death rates for males have fallen much less than those for females, and consequently the excess of females at these ages has been increasing. At the 1911 Census there were 757 men for every 1,000 women at ages 65 and over; in 1960 the figure was 627.

Age structure

We have already emphasised the remarkable reduction in the number of births which distinguishes the last half-century from the Victorian and Edwardian eras. One result has been a change in the proportion of young to old in the population. At the 1911 Census children under 15 constituted 30.6 per cent of the entire population, while only 5.2 per cent were over 65. The population aged 15-64 amounted therefore to 64.2 per cent of the whole. At mid-1960 the under-fifteens had fallen to 22.8 but those who had passed their 65th birthday made up 11.9 per cent, the group 15-64 being 65.3 per cent of the whole.

There are many and complex consequences of the increase in the number of older people in the community. Many of these arouse widespread interest. An impressive illustration of the effects of fluctuations in the number of births has been provided by the passage of the post-war births "bulge" (which reached its peak with the 881,000 live births in 1947) through the primary and then the secondary education system and its more recent entry into the labour market. The high birth rate in the later years of the nineteenth and earliest of the twentieth centuries represents another "bulge" (spread over a longer period and therefore over a wider age span) which has passed up into older agegroups and has increased the proportion of elderly persons in the population, in spite of having borne the brunt of the loss of life in the 1914-18 War. The resultant effect on the dependency of one sector of the population on another is sometimes illustrated by mere comparison of the "working" and "retired" age-groups (15-64 and 65 and over) or the "National Health Insurance population" (men 15-64; women 15-59) and those beyond these ages. While accepting with necessary qualifications the validity of comparisons between the insured sector (or, if preferred, the 15-64 sector) with the rest of the total de facto or home population, a shorter-term view of the changing picture may overlook one important point which emerges from available figures. The ratio, present and forecast, of the total number of children and old people together (0-15 and 65 and over) to the population as a whole since the 1931 Census has certainly increased. But comparison with the 1911 Census situation shows that this increase—especially that of the elderly component—is a "growing up" process after the population had been rendered unduly youthful by the very large number of births in the later Victorian and immediately subsequent years. The increase therefore represents a stage in the restoration of a more normal age structure.

In 1911 children and old people together amounted to nearly 36 per cent of the entire population (30·6 per cent 0–14; 5·2 per cent 65 and over). In 1931 they were 31 per cent (23·8 per cent 0–14; 7·4 per cent 65 and over). By mid-1960 the proportion had risen to nearly 35 per cent (22·8 per cent 0–14; 11·9 per cent 65 and over). It is estimated that while the proportion will reach 37·4 per cent in 1975 and 38·2 per cent in 1980, it will thereafter revert to about 37 per cent (23·8 per cent 0–14; 13·3 per cent 65 and over) by the end of the twentieth century. Measured in these terms, the economic pressure of dependency has not varied very much and is not substantially greater now than in 1911. But, as part of the "growing up" referred to above, the elderly component has increased to more normal proportions.

Marital condition

Table IV. Proportion married per 1,000 in each age-group, 1931, 1951 and 1960, England and Wales

		or deligited	Males	fire say	A laoba	Females	
Age		1931 (census)	1951 (census)	1960 (estimate)	1931 (census)	1951 (census)	1960 (estimate)
15–24 25–34 35–44 45–54 55–64 65 and over	da di	70 640 855 847 795 619	125 720 862 877 850 664	151 773 871 885 863 695	140 658 752 720 619 341	272 798 820 759 624 352	314 868 871 801 662 341

From Table IV above it will be seen that as a result of the maintenance of relatively high marriage rates generally, and in particular of an increase in the number of marriages at young ages, the married proportion to the rest has increased in all age-groups except for the oldest group of females. In the drop after the early fifties the high incidence of the termination of marriages by death is obviously the significant factor. In the youngest age-group of all the proportion married has more than doubled for both men and women since 1931.

Future prospects

The difficulty of determining whether fluctuations are fortuitous, or indicative of a short-term variation in the established pattern which will peter out with little long-term effect on it, or the beginning of a new trend that will henceforward be steadily maintained or even accelerate slowly or rapidly, does not lessen the need at any one time for the best forecasting possible within the limits of available data. There is a wide field of government, industrial and commercial activity where decisions must take account of long-term population trends.

The assumptions about future fertility, mortality and migration underlying the proportions of Table A5 in Part II of the 1960 *Statistical Review* are under continuous review and revisions are made as often as any change in current conditions appear to warrant them.

On the stated assumptions underlying the projections from mid-1960 (and revised assumptions would lead to different forecasts unless self corrective), the total population will have risen from mid-1960 by 4,560,000 at mid-1980, i.e., from 45,862,000 to 50,422,000, an average annual increase spread over twenty years of 228,000. By mid-2000, with the total population at over 55,000,000, there will be a further addition of nearly 5 millions. It will have maintained a long-term pattern of increase ironing out at perhaps 235,000 a year on average over the last forty years of the twentieth century. The proportion of those under 15 in relation to total population will have risen slightly from 22·8 per cent to 23·4 per cent by 1980 and to 23·8 per cent by the year 2000. Those aged 65 and over, who constitute 11·9 per cent in 1960, will form 14·7 per cent by mid-1980, with a slight fall to 13·3 per cent of the total population by the year 2000.

Men in the working age-group 15–64 (14,710,000 in 1960) will have increased in number to 15,640,000 by mid-1980 and to 17,776,000 by mid-2000. Nevertheless, they will constitute only $31\cdot0$ per cent of the 1980 population, compared with $32\cdot1$ per cent in 1960. In the year 2000 this proportion will be $31\cdot9$ per cent.

MARRIAGES

During 1960 there were 343,614 marriages in England and Wales which was 3,488 more than in 1959. The marriage rates per 1,000 total population and per 1,000 unmarried population aged 15 and over rose slightly between 1959 and 1960. The marriage rate per 1,000 unmarried females aged 15–39, an age-group which accounts for about 90 per cent of all marriages, also rose slightly compared with 1959 as did the corresponding rate for unmarried males aged 20–44.

Table V. Numbers of marriages and marriage rates, 1931 and 1938 to 1960, England and Wales

			1000	1	Marriage rate	S	
				Per	1,000 unmarr	ied popula	tion
Pe	riod	Marriages	Per 1,000 total population	Males aged 15 and over	Females aged 15 and over	Males aged 20-44	Females aged 15–39
1931 1938 1939–50* 1951–55* 1956 1957 1958 1959 1960		311,847 361,768 381,910 350,916 352,944 346,903 339,913 340,126 343,614	15·6 17·6 17·9 15·8 15·7 15·4 15·0 14·9	53·4 61·2 68·2 68·3 70·7 70·1 68·8 68·5 68·8	41·6 47·8 53·0 51·4 52·9 52·4 51·3 51·2 51·6	106·4 124·5 139·7 126·0 157·0 157·8 157·2 158·9 163·6	68·6 85·5 106·2 121·4 131·7 132·3 130·3 129·3 130·9

^{*} Annual averages.

Among the 343,614 marriages celebrated in 1960, 290,887 were between bachelors and spinsters, comprising 85 per cent of the total. A further 10 per cent of all marriages were those where one partner was marrying for the first time but the other was remarrying. In the remaining marriages both partners were remarrying.

First marriages

Bachelors

Among the men who married during 1960, 305,775 (89 per cent) were bachelors, of whom 95 per cent married spinsters. Among the bachelors who did not marry spinsters nearly twice as many married divorced women as married widows.

Table VI. Proportional distribution of first marriages by age-group per 1,000 at all ages, and average age at marriage, 1931 and 1938 to 1960, England and Wales

		8 6	3488		Age at	marriage	e			Average
Period	i	15-	20-	25-	30-	35-	45-	55 and over	Not stated	age at marriage
					BACHE	LORS	cobs. (THE RESERVE
1931 1938		19 17	371 339	410 413	122 146	55 64	14 13	6 5	3 3	27·30 27·72
1939–50 1951–55		29 31	421 478	333 304	122 104	71 59	15 17	5 5	4 2	27·06 26·55
1956 1957 1958 1959 1960	: 0.00: : :	43 49 56 57 59	502 508 520 529 534	286 279 268 261 258	93 90 84 83 79	53 53 51 50 49	17 15 15 14 14	5 5 5 5 6	1 1 1 1	26·15 26·03 25·86 25·77 25·68
					SPINS	TERS				
1931 1938		98 112	480 460	283 278	78 86	41 45	11	4 4	5 4	25·47 25·58
1939–50 1951–55	1000	156 186	504 537	201 161	67 54	48 38	14 16	5 6	5 2	24·75 24·18
1956 1957 1958 1959 1960	19781 111	225 237 250 252 264	530 529 527 534 529	142 134 128 121 117	47 45 42 41 40	33 33 31 30 30	15 14 14 13 13	6 6 6 7 6	2 2 2 2 1	23·73 23·60 23·46 23·37 23·26

Table VII. First marriage rates by sex and age with ratios to those of 1938 taken as 100: 1931 and 1938 to 1960, England and Wales

The ratios were calculated before rounding off the rates

Marriage rate per	Ann	ual marr	riage rate	es per 1,0	00 in eac	h age-gr	roup		to to	Ratios	of rates	to those	of 1938	taken as	100	
1,000 popula- tion over 15	15-	20-	25-	30-	35-	45-	55 and over	Period	15-	20-	25-	30-	35-	45-	55 and over	All ages*
							В	ACHELORS			1000	1				9
56·0 64·8	3·3 3·2	72·3 87·0	152·2 176·8	111·5 127·5	49·8 57·0	16·4 18·5	5.4	1931 1938	100	83 100	86 100	87 100	87 100	89 100	114 100	86 100
71·2	6·4	112·1	175·6	128·3	61·2	20·8	5·1	1939–50	198	129	99	101	107	113	107	113
70·8	6·7	132·1	172·5	107·7	49·1	18·2	5·1	1951–55	205	152	98	84	86	99	107	117
74·7	9·4	149·6	187·6	108 · 8	47·5	17·3	4·9	1956	291	172	106	85	83	94	103	128
74·3	10·6	151·4	186·9	109 · 4	46·8	16·5	4·9	1957	326	174	106	86	82	89	102	129
73·3	11·7	152·5	184·3	105 · 2	44·9	16·3	4·9	1958	360	175	104	82	79	88	102	130
72·7	11·5	154·1	187·6	104 · 9	44·5	15·9	4·8	1959	354	177	106	82	78	86	100	130
73·0	11·7	157·8	190·9	105 · 1	44·6	15·8	4·8	1960	359	181	108	82	78	86	101	137
								SPINSTERS								
51·7	17·1	106·8	119·1	57·2	21·3	7·9	2.2	1931	76	72	77	85	83	92	108	76
61·4	22·6	147·9	154·0	67·2	25·7	8·6		1938	100	100	100	100	100	100	100	100
69·5	36·8	191·1	153·3	72·8	28·9	10·2	2.0	1939–50	163	129	100	108	112	119	100	123
72·0	43·9	232·3	156·5	75·3	29·5	10·4		1951–55	195	157	102	112	115	122	103	143
77·3	54·4	261·0	169·9	79·9	30·9	10·4	$ \begin{array}{c} 2 \cdot 1 \\ 2 \cdot 1 \\ 2 \cdot 1 \\ 2 \cdot 3 \\ 2 \cdot 2 \end{array} $	1956	241	176	110	119	120	121	104	163
77·6	56·6	265·9	168·0	81·3	30·9	10·1		1957	251	180	109	121	120	118	104	166
76·9	57·8	264·0	168·1	79·3	30·5	10·0		1958	256	179	109	118	119	117	105	167
76·8	56·5	265·4	171·2	82·2	30·4	9·9		1959	251	179	111	122	118	115	112	168
77·9	57·7	267·8	172·7	86·6	31·6	10·4		1960	256	181	112	129	123	122	108	175

^{*} Age-standardised.

The proportional age distribution of both bachelors and spinsters and their average ages at marriage are shown in Table VI for 1960 with similar figures for earlier years. The average age of bachelor bridegrooms was 25·7 years, slightly lower than in 1959. The gradual reduction in the average age of bachelor bridegrooms in recent years has persisted. Reference to Table L of Part II shows that the average age for bachelors who marry spinsters is 25·1 years; this also is in line with the declining trend of recent years. The average age at marriage for bachelors marrying widows (41·3 years) and the average age at marriage for bachelors marrying divorced women (33·9 years) differ little from the 1959 figure.

The reduction in the age at marriage shows more clearly in the proportional distribution by age of bachelor bridegrooms. Since the period before the Second World War the proportion of bachelor bridegrooms at ages 20-24 has risen from just over a third to over a half, while the proportion of bachelor bridegrooms aged 25-29 has fallen from just over 40 per cent to just over a quarter. The same tendency to younger age at marriage is demonstrated by the age-group marriage rates shown in Table VII. This table shows a striking increase in the marriage rates of bachelors under the age of 25 and particularly under the age of 20, while the rates for ages 30-54 have tended to fall. The rates for 1960 are slightly above the corresponding rates for 1959 apart from marriages at ages 45 and over. The bachelor marriage rate for all ages over 15 combined rose a little compared with 1959. The equivalent ratio roughly standardised for age (that is the ratio of the actual rate for all ages over 15 shown in the first column of Table VII to the rate which would have resulted if the 1938 age rates had been in operation) was higher in 1960 than in 1959 owing to the greater weight given to young marriages in this ratio.

The rates in Table VII for ages under 30 for 1956–59 differ slightly from those already published for those years, due to revision of the estimates of the population by sex, age and marital condition on which they are based for the years in question.

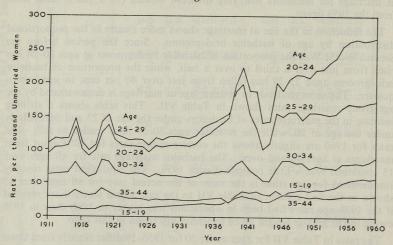
Spinsters

Spinster brides formed 90 per cent of all women who married in 1960. Of all spinster brides 94 per cent married bachelors, the remainder being divided between those who married widowers and those who married divorced men in a ratio of 4 to 6. The average age of spinster brides was 23·3 years, 2·4 years younger than the average age of bachelor bridegrooms. In those marriages where spinsters married bachelors the average age of the bride was 22·5 years, 2·6 years younger than the average age of her husband. All this is part of the downward trend in marriage ages. There are exceptions in special groups. The mean age of spinsters marrying widowers, at 43·2 years, is tending to rise (as is also the average age of bachelors marrying widows), while the average age for spinsters marrying divorced men, at 30·4 years, remains fairly constant.

The reduction in the age at marriage since before the Second World War is even more marked for spinsters than for bachelors. More than a quarter of spinster brides in 1960 were under 20 years of age compared with 10 per cent in 1931 and 11 per cent in 1938. This period has also seen a steady decline in the proportion of spinster brides aged 25–29 corresponding to the rise in the proportion under 20. In contrast to the experience of bachelors, Table VII and Diagram 1 show that since before the Second World War marriage rates

of women have risen at all ages. This rise has been proportionately much greater at the youngest ages. Compared with 1959, the 1960 rates have risen slightly at all ages under 55. The spinster marriage rate per 1,000 single women over the age of 15 rose a little compared with 1959 and the age standardised ratio (already described) rose from 168 to 175 as compared with a rise of only one point in each of the two preceding years.

Diagram 1



Marriage rates* of women by age, 1911 to 1960, England and Wales

Minors

During 1960 there were 40,160 marriages in which the bridegroom was aged under 21 and 125,096 where the bride was aged under 21. These numbers correspond with 37,401 and 120,838 respectively in 1959. Among the brides under 21 years of age 18,387 were aged 16 or 17 and 25,827 were 18 years old. Brides marrying under 21 outnumbered bridegrooms under that age by just over three to one, this ratio having fallen from nearly five to one in 1938 and over four to one in 1954.

The bridegroom was a minor in $11 \cdot 7$ per cent of all marriages in 1960 compared with $11 \cdot 0$ per cent in 1959 and $6 \cdot 9$ per cent in 1954. More than a third ($36 \cdot 4$ per cent) of all 1960 brides were minors. This was similar to the proportion of brides who were under 21 in 1959. The proportion has risen from $28 \cdot 6$ per cent in 1954. These increases illustrate in another way the general tendency to younger age at marriage.

There were 32,884 marriages where both the bride and the bridegroom were under the age of 21. This represents 9.6 per cent of all marriages and constitutes just over a quarter of all the marriages where the bride was a minor.

During 1960 there were 37,839 men who remarried, of whom 19,366 were widowers and 18,473 were divorced men; 34,141 women remarried, 16,412 being widows and 17,729 divorced women. Combined remarriage rates for both widowed and divorced men and women are shown in Table VIII for 1960 and also for earlier periods from 1931. The remarriage rate per 1,000 population over 15 and the equivalent ratio roughly standardised for age (already discussed in the section dealing with first marriages) were both higher for men in 1960 than they were in 1959 but were lower for women. All the age rates for men rose except that for the 35-44 age-group and for women all the age rates rose. The rates for the 20-24 age-group for both men and women are subject to considerable fluctuations which arise from the small numbers at risk.

Widowed persons

Among the 19,366 widowers who remarried during 1960, nine in every twenty married widows, nearly eight in twenty married spinsters and three in twenty married divorced women. A similar classification of the widows who remarried in 1960 shows that nearly eleven in every twenty married widowers, six in twenty married bachelors and three in twenty married divorced men. These proportions are similar to those which have obtained during recent years. For the last thirty years a higher proportion of widowers have married spinsters than widows have married bachelors, although the former proportion has fallen from over 60 per cent between 1926 and 1940 to the current level of about 40 per cent. The proportion of widows who marry bachelors has fallen since 1950 from just under a half to the current level of about 30 per cent. A large part of the decline in the proportion of widowed persons who marry spinsters and bachelors corresponds to the rise in the proportion who marry divorced persons but there has also been a slow rise in the proportion of widowed persons who intermarry.

The proportional age distributions of widowers and widows who remarried in 1960 and also during selected periods since 1891–95 are shown in Table IX.

In 1960 just over two-fifths of the widowers who remarried were over 60 years of age. This compares with a proportion of a quarter for widows. It is clear from Table IX that the widows who remarried in 1960 had a younger age distribution than the widowers and Table L in Part II shows that the average age at remarriage for widowers was 57 years compared with 51 for widows. This age difference of six years is greater than the average difference in age at marriage of spinsters and bachelors. This is generally to be expected as the women at risk of marriage to a relatively old widower will tend to be younger than he is, i.e. there are more younger than older women to choose from. The older the widower the greater the possible difference in age between him and his partner.

Over the period shown in Table IX the age at remarriage of widowed persons has risen as a result of the improvement in mortality conditions over the last 70 years which has increased the mean age of widowhood. In 1891–95, over half the widowers who remarried were under 45 years of age compared with 16 per cent in 1960. At the other end of the scale, only 5 per cent were aged 65 and over in 1891–95 compared with more than a quarter in 1960. A similar change can also be seen for widows. The increased proportions of remarriages at relatively young ages in 1916–20, 1921–25, 1941–45 and 1946–50, as shown in Table IX, reflect the higher mortality (and higher widowhood) during the two world wars.

^{*} 1911–37: all marriages per 1,000 spinsters, widows and divorced women. 1938–60: first marriages per 1,000 spinsters.

Table VIII. Remarriage rates by sex and age with ratios to those of 1938 taken as 100: 1931, and 1938 to 1960, England and Wales

The ratios were calculated before rounding off the rates

Marriage rate per 1,000	An	nual marria	age rate per	1,000 in e	ach age-gr	oup	第五百 百		Ratio of r	ates to the	ose of 193	8 taken a	is 100	
popula- tion over 15	20-*	25-	30-	35-	45-	55 and over	Period	20-*	25-	30-	35-	45-	55 and over	All ages†
			建		WIDO	WERS AN	D DIVORO	CED MEI	V	1.00	555	7 57 6		
35·8	139·2	172·7	189·2	133·5	67·6	14·9	1931	91	99	76	87	85	94	88
38·1	153·6	174·5	248·0	152·6	79·1	15·9	1938	100	100	100	100	100		100
50·5	217·6	425·9	338·1	214·8	106·0	17·6	1939–50	142	244	136	141	134	111	133
55·2	133·7	406·8	318·8	206·4	117·2	19·7	1951–55	87	233	129	135	148	124	137
50·5	310·7	322·3	262·8	168 · 8	109·7	20·1	1956	202	185	106	111	139	126	123
48·4	317·9	324·4	255·9	157 · 6	105·3	20·1	1957	207	186	103	103	133	126	119
45·8	423·0	337·9	253·2	146 · 1	98·5	19·6	1958	275	194	102	96	125	123	113
46·7	503·2	349·2	257·5	145 · 2	97·9	20·8	1959	328	200	104	95	124	131	116
47·3	504·4	363·9	276·8	142 · 9	99·7	21·1	1960	328	209	112	94	126	132	121
2					WIDO	WS AND I	DIVORCED	WOME	V					
9·8 10·2	128·2 197·1	138·8 172·4	94·1 114·2	36·5 50·1	14·1 14·7	2.2 2.5	1931 1938	65 100	81 100	82 100	73 100	96 100	89	82 100
15·7	294·0	308·6	170·3	73·0	21·6	2·7	1939–50	149	179	149	146	146	109	145
16·1	403·0	355·6	188·2	84·2	29·3	3·0	1951–55	204	206	165	168	199	122	168
14·4	382·4	361·6	196·1	80·5	29·7	3·0	1956	194	210	172	161	201	122	172
13·6	402·8	346·1	186·3	77·6	29·9	3·0	1957	204	201	163	155	203	121	170
12·6	457·2	325·6	210·8	73·2	28·3	3·0	1958	232	189	185	146	192	120	163
12·8	453·5	326·1	212·5	79·1	29·9	3·0	1959	230	189	186	158	203	122	172
12·7	458·4	337·3	222·6	80·4	30·1	3·2	1960	233	196	195	160	204	128	170

^{*} Based on small numbers. † Age-standardised.

Table IX. Proportional age distribution at remarriage of widowed persons, 1891 to 1960, England and Wales

	out.	State of the state	0 1		Age o	f wido	wers		0 10 10			· · · · · · · · · · · · · · · · · · ·				R.F.	Age	of wide	ows				
	Under 25	25-	30-	35-	40-	45-	50-	55-	60-	65 and over	Not stated	Period	Under 25	25-	30-	35-	40-	45-	50-	55-	60-	65 and over	Not stated
	12	76	132	153	148	126	106	74	55	47	71	1891–1895	28	115	170	177	157	119	78	47	29	14	66
	10	73	131	158	150	136	109	84	56	49	44	1896–1900	27	113	175	188	157	127	81	50	28	14	40
19	10	68	130	155	152	136	116	83	62	52	36	1901–1905	29	122	182	190	158	118	78	47	29	15	32
	8	61	123	153	152	141	119	90	62	61	30	1906–1910	24	106	177	192	160	129	82	52	30	20	28
	7	53	109	151	150	146	125	97	68	71	23	1911–1915	22	98	167	193	171	135	85	51	32	27	19
	7	54	105	138	151	155	130	101	70	65	24	1916–1920	70	189	191	162	126	98	64	41	24	19	16
	8	55	109	137	135	136	126	104	79	87	24	1921–1925	26	134	200	182	138	109	77	52	33	30	19
	6	49	91	117	126	133	133	116	91	114	24	1926–1930	15	76	145	175	156	135	103	75	50	51	19
	6	46	97	112	119	126	131	120	96	124	23	1931–1935	16	72	131	162	157	143	110	76	53	62	18
	5	43	89	112	113	124	130	126	101	134	23	1936–1940	18	70	116	149	154	146	115	83	61	69	19
	6 6 3 2 2 3 3	35 37 23 17 15 14 16 15	70 68 49 40 36 32 29 28	99 95 65 55 51 55 54 52	115 106 92 77 75 69 64 62	123 122 117 110 112 107 102 103	134 127 141 137 139 141 137	130 127 143 161 167 157 163 169	112 113 129 139 139 144 147 151	151 179 221 244 246 260 268 264	25 20 17 18 18 18 17 16	1941–1945 1946–1950 1951–1955 1956 1957 1958 1959 1960	66 46 13 15 14 12 15 17	110 151 52 41 37 31 37 37	117 150 101 72 65 58 58 52	118 130 117 103 101 102 94 87	134 110 132 133 124 114 109 109	134 114 142 147 152 153 151 153	105 95 138 143 145 145 149 147	79 72 105 120 124 130 124 128	59 57 87 99 106 113 116 125	59 60 98 112 116 127 131 132	19 15 15 15 16 15 16 13

An attempt has been made to compute remarriage rates for the widowed and divorced separately for years since 1951. These are rather tentative estimates, particularly at the younger ages, but probably give the correct impression of the main differentials. The figures are shown for ages over 25 in Table X.

Table X. Remarriage rates of widowed and divorced persons by sex and age, 1951 to 1960, England and Wales

Per 1,000 population in each group by age and condition

		N	1 en			la sié	4 5,55		Wor	men		
All	25-	30-	35-	45-	55 and over	Year	All	25-	30-	35-	45-	55 and over
						Widowe	d				Pake 1	
32	227	204	148	94	18	1951	9	165	113	56	22	3
32	236	204	151	93	18	1952	8	174	121	54	23	3
31	231	210	147	90	18	1953	8	180	111	56	22	3
30	217	188	145	89	18	1954	8	215	110	54	23	3
31	223	201	150	92	19	1955	8	255	127	56	24	3
29	217	187	137	83	19	1956	7	277	125	56	23	3
29	220	176	133	85	18	1957	7	278	133	54	23	3
28	217	156	129	81	18	1958	6	220	133	51	22	3
29	268	156	130	81	19	1959	7	235	168	53	23	3
29	257	170	131	84	19	1960	7	231	179	54	24	3
]	Divorced	ı					
288	528	410	283	195	89	1951	153	373	246	144	68	22
254	455	409	270	197	86	1952	150	406	247	146	73	21
227	371	380	244	175	84	1953	136	378	240	132	70	20
209	338	372	227	163	76	1954	125	370	226	125	63	19
206	333	389	230	156	71	1955	125	384	236	128	64	20
191	343	358	212	150	71	1956	116	381	228	122	60	18
175	346	346	200	131	64	1957	108	361	219	117	58	17
161	364	336	182	119	59	1958	99	350	217	109	53	16
160	366	361	190	116	57	1959	97	351	228	110	54	16
158	385	384	188	116	57	1960	94	368	236	110	51	16

Over the age of 35 the remarriage rates for widowers have been considerably higher than the corresponding age rates for widows and the all ages rate for widowers has been three or four times that for widows. Since 1951 there appears to have been a tendency for the remarriage rate for widowers to fall. The rate for widows under the age of 35 has tended to rise while the rates for widows over the age of 35 have remained relatively stable; it has already been shown in Table IX that young widows form a small, and decreasing, proportion of all widows remarrying.

Divorced persons

Among the 18,473 divorced men who remarried during 1960, 60 per cent married spinsters, 13 per cent married widows and the remaining 28 per cent married divorced women, while of the 17,729 divorced women who remarried, 55 per cent married bachelors, 16 per cent married widowers and 29 per cent married divorced men. The proportional distribution of marriages of divorced

men according to the prior marital condition of their marriage partner was similar to those of recent years, although the last thirty years have seen a fall in the proportion of divorced men who marry spinsters from nearly 80 per cent to the present level of 60 per cent. This decline is accounted for by the increased frequency of divorce during this period with the consequent rise in the proportion of divorced men who marry divorced women simply because there are more divorced persons in the population to remarry. The distribution of marriages of divorced women according to the prior marital condition of their marriage partner in 1960 is also similar to those of recent years, and the main feature of the last thirty years has again been the increase in the proportion of divorced women who marry divorced men; this proportion has recently been at a level which is two and a half times that which obtained in the 1926–30 period. The main compensating fall has been in the proportion of divorced women who marry bachelors.

Table XI shows the proportional age distribution of divorced men and women who remarried in 1960 and in earlier years going back to 1941–45.

This table shows that about two in every five divorced persons who remarried in 1960 were between the ages of 30 and 40 (compared with only 11 per cent of bachelors and 6 per cent of spinsters). The age distribution of divorced men is rather older than that of divorced women and this is reflected in Table L of Part II which shows that the average age at marriage of divorced men who remarried in 1960 was 41 compared with 37 for divorced women. The age distribution of remarriages of divorced men and women in 1960 was a little older than that for the 1941–45 period but the main feature demonstrated by Table XI is the comparatively young age distribution of the remarriages of divorced persons immediately after the Second World War, a peak period for remarriages of divorced persons closely linked with the peak in the number of divorces during the same period.

Separate remarriage rates for divorced men and women are shown in Table X. The remarriage rates for divorced men and women have been much higher than those for widowed men and women at all ages. These high rates point to a relatively short average interval between divorce and remarriage and this is particularly marked at the younger ages. For both men and women the rates decline with age, rapidly up to the age of 35 and then more slowly. The remarriage rates for divorced men are higher than those for divorced women at all the ages shown in Table X.

Since 1951 the remarriage rates for divorced men have declined and a similar, but less well marked, reduction is apparent for divorced women. The rates for 1960 indicate some weakening of this downward trend but, because of the tentative nature of these estimates, annual variations in the rates should be treated with some caution.

The relation between marriage rates and population structure

A set of marriage rates can be summarised in the form of a nuptiality table in the same way as death rates may be presented in the form of a life table. This is a convenient way of demonstrating the implications of a set of marriage rates and the results can be combined with fertility rates or mean family sizes in the calculation of replacement rates (see page 56).

Table XI. Proportional age distribution at remarriage of divorced persons, 1941 to 1960, England and Wales

		18 E		A	ge of	divorc	ed mer	1					8.9.9			Ag	e of di	vorced	wome	en			
	Under 25	25-	30-	35-	40-	45-	50-	55-	60-	65 and over	Not stated	Period	Under 25	25-	30-	35-	40-	45–	50-	55-	60-	65 and over	Not
	11	78	196	247	202	135	73	35	15	7	1	1941–1945	30	169	262	229	161	87	37	16	6	1	2
33	12	150	242	236	168	102	51	23	10	5	1	1946–1950	66	285	251	188	109	60	26	9	4	1	1
	11	117	223	206	181	129	75	34	15	9	0	1951–1955	49	213	260	187	137	85	42	17	6	3	1
	15 13	116 119	200 200	191 200	173 164	143 140	89 87	46 48	17 18	9	1 0	1956 1957	55 55	194 192	232 217	192 194	142 146	99 103	52 56	22 23	8 8	3 5	1
	14	119	191	202	160	142	90	49	21	12	0	1958	59	191	211	200	136	106	58	24	10	4	1
	14	114	.192	206	154	137	96	51	23	12	1	1959	57	185	208	200	136	109	62	26	11	5	1
	16	119	187	198	151	139	98	54	23	14	1	1960	62	191	201	193	139	108	60	28	11	6	1

Net nuptiality tables for males and females based on the marriage rates of 1951–55 were published in Appendix C of the 1956 Commentary. Since then marriage rates at the younger ages have risen and abridged nuptiality tables have been calculated to indicate the general effect of this rise. Table XII has been produced from the 1951–55 nuptiality tables and abridged nuptiality tables for 1960; it shows the proportions ever-married between the ages of 15 and 50 which would result if the marriage rates for these particular years were to continue indefinitely. Table XIII, on the other hand, shows the proportions ever-married at these ages for census years since 1881 and also in the annual population estimates for 1941, 1946, 1956, 1959 and 1960.

Table XII. Proportions ever-married, according to the net nuptiality of 1951-55 and 1960, England and Wales

1	n	. 7	7\
(Per	thou	sand)

60	Age-group	Nuptial	lity of 1960
60	prochesta at circul 20-3	1951–55	1960
1			
0	15–19 20–24	49 528	62 592
50	25-29	838	887 939
	35–39	931	954
	40–44 45–49	940 945	960 964
	31 19 36 43	35–39 40–44	35–39 36 40–44 940

Table XIII. Proportions ever-married among men and women, 1881 to 1960, England and Wales

(Per thousand)

		A	ge of m	en			Year	Age of women								
15-	20-	25-	30-	35-	40-	45-49	Tear	15-	20-	25-	30-	35-	40-	45-49		
5	223	609	769	848	878	901	1881	26	335	649	777	834	861	877		
4	194	573	753	838	871	896	1891	20	299	606	754	823	850	871		
3	174	548	748	824	861	886	1901	16	274	588	745	801	831	858		
2	143	508	728	814	852	873	1911	12	243	566	730	790	820	835		
4	178	554	769	837	863	876	1921	18	274	590	740	796	821	832		
3	139	529	782	863	887	890	1931	18	258	594	751	794	819	832		
9	203	617	803	864	888	906	1941	39	402	719	783	801	827	831		
9	199	612	798	864	881	891	1946	35	442	713	829	832	836	840		
5	238	651	810	867	891	902	1951	44	482	783	854	867	858	848		
8	277	665	835	875	897	911	1956	55	542	813	884	890	895	869		
12	318	674	843	883	899	916	1959	61	569	835	900	899	909	885		
9	301	714	846	885	898	917	1960	61	579	851	906	902	913	891		

On the basis of 1960 nuptiality, only 5.7 per cent of the men and 3.6 per cent of the women in the 45-59 age-group would remain unmarried. Comparison between Tables XII and XIII shows that at all but the youngest ages the proportions implied by either the 1951-55 or the 1960 marriage rates are rather higher than any that have actually been recorded in England and Wales. The proportion ever-married for the 45-49 age-group based on 1960 nuptiality exceeded the proportion in the estimated population at mid-1960 by 3 per cent for men and 7 per cent for women.

It should be remembered that nuptiality tables are based on a population with a particular sex and age structure. It is therefore possible for the male and female tables to be inconsistent in the sense that if the marriage rates on which they are based were to continue in effect indefinitely, they would produce more marriages of men under 50 than of women under 45 whereas in practice these two are usually about equal in number. The reason for this feature is that the sex and age structure of the present unmarried population still contains the balance of the former surplus of women which is now, however, becoming confined to the older ages where few marriages take place. In this way the abridged nuptiality table of 1960 implies 3 per cent more marriages of men under 50 than of women under 45 (the excess was 2 per cent in the 1959 abridged nuptiality table).

The probabilities of marriage on which the abridged nuptiality tables for a given year are based refer to the experience of different generations in a single calendar year. This makes them of limited value as a guide to long-term prospects for which it would be better to compare the experience of different generations at the same ages but in different calendar periods, rather than different generations at different ages in the same calendar period, as is done in Table XIII.

Such proportions were in fact calculated for selected generations between 1862–66 and 1937–41 and published in Table XV of the 1959 Commentary. This table illustrated the slow but steady rise in the proportion ever-married at 45–49 for both men and women. There has been a rise in the proportion ever-married in all age-groups for both men and women since the beginning of this century, although the generations of women born in the later part of the 19th century experienced a slight fall in the proportion ever-married as compared with their predecessors. The proportion ever-married at ages 45–49 seems likely to rise, particularly for women. It also seems likely that the proportions ever-married in particular generations of men and women will move towards those implied by the nuptiality tables unless any major disturbing factor arises.

Comparisons have been made above between the proportions of men and women in the same age-group. Allowance should, however, be made for the difference between the average age at marriage of men and women. In order to obtain a useful estimate of the relative numbers of men and women in the main marrying age-groups a rough allowance has been made for this difference by relating the average of the male populations at ages 15–44 and 20–44 last birthday (about $17\frac{1}{2}$ –45 in exact years) to the average of the female populations at ages 15–44 and 15–39 last birthday (15–42 $\frac{1}{2}$ in exact years). The estimates so obtained are as follows:

figo per cent Comparison	th area barry	n odli i odraci	Cei	nsus	Mid-	Nuptiality table	Abridged nuptiality		
	1871	1901	1911	1921	1931	1951	1960 (estimate)	1951–55	table 1960
All conditions	877	876	892	846	892	988	1,000	1,039	1,041
Unmarried	786	787	808	724	800	968	1,054	1,087	1,105

The last two columns are based on the average number of survivors in the nuptiality table for 1951–55 and the abridged nuptiality table for 1960 and it should be remembered that the ratios for the unmarried in these columns are affected by the inconsistency in male and female marriage rates which has already been discussed. If the female rates were to become consistent with the male there would be fewer unmarried women left and the ratios would be slightly larger. The sequence of the figures shows that a combination of factors, including the slight increase in the proportion of male live births, the decrease in the predominantly male net emigration and the much smaller number of male war deaths in 1939–45 than in 1914–18, has been establishing a balance between the sexes in the corresponding marrying age-groups referred to above.

Total married women of reproductive age

The effect of high marriage rates in raising the proportion of the population which is married is an important determinant of the fertility of the community which depends to a considerable extent on the number of married women in the population. Table XIV shows the proportions married in five year age-groups under 50 for selected years since 1911 when the rise in the proportion married first became apparent. The proportions are also shown for the 15–49 aggregate age-group and also for the more critical 20–39 age-group within which 90 per cent of the births occur.

Table XIV. Married women per 1,000 total female population in each age-group and ratio of proportion to that of 1911 taken as 100: 1911, 1931, 1938, 1946, 1951 and 1957 to 1960. England and Wales

Year				A	Age-grou	p	600-1		Aggr	egates
		15–19	20–24	25–29	30–34	35–39	40-44	45-49	20–39	15–49
0.5000000		Ma	arried wo	men per	1,000 to	tal fema	le popula	ition		
1911 1931 1938	::	12 18 23	242 257 328	558 587 643	711 733 733	752 755 771	755 749 768	729 733 736	552 572 623	502 529 566
1946		35	436	696	800	797	784	762	686	626
1951		42	475	769	828	832	812	780	731	666
1957 1958 1959	a. col	59 60 61 61	552 561 567 577	814 822 829 843	872 880 886 892	862 867 871 874	851 856 862 868	810 815 821 827	782 789 794 800	703 706 707 710
nol ogs							taken as			eggeran s eger avec
1911 1931 1938	::	100 151 192	100 106 136	100 105 115	100 103 103	100 100 103	100 100 99 102	100 101 101	100 104 113	100 105 113
1946	africa)	294	180	125	113	106	104	105	124	125
1951	nds de	354	197	138	116	111	108	107	132	133
1957 1958 1959 1960		500 503 513 513	228 232 235 235 239	146 147 150 151	123 124 125 126	115 115 116 116	113 113 114 115	111 112 113 113	142 143 144 145	140 141 141 141

The proportion married increases with advancing age, at first rapidly and then more slowly, to a maximum close to age 35; as new marriages are increasingly offset by widowhood the proportion then declines slowly. The proportion married has increased for each age-group throughout the period shown in Table XIV.

The main feature of the figures for individual age-groups is the change which has taken place at the youngest ages; there has been a fourfold increase in the proportion married at ages 15-19, by far the larger part of this change having occurred since 1938. In general the picture is one of a slow rise up to the start of the Second World War and a much accelerated rise since then. The 15-49 age-group represents the fraction of the reproductive years which fall within married life, and Table XIV shows a slight increase in this fraction from 50.2 per cent to 52.9 per cent between 1911 and 1931 followed by a more rapid rise to 56.6 per cent in 1938 and 71.0 per cent in 1960. These increases are partly due to the ageing of the 15-49 age-group since 1911 which has increased the relative number at the older ages in this age-group where the proportion married is greater. This element can be removed by calculating the number of women who would have been married if the age-group proportions married had been those of 1911; the actual number of married women can then be divided by the standardised number to produce a set of marriage indices standardised on the 1911 proportions married. These indices are compared with the unstandardised figures derived from Table XIV in the following statement:

Year	1911	1921	1931	1941	1951	1956	1959	1960
Standardised	1.000	1.008	1.022	1.125	1.200	1.257	1.291	1.304
	1.000							

The above figures show that the true increase in the proportion married among women aged 15-49 was 30 per cent compared with the 41 per cent suggested by the unstandardised proportions. A little less than a third of the latter increase is due to the ageing of the population and is unrelated to the changing incidence of marriage.

Seasonal incidence of marriage

The numbers of marriages and rates per 1,000 population by calendar quarter are shown in serial form in Table D of Part II and monthly numbers of marriages since 1947 are shown in Table N with ratios of the daily average for each month to that of the calendar year.

The proportions of the marriages of each year which took place in each quarter for years since the 1841–50 period are shown in Table XV.

The quarterly distribution of marriages in 1960 differs a little from that of recent years. The September quarter accounted for 30 per cent of the year's marriages, the March quarter for 26 per cent, the December quarter for about 23 per cent and the June quarter for 21 per cent. Part of the difference in the March and June quarters between 1960 and 1959 is due to Easter falling in April in 1960, but in March in 1959. Table XV illustrates the change which has taken place during the last hundred years. In the 1851–60 period the December

Table XV. Proportion of marriages in each quarter, 1841 to 1960, England and Wales

	untries insulation	Quarte	er ended	tax law.
Period	March	June	September	December
1841–1850 1851–1860 1861–1870 1871–1880 1881–1890 1891–1900 1901–1910 1911–1920 1921–1930 1931–1935	206 205 204 197 184 182 186 170	255 252 252 253 257 265 265 263 266 260	239 242 246 245 250 266 280 280 303 317	301 300 297 298 296 285 273 271 261 261
1936–1940	212 218 289	253 268 250 206 191	321 276 303 303 301	260 244 229 202 203
1956	317 302 298	195 190 195 186 212	303 299 299 302 301	199 194 204 214 228

quarter accounted for 30 per cent of all marriages, the June and September quarters for about a quarter each and the March quarter had the smallest share with 21 per cent. The period up to the outbreak of the Second World War saw a steady rise in the proportion of marriages in the September quarter, while the share of the December and March quarters fell. The effect of these changes was such that in the 1936–40 period the share of the September quarter had risen to 32 per cent of the total and the proportions in the March and December quarters had fallen to 17 and 26 per cent respectively; during this period the share of the June quarter rose very slowly. The period since 1940 has been marked by the rapid rise in the proportion of marriages in the March quarter. This rise has had the effect of reducing the proportions in all the other quarters, but particularly in the June and December quarters.

Table XVI is an extract from Table N of Part II showing the numbers of marriages in each month and also the ratios of the daily averages for each month to the daily averages for the calendar years for recent years. The most noticeable feature is the peak in March when the daily average in 1960 was 1.8 times that for the year as a whole; this compares with a 1959 figure for March of 2.3 times that for the year as a whole. There is a secondary peak in September which is approached by slowly rising ratios for the period from June onwards in contrast to the isolated peak in March. The tendency to a pronounced peak in March irrespective of the date of Easter seems to have become steadily more marked over the last ten years, although the evidence of the quarterly figures discussed above suggests that the shift towards March may well have started during the Second World War. No doubt the main current influence

Table XVI. Monthly incidence of marriage, 1947 to 1960, England and Wales

Period	January	February	March	April	May	June	July	August	Septem- ber	October	Novem- ber	Decem- ber	Total for period
					1	Numbers of	f marriages						
1947–1950	79,800	86,917	172,641	137,984	88,828	151,447	162,258	146,750	162,808	105,026	82,372	154,801	1,531,632
1951–1955	77,794	106,484	322,146	127,251	85,085	149,785	173,716	172,504	185,313	114,109	81,472	158,920	1,754,579
1956 1957 1958 1959 1960	13,651 13,894 12,940 15,430 15,596	19,898 19,954 20,777 18,972 21,163	73,573 76,244 68,912 67,028 52,185	21,113 19,034 21,229 20,121 30,016	15,529 12,150 17,434 17,142 13,447	32,179 34,620 27,548 26,018 29,432	30,144 28,458 27,900 27,390 33,131	34,503 38,192 37,115 35,601 29,414	42,276 36,967 36,683 39,600 41,035	21,158 21,817 24,005 32,649 36,503	15,947 18,199 19,048 15,548 15,461	32,973 27,374 26,322 24,627 26,231	352,944 346,903 339,913 340,126 343,614
			Ratio of	daily avera	age for the	month to c	daily avera	ge for the y	ear taken a	as 1,000			
1947–1950	614	734	1,328	1,097	683	1,204	1,248	1,129	1,294	808	655	1,191	1,000
1951–1955	522	786	2,163	883	571	1,039	1,166	1,158	1,286	766	565	1,067	1,000
1956 1957 1958 1959 1960	456 472 448 534* 536*	712 750 797 727 777	2,462* 2,588* 2,387* 2,320 1,793	730 668 760 720 1,066*	520 412 604* 593* 462	1,113* 1,214* 986 931 1,045	1,008 966 966 948 1,138*	1,155 1,296* 1,286* 1,232* 1,011	1,462* 1,297 1,313 1,416 1,457	709 741 832 1,130* 1,254*	552 638* 682* 556 549	1,104* 929 912 852 901*	1,000 1,000 1,000 1,000 1,000

* These months contained five Saturdays.

towards this peak in March is that the income tax year ends on April 5th causing some people to bring their marriage forward into the earlier tax year to take advantage of the additional tax relief. A similar phenomenon has been noted in some other countries, the month depending on the local tax law.

Apart from the concentration in March, there is a tendency towards an annual cycle from the secondary peak already noted in the late summer to the relatively few marriages in the winter months, but these features are affected by the concentrations associated with Easter and Christmas. The true monthly pattern is further disturbed by the distribution of marriages over the days within the week. The popularity of Saturday marriages means that figures for the same month can differ from year to year according to the number of Saturdays in the month. The months marked in Table XVI contained five Saturdays and such months usually have higher ratios than the same months when they contain only four Saturdays.

Marriage incidence in different parts of the country

The numbers of marriages in regions, counties, and county and metropolitan boroughs are shown in Table F of Part II, and the number of persons marrying in each region and conurbation by age and previous marital condition in Table M. These figures have to be used with caution because the district where the marriage takes place may contain the residence of only one of the parties and sometimes of neither. This factor distorts differences between marriage rates for local areas, though less so in comparisons between areas as large as regions and conurbations, and Table XVII shows the marriage rates of 1960 for these areas. In addition to the marriage rates per 1,000 population of all ages, Table XVII shows the marriage rates per 1,000 unmarried women in the age-groups between 15 and 44 and also for the 15–44 aggregate in both an unstandardised form and, in addition, standardised on the England and Wales age distribution. The ratios of the 15–44 age-group rates on the different bases for regions and conurbations to those of England and Wales also appear in Table XVII.

The West Midlands Conurbation has the highest rate per 1,000 population for the individual areas shown in Table XVII. This rate is 12 per cent higher than the rate for England and Wales. Two other conurbations (Greater London and Merseyside) have marriage rates per 1,000 population which are 11 and 10 per cent respectively higher than for England and Wales as a whole; the London and South Eastern Region has the highest rate for a complete region. At the other extreme the Eastern Region has a rate which is 19 per cent below that of England and Wales, and the Southern Region and Wales II also have low marriage rates per 1,000 population.

If the comparison is made in terms of the number of marriages per 1,000 unmarried women aged 15–44 a rather different picture emerges, indicating that many of the differences in the marriage rates per 1,000 population are due not to variations in the probability of marriage but to differences in the sex, age and marital condition structure of the populations of the different areas. The West Yorkshire and West Midlands Conurbations and the North Midland Region have the highest rates per 1,000 unmarried women aged 15–44. On the other hand, the Eastern Region and Wales II still have relatively low rates on this basis. The Merseyside Conurbation, where the marriage rate per 1,000 unmarried is 10 per cent above the England and Wales rate, has a rate per 1,000 unmarried

Table XVII. Marriage rates in regions and conurbations, 1960, England and Wales

The ratios were calculated before rounding off the rates

	Perso	25	Women	marrying pe	er 1,000 unn	married won	nen aged		Ratio of rate to that of England and Wales		
Area	marry per 1,0 popula of al	ng 100 tion 1 15–	20-	25-	30-	35–44	15-	-44	Persons marrying per 1,000	Women in per 1,000 women 15-	unmarried
A SERVICE A SERV	ages					8 8 8	Unstan- dardised	Standar- dised	population of all ages	Unstan- dardised	Standar- dised
ENGLAND AND WALES	15	0 57.7	268 · 4	180 · 7	103 · 3	45.0	114.0	114.0	1,000	1,000	1,000
Northern Region	1.4	6 45.5	275·2 266·2 278·8	185·0 168·0 192·4	98·2 97·9 98·3	43·5 46·7 42·1	109·9 108·9 110·2	109·8 106·3 111·3	987 1,038 968	964 956 967	964 933 976
East and West Ridings West Yorkshire Conurbation Remainder of East and West Ridings	15.	4 61.0	305·2 290·6 315·9	203·0 205·9 200·9	107·5 106·0 108·9	43·6 46·0 41·5	120·3 121·2 119·6	124·2 122·8 125·3	1,000 1,024 983	1,055 1,063 1,049	1,090 1,077 1,100
North Western Region	15.	3 63·2 5 48·6	269 · 8 289 · 3 233 · 3 278 · 5	176·5 181·6 180·1 169·6	93·9 96·6 94·5 90·9	39·7 40·0 40·9 38·7	112·5 118·6 103·9 112·6	112·1 120·3 100·7 112·8	1,012 1,021 1,100 959	987 1,041 911 988	984 1,055 883 990
North Midland	14	7 65.8	296.7	203 · 0	111.8	49 · 1	123.0	127.0	976	1,080	1,114
Midland	15· 16· 14·	8 65.0	283 · 8 288 · 7 278 · 3	182·1 197·2 166·6	102·7 122·3 84·6	49·9 51·3 48·5	120·8 127·0 114·4	120·7 125·4 115·9	1,036 1,119 955	1,060 1,114 1,004	1,059 1,100 1,017
Eastern	12.	2 52.2	233 · 2	143 · 6	86.0	39 · 5	98.6	98.9	814	865	867
London and South Eastern Region Greater London Conurbation Remainder of London and South Eastern	16· 16· 15·	6 55.5	254 · 6 242 · 8 296 · 0	187·3 189·1 180·7	113·5 116·8 101·7	47·2 48·9 41·9	115·3 114·2 118·7	112·3 109·3 122·2	1,094 1,105 1,060	1,012 1,002 1,042	985 959 1,073
Southern	13.	6 60.5	253.0	172.3	99.6	44.2	108.9	111.1	908	956	974
South Western	14	3 59.6	269 · 5	170.3	104 · 4	45.6	113.2	114.5	952	993	1,005
Wales (including Monmouthshire) Wales I (South East) Wales II (remainder)	14· 15· 13·	0 60.8	265·0 284·4 223·6	169·3 175·8 157·1	92·9 90·9 97·3	45·9 48·1 41·2	110·6 116·2 97·6	111·1 118·4 94·5	979 1,000 927	970 1,020 856	975 1,039 829

women aged 15–44, 9 per cent below the corresponding national rate. The effect of the differences in the basis of the rates is also demonstrated by the upward change in the rate for the North Midland Region and both parts of the East and West Ridings Region and the downward movement in the rates for the Greater London and Tyneside Conurbations when the number of marriages is expressed in terms of unmarried women aged 15–44.

The effect of further standardisation on the basis of the England and Wales age distribution within the 15-44 aggregate age-group is in general to shift the rates a little further in the same direction. The relative proportion of unmarried women in the 15-44 age-group is of more importance as a factor affecting the relative frequency of marriage than the age distribution within that group. Nevertheless, the differences in the proportion of unmarried women in the 15-44 age-group do not account entirely for the differences in the frequency of marriages between the areas in Table XVII. The marriage rates per 1,000 unmarried women in the North Midland Region and the West Midlands and West Yorkshire Conurbations are higher than for England and Wales for all the age-groups identified in Table XVII. Conversely, the rates are lower for all age-groups in the Eastern Region and the Merseyside Conurbation and Wales II.

DIVORCES

The numbers of dissolutions and annulments of marriage, petitions filed and decrees absolute granted, in 1960 and past years are shown in Table O in Part II and the dissolutions and annulments of 1960 are analysed further in Tables P1 to P6 of Part II. In 1960 there were 27,870 petitions for dissolution of marriage and 672 for annulment; 23,369 decrees for dissolution of marriage and 499 for annulment of marriage were made absolute. The number of petitions for dissolution is higher by 8 per cent than the number for 1959 but the number of decrees for dissolution is slightly below the 1959 number. The 23,868 decrees absolute for dissolution and annulment which were made absolute in 1960 represent a rate of 20 per 10,000 married couples.

Table XVIII summarises the figures of Table O for the last three decades. It relates the number of petitions filed and decrees made absolute to the number of married women aged 20–49. The use of this age range, which has recently accounted for 85 to 90 per cent of all divorces, as a denominator in place of the total number of all married couples affords a rough measure of standardisation. The rates from Table XVIII are shown in Diagram 2.

Table XVIII. Dissolutions and annulments of marriage: new petitions filed and decrees made absolute, 1931 to 1960, England and Wales

			Petitic	ons filed	Decrees ab	solute granted
	Year		Number	Per 1,000 married women aged 20–49	Number	Per 1,000 married women aged 20–49
1931– 1936 1937 1938 1939	35*		4,784 5,749 5,903 10,233 8,703	0·80 0·92 0·93 1·59 1·33	4,011 4,057 4,886 6,250 7,955	0·67 0·65 0·77 0·97 1·22
1940 1941 1942 1943 1944		::	7,086 8,305 12,003 15,385 18,969	1·05 1·21 1·72 2·19 2·70	7,755 6,368 7,618 10,012 12,312	1·15 0·93 1·09 1·43 1·75
1945 1946 1947 1948 1949		::	25,711 43,163 48,501 37,919 35,191	3·65 6·09 6·81 5·28 4·87	15,634 29,829 60,254 43,698 34,856	2·22 4·21 8·47 6·08 4·82
1950 1951 1952 1953 1954		:::::::::::::::::::::::::::::::::::::::	29,729 38,382 34,567 30,542 29,036	4·09 5·23 4·69 4·14 3·93	30,870 28,767 33,922 30,326 28,027	4·24 3·92 4·60 4·11 3·79
1955 1956 1957 1958 1959	::		28,314 28,426 27,858 26,239 26,327	3·83 3·83 3·74 3·52 3·52	26,816 26,265 23,785 22,654 24,286	3·62 3·54 3·19 3·04 3·25
1960			28,542	3.80	23,868	3.18

^{*} Annual average.

Dissolutions and annulments of marriage: new petitions filed and decrees made absolute per 1,000 married women aged 20-49, 1931 to 1960, England and Wales

The Matrimonial Causes Act of 1857 first made civil divorce available without a private Act of Parliament, but the rise in the number of divorces was not disproportionate to the increase in the population until the First World War after which there was a slow rise in the incidence of divorce until the extension of the permissible grounds for divorce under the Matrimonial Causes Act of 1937. The effect of this Act is shown by the rise in the rate of petitioning in 1938 and in decrees absolute granted in 1939 and 1940. The Second World War produced a sharp and sustained rise in petitioning and the granting of decrees absolute from 1942 until 1947. The fall in the rates of petitioning and the granting of decrees absolute from the peak of 1947 appears to have been partly checked by the enactment of the Legal Aid and Advice Act of 1949 which increased the financial assistance to litigants. The effect of this Act appears in the rise in petitions in 1951 (the Act came into operation on 2nd October 1950) and in decrees absolute granted in 1952. The disturbance occasioned by this Act seems to have worked itself out by 1954 and since then the rates for both petitions and decrees absolute granted have tended to fall slowly. The apparent rise in the number of decrees absolute granted in 1959 and the return in 1960 to the earlier trend may be partly due to the depression of the figures for 1958 by the operation of the Matrimonial Causes (Decree Absolute) General Order 1957. which applied to petitions filed on or after 30th April 1957 and which increased the normal interval between the granting of a decree nisi and the making of it absolute from six weeks to three months. The rise in petitions in 1960 appears to be linked with a change in the income limits for legal aid.

In 1960 the rate for decrees absolute granted per 1,000 married women aged 20-49 was 16 per cent lower than in 1954. This decline must be set in perspective against the great upheaval in the level of divorce rates during and after the

Second World War which is clearly shown up in Diagram 2. Allowing for the slight disturbance in 1958 and 1959 there is some indication that the rate of dissolution may be stabilising.

Over the period between 1954 and 1960 it appears that nine out of ten of the petitions filed for dissolution of marriage have resulted in a decree absolute being granted and seven or eight out of every ten petitions for the annulment of marriage have resulted in the granting of a decree absolute.

Parties to whom and grounds on which decrees granted

Table P1 in Part II shows figures of the decrees made absolute in 1960 classified by the party to whom the decree was granted and the grounds on which it was granted.

Among the 23,868 decrees absolute granted in 1960, 499 were for annulment of marriage of which 51 per cent were granted to the husband. The remainder were decrees for dissolution of marriage of which 45 per cent were granted to the husband. There were 82 cases where the decree of dissolution was granted to both parties.

Table XIX shows for 1960 the distribution of grounds on which decrees absolute were granted according to the party to whom the decree absolute was granted. The entries in this table amount to more than the total number of decrees because decrees were sometimes granted on more than one ground and sometimes to both parties. Section (ii) shows the distribution of each ground by the party to whom the decree was granted and Section (iii) shows the proportion of the decrees granted to each party, in which each ground was mentioned (either alone or in association with one or more other grounds).

Table XIX. Grounds on which decrees absolute of dissolution were granted, by party, 1960, England and Wales

Party to whom decr		inotition?			Ground	Act is short	of this a	he effect
absolute o dissolution granted		Adultery	Desertion	Cruelty	Unsound mind	Presumed dead	Others	Total
				(i) Numb	ers	tone I not	To town	300000
Husband Wife	::	6,407 5,712	4,221 4,506	245 3,582	96 69	13 33		10,982 13,931
		(ii) Dist	ribution pe	r 1,000 of	each groun	d, by party		
Husband Wife	::	529 471	484 516	64 936	582 418	283 717	1,000	441 559
Jacasqua a	(iii) I	Distribution	n per 1,000	total grou	nds for eac	h party, by	ground	
Husband Wife		584 411	384 323	22 257	9 5	1 2		1,000 1,000

The distribution by ground for each party for 1960 was similar to that for 1959. Adultery was the most frequent ground, accounting for 58 per cent of all grounds mentioned where the decree was granted to the husband and 41 per cent of all grounds where the decree was granted to the wife. Among decrees in which adultery was mentioned as a ground, 53 per cent were granted to the husband. Desertion is the second most frequent ground; 52 per cent of the decrees where desertion was a ground were granted to the wife. Cruelty is

the third common ground occurring mainly in decrees granted to the wife (94 per cent of decrees where cruelty was mentioned in 1960 were granted to the wife). These three main grounds accounted for 99 per cent of all the grounds mentioned in decrees absolute granted in 1960.

Present ages of parties

Dissolutions and annulments by age of husband and wife at the date of the decree absolute are shown in Table P2 of Part II with rates per 1,000 married men or women in that age-group. These rates for 1960 are reproduced in Table XX with comparable figures for years since 1950.

Table XX. Divorce rates per 1,000 married population by age at divorce, 1950 to 1960. England and Wales

Jing.			Ag	ge at date	of decree	absolute			
Year	All ages	Under 25	25-	30-	35-	40-	45-	50-	60 and over
	414.4.7	李 李 李		Hus	bands	6 6 6		11 20	
1950 1951 1952 1953 1954	2·8 2·6 3·0 2·7 2·5	2·5 2·0 2·1 2·2 2·1	5·7 4·8 5·3 4·8 4·3	5·3 5·0 5·7 5·0 4·4	4·4 4·2 4·8 4·3 4·1	3·3 3·2 3·8 3·4 3·2	2·3 2·3 2·8 2·6 2·3	1·3 1·3 1·7 1·4 1·4	0·3 0·3 0·4 0·4 0·3
1955 1956 1957 1958 1959	2·4 2·3 2·1 1·9 2·1	2·0 1·9 1·1 1·0 1·1	4·2 4·1 3·6 3·3 3·6	4·4 4·2 3·7 3·5 3·9	3·7 3·5 3·3 3·1 3·2	3·0 3·0 2·6 2·6 2·9	2·3 2·3 2·2 2·0 2·1	1·3 1·3 1·3 1·2 1·3	0·3 0·3 0·3 0·3 0·3
1960	2.0	1.0	3.6	3.8	3.2	2.7	2.0	1.2	0.3
				V	Vives				
1950 1951 1952 1953 1954	2·8 2·6 3·0 2·7 2·5	3·3 2·9 3·3 3·2 2·9	6·2 5·3 6·1 5·3 4·9	5·1 4·8 5·3 4·7 4·2	3·8 3·6 4·3 3·9 3·7	2·8 2·8 3·3 2·9 2·7	2·1 1·9 2·4 2·2 2·0	0·9 1·0 1·2 1·1 1·0	0·2 0·2 0·3 0·2 0·2
1955 1956 1957 1958 1959	2·3 2·3 2·0 1·9 2·1	$ \begin{array}{c} 3.0 \\ 2.9 \\ 2.0 \\ 2.0 \\ 2.1 \end{array} $	4·6 4·6 4·1 3·8 4·1	4·2 4·0 3·6 3·3 3·7	3·2 3·2 2·9 2·8 2·9	2·6 2·6 2·3 2·3 2·5	2·0 1·9 1·8 1·7 1·8	0·9 0·9 0·9 0·9 1·0	0·2 0·2 0·2 0·2 0·2
1960	2.0	2.2	4.2	3.5	2.9	2.2	1.7	0.9	0.2

The slightly younger age distribution of wives compared with husbands at the time of the divorce is reflected in the age rates shown in Table XX. This feature derives from the younger marriage age distribution of wives. Just over half the divorced husbands and wives were between 25 and 40 years old.

In comparing divorce rates by age since 1950 it appears that the fluctuations have been greater at the younger ages for both husbands and wives. In 1960 the divorce rate for husbands under 25 years of age was 40 per cent, and the

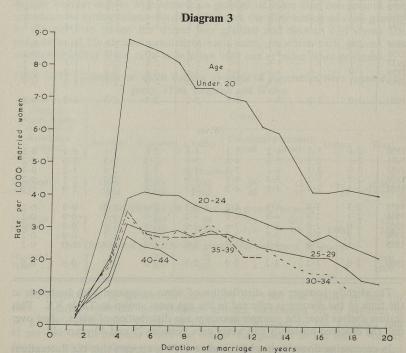
25-29 age-group nearly 63 per cent, of the corresponding rates in 1950, while the rates for husbands aged over 40 were only 12 per cent less than the corresponding rates in 1950 and a similar though less well marked gradient with age is visible in a similar comparison of age specific divorce rates of wives.

Duration of marriage and marriage age of wife

Table P4 in Part II shows the number of decrees absolute granted during 1960, classified by duration of marriage and the marriage age of the wife. Divorce rates per thousand married women are also shown where the wife was

Table XXI. Dissolutions and annulments of marriage made absolute, by duration of marriage and marriage age of wife. Rates per 1,000 married women, 1960, England and Wales

Age of wife at]	Duratio	on of i	marria	ge (con	npleted	d years)				
Under 20	0–2	3	4	5	6	7	8	9	10	11	12	13	14	15–19	20-24	24-29
Under 20 20 25 30 35 40-44	0·2 0·2 0·2 0·5 0·5 0·6	3·8 2·1 1·5 2·0 2·0 1·2	9·5 3·8 3·1 3·4 3·7 3·2	9·1 4·5 2·8 3·4 2·9 2·9	8·2 4·3 3·0 2·5 2·8 2·9	8·7 4·1 2·8 3·2 3·0 1·9	7·9 3·8 2·6 2·4 2·6	7·4 3·5 2·6 2·4 2·8	6.8 3.5 2.5 2.3 1.5	6·6 3·2 2·8 3·3 3·0	6·0 3·2 2·7 2·6 2·4	6·1 3·1 2·5 2·3	5·2 3·2 2·2 1·4	4·0 2·4 1·8	3·7 1·9	2.5



Rates of dissolution and annulment of marriage by duration of marriage and marriage age of wife, 1958-60, England and Wales

under the age of 50 at the date of the decree, these being the only ages where estimates of the numbers of married women are available. An extract from the rates section of Table P4 is reproduced in Table XXI. Diagram 3 illustrates corresponding rates, shown in Table XXI, for the 1958–60 period.

In general, age at marriage exerts a greater influence on divorce rates than does current age. The rates in Table XXI show a regular progression; they fall with increasing age at marriage and also with increasing duration of marriage (normally a petition for divorce may not be filed within three years of the date of the marriage). Table XXI shows that divorce rates tend to be highest when the marriage has been in existence between four and eleven years, and then to decline steadily with increasing marriage duration. Diagram 3 illustrates the effect of age at marriage. The increased risk of divorce in those marriages where the wife was under the age of 20 at marriage is clearly shown in this diagram. Less marked but still distinct is the differential between marriages where the wife was aged 20–24 at marriage and those where the wife was over the age of 25 at the time of the marriage. Above the age of 25 it appears that age at marriage has relatively little effect on the frequency of divorce, at least for the first ten or twelve years of the marriage.

The following statement shows the number of marriages which would at certain durations have been dissolved out of a thousand marriages contracted at each of the marriage age-groups shown if the rates in Table P4 were to be maintained indefinitely, ignoring the effect of mortality:

e of wife	erbilite ner	Duration in	years	
marriage	5	10	15	20
Managaran California	14	54	83	101
in Harris on	5	26 19	42 31	54 40
	7	21	32	_
	5 7 7	19 21 21	31 32 —	

This statement illustrates again the higher risk of divorce of those marriages where the wife was aged less than 20 at the time of the marriage. It should be noted, however, that to combine these probabilities of divorce in this way is not a reliable guide to the future long-term prospects. These probabilities are analogous to life table probabilities in referring to the experience in a single calendar year of different cohorts. When sufficient data have been accumulated it will be possible to compare the experience of different cohorts at equal marriage durations and this should produce a more satisfactory guide to long-term prospects.

Marriage age of husband and wife in combination

Marriages dissolved and annulled during 1960 are classified in Table P3 of Part II by the marriage ages of husband and wife in combination. The absence of a cross classification by year of marriage prevents the calculation of wholly satisfactory divorce rates per thousand related marriages. A full cross classification was published in 1957 and will be repeated at intervals.

The full cross classification made in 1957 and the tables published in the 1958 and 1959 Commentaries to illustrate the main factors, indicated a general tendency for the likelihood of divorce to be lowest when the two age-groups at marriage were the same and to increase on either side of this equality, rising higher at the younger age of the other party. This effect results from the interplay of the two factors: increasing likelihood of divorce with low age at marriage and with widening difference in marriage ages of the two parties.

Previous marital condition by marriage age

The decrees made absolute during 1960 are analysed in Table P6 according to the previous marital condition of both parties in combination, cross classified by the age of the wife at the time of the marriage. In 1957 this topic was discussed more fully with the aid of a further cross classification by year of marriage which permitted the calculation of satisfactory rates based on the number of original marriages. The general picture shown for 1960 differs little from that of 1957 which indicated that the likelihood of divorce tended to be lowest for first marriages, highest for marriages where the partners had been divorced previously; those marriages where the partners had been widowed occupied an intermediate position in the scale of risk.

Children of the marriage

Table P5 in Part II shows the dissolutions and annulments of marriage during 1960 according to the number of surviving children of the marriage. These children are the children alive at the date of the petition irrespective of their age and, as well as children of the dissolved marriage, may also include children legitimated by that marriage and any adopted children.

The total number of children involved in the 23,868 dissolutions and annulments in 1960 was 32,534, an average of $1\cdot4$ children per couple. The average number of children per couple fell steadily from $1\cdot7$ for those decrees where the wife was aged under 20 at marriage to $0\cdot9$ for the 35–39 age at marriage and $0\cdot5$ where the wife was aged 45 or over at marriage.

Among all marriages dissolved during 1960, 32 per cent were childless, 30 per cent had one child, 31 per cent had two or three children and seven per cent had four or more children. The proportion of childless marriages rose from a fifth where the wife was aged under 20 at marriage to over three fifths where the wife was 35 or over at the time of the marriage. The proportion of childless married women under 50 enumerated in the 1951 Census was 12 per cent in the under 20 age at marriage group, rising to 51 per cent for those married at age 35 and over. Allowing for the differences in the two sets of data, this suggests that divorce rates for childless couples may be about twice as high as the average for the marriage-age group concerned, taking those with children and the childless together.

WIDOWHOOD

Table SS of Part II shows the number of marriages ended by the death of one partner, classified by the ages of the deceased and surviving partners. This table, however, is deficient in respect of those deceased persons about whose marital condition no statement was supplied when the death was registered. The incidence of this occurrence as a percentage of all deaths in 1960, as well as in the two previous years, is set out below for men and women separately.

Table XXII. Percentage of deaths where marital condition was not stated, 1958 to 1960, England and Wales

dael	Men		A 4 3 - 43	1 ASSET	Women	
1958	1959	1960	Age at death	1958	1959	1960
3.6	3.5	3.4	15 and over	0.05	0.05	0.06
10·5	10·2	11·8	15-	0·20	0·75	0·74
37·2	34·1	36·7	20-	0·92	1·07	0·93
29·0	25·0	27·8	25-	0·54	0·43	0·70
21·9	19·7	19·7	30-	0·27	0·07	0·16
14·5	13·0	13·5	35-	0·26	0·24	0·18
10·8	9·4	10·1	40-	0·17	0·12	0·19
7·0	6·9	6·5	45-	0·03	0·09	0·10
5·3	4·9	4·8	50-	0·09	0·09	0·05
4·0	3·7	3·8	55-	0·02	0·05	0·12
3·5	3·1	3·1	60–	0·04	0·05	0·06
2·6	2·7	2·4	65–	0·06	0·06	0·07
2·2	2·5	2·1	70–	0·04	0·06	0·04
2·4	2·3	2·1	75 and over	0·04	0·03	0·04

The "not stated" percentage of female deaths is persistent but very low. In each age-group it is minute compared with the equivalent percentage of male deaths. The marital condition of deceased females could always be inferred from the former Rank or Profession (now Occupation) column of the death registers. For male deaths the "not stated" percentage is also persistent, though there has been a slow uneven decline from a level of 5 per cent in 1949. But, unlike the female equivalent, it is significant in every age-group which could include married men and is substantial at younger ages. The marital condition of deceased persons is normally obtained under the Population (Statistics) Act, 1938, as amended by the Population (Statistics) Act, 1960; but this Act does not apply in the case of deaths registered on a coroner's certificate after an inquest. This accounts for the general scale of omission of marital condition for males. Since the beginning of 1961 coroners have been asked to supply this information when it is available to them. Male deaths by accident, poisoning or violence (which normally involve an inquest) amounted to the following percentages of all deaths of males between twenty and forty years of age:

Age-group	1958	1959	1960
20–24	60	62	65
25–29	47	47	48
30–34	35	34	36
35–39	24	23	23

The necessity for a rateable distribution of the "not stated" means there must be some slight reservations about the numerators of the widowhood rates, which measure the number of married women (men) whose husbands (wives) died in the current year per 1,000 married women (men) in the specified age-group. It may lead to some bias in that such persons are likely to be single and to be concentrated in the younger ages; but the amount of such a bias will be small, particularly in relation to the "not stated" elements consequent on registration on a coroner's certificate. It is possible that the widowhood rates for women in Table XXIII below are slightly over estimated through such bias.

Table XXIII. Widowhood rates, 1956 to 1960, England and Wales

1956	1957	1958	1959	1960	Age of sur- viving spouse	1956	1957	1958	1959	1960
6.8		ths of w.		6.2	15 and over	14.0	Death per 1,000	ns of hus 0 married 14·1		12.9
0·5 0·6 0·8 1·2	0·4 0·6 0·8 1·3	0·4 0·6 0·7 1·2	0·4 0·6 0·7 1·1	0·3 0·5 0·6 1·2	15- 25- 30- 35-	0·8 1·1 1·6 2·7	0·9 1·1 1·5 2·6	0·8 1·0 1·5 2·6	0·8 1·0 1·5 2·6	0·6 0·8 1·3 2·4
1·8 2·9 4·5 7·4	1·9 2·9 4·6 7·5	1·8 2·8 4·4 7·1	1·7 2·7 4·3 7·2	1·7 2·7 4·3 6·8	40– 45– 50– 55–	4·5 7·7 13·1 22·0	4·6 7·9 13·2 21·9	4·6 7·7 13·0 21·5	4·5 7·7 13·0 21·4	4·2 7·2 12·3 19·8
11·8 19·0 30·4 59·2	11·5 18·3 29·4 56·0	11·4 18·3 29·4 57·3	11·2 18·2 28·7 56·5	11·2 17·6 28·1 56·4	60– 65– 70– 75 and over	33·3 49·8 72·3 111·9	33·0 49·9 69·8 105·9	33·1 49·9 72·0 110·7	32·3 49·0 70·9 109·0	31·4 47·7 66·7 106·1

At this distance from the 1951 Census there may also be some distortion in the estimated number and age distribution of married men and women in the population. The preliminary results of the 1961 Census reveal that the net addition to the population over the decade since the previous Census by inward and outward migration has been correctly estimated for persons of all ages and marital conditions; but this does not mean that the number, sex, age and marital condition of the two gross "ins" and "outs" figures of which this is the difference are necessarily confirmed. Only the final results of the 1961 Census can show up any change (other than the natural change) in the sex and marital condition structure of the population to confirm or modify the figures we have used.

This warns us against over emphasis on apparent changes in particular age-groups. But it does not affect the broad conclusions to be drawn from the data available. These are several. The chance that a married woman aged 25 will be a widow by 45 is still about twice that of her own death by that age. Perhaps even more outstanding and certainly of great social significance is the continuing assurance, whatever the bias in Table XXIII above, that the current level of mortality at ages under 45 is so low that widowhood is not seriously depleting the younger married population. Moreover, death is of comparatively low incidence among married women in the reproductive age-groups.

BIRTHS

The number of live births which occurred in England and Wales in 1960, 785,005, was the highest in any year since 1947; it was $4 \cdot 9$ per cent higher than in 1959 compared with increases of $2 \cdot 4$ per cent and $1 \cdot 1$ per cent between 1957 and 1958 and 1958 to 1959 respectively. The birth rate per 1,000 population rose to $17 \cdot 1$ which was the highest since 1948. The numbers of births since the 1851–60 period classified by legitimacy are shown in Table XXIV.

Table XXIV. Live births and birth rates by legitimacy, 1851 to 1960, England and Wales

Period	Total live births	Live birth rate per 1,000 population	All live births per 1,000 women aged 15–44	Legitimate live births	Legitimate live births per 1,000 married women aged 15-44	Illegitimate live births	Illegitimate live births per 1,000 unmarried women aged 15-44
1	2	3	4	5	6	7	8
1851–1860	6,471,650	34·1	144·9	6,048,479	281·0	423,171	18·3
1861–1870	7,500,096	35·2	151·0	7,043,090	287·3	457,006	18·2
1871–1880	8,588,782	35·4	153·6	8,161,584	295·5	427,198	15·1
1881–1890	8,890,238	32·4	138·7	8,471,116	274·6	419,122	12·6
1891–1900	9,155,153	29·9	122·7	8,773,351	250·3	381,802	9·6
1901–1910	9,298,209	27·2	109·0	8,927,791	221·6	370,418	8·2
1911–1920	8,096,222	21·8	87·7	7,706,457	173·5	389,765	8·1
1921–1930	7,129,070	18·3	73·9	6,818,295	143·6	310,775	6·3
1931–1935	3,022,864	15·0	61·7	2,891,469	115·2	131,395	5·5
1936–1940	3,041,652	14·7	60·9	2,913,834	107·3	127,818	5·6
1941–1945	3,346,343	15·9	69·3	3,116,516	105·4	229,827	11·4
1946–1950	3,904,666	18·0	80·9	3,690,413	122·5	214,253	11·7
1951–1955	3,377,098	15·2	72·5	3,216,521	105·0	160,577	10·1
1956	700,335	15·6	$77 \cdot 0$ $80 \cdot 0$ $82 \cdot 1$ $83 \cdot 0$ $86 \cdot 7$	666,801	108·2	33,534	11·4
1957	723,381	16·1		688,819	111·5	34,562	12·1
1958	740,715	16·4		704,541	113·9	36,174	12·8
1959	748,501	16·4		710,340	114·7	38,161	13·5
1960	785,005	17·1		742,298	119·2	42,707	15·1

The birth rate per 1,000 population does not permit a true appreciation of fertility trends, changes in which may be masked (in this index) by changes in sectors of the population other than that concerned with childbearing. Births may be more appropriately related to the number of women of childbearing age (conventionally taken as 15–44) instead of to the total population and, further, the legitimate and illegitimate births may be related to the married and unmarried women respectively in the 15–44 age range; such rates are shown in columns 4, 6 and 8 respectively of Table XXIV.

In 1960 the birth rate per 1,000 women aged 15–44 showed an increase of nearly four and a half per cent as compared with the previous year. Although the number of legitimate live births in 1960 was 27 per cent higher than the average annual number for the period 1936–40, there is also a larger proportion of women in the reproductive age range who are now married with the result that the legitimate birth rate in 1960 per 1,000 women aged 15–44 was 11 per cent above the rate for 1936–40. Conversely, while the illegitimate birth rate in 1960 was 2.7 times the rate in 1936–40 the number of illegitimate births was only 1.7 times as many, owing to the smaller number of unmarried women now in this age-group.

Incomplete statement at birth registration

The birth statistics now under consideration are obtained by the analysis of the information given at birth registration. These annual statistics are slightly incomplete due to an occasional failure to obtain a record of the mother's age, duration of marriage, or number of previous children. The proportion of "not stated" cases of various types is shown in Table QQ for women married once only. For all types of information combined this proportion amounted to one half per cent in 1960. As no severe bias is expected in this small number of cases they have been distributed proportionately among the "stated" in Tables AA, HH, II, LL, and MM. It is considered that most users will find this form of presentation more convenient.

Birth occurrences and registration time lag

The statutory period allowed for registration of either a live birth or a stillbirth is 42 days and there is generally an appreciable time lag between the occurrence of a birth and its registration. In the past, the time lag was found to decrease markedly after the introduction of an incentive to register earlier, for example, by the dependence of the issue of Family Allowances upon birth registration. Conversely, registration has become more tardy whenever the incentives have been removed or have become less compelling. In 1960 the average time lag between the occurrence and the registration of a birth was nearly fourteen days.

The importance of this time lag from the statistical aspect is its influence on the difference between the births registered in a period and the number occurring in the same period. Occurrences are usually the more appropriate statistics for the measurement of fertility, but figures for registrations are available sooner. The difference between the two is influenced by the time lag in two ways. A difference will occur, even though the time lag is constant, if birth incidence is changing; and also, even though the birth incidence be constant, if the time lag is changing. In practice both factors operate. The combined effect of these factors may be measured by the ratio of occurrences to registrations, which in 1960 was 1.0036.

Tabulation basis

Fertility tabulations may be made on the basis of either live births or maternities, and which is more convenient depends upon the use to which the tabulations are put. The tables in Part II distinguish so many characteristics that it is neither practical nor economic to provide completely parallel classifications of births and maternities. Full analyses by legitimacy and mother's age are given for both live births and maternities (Tables AA to FF and TT), but the legitimate fertility tabulations by duration of marriage or number of previous children are restricted to maternities (Tables HH, II, KK, LL, MM and QQ). The legitimate fertility rates by age of mother and year and duration of marriage (Table OO) were in terms of maternities until 1955 but since 1956 they have been converted to a live birth basis by ratios of the kind shown in Table XXV. Table PP (mean family size by year of marriage) has always related to live births.

Maternities are slightly greater in number than live births as stillbirths included in the former exceed multiple births excluded. The excess is small and the maternity statistics can be converted to live birth figures with enough accuracy for most purposes by means of the appropriate ratios which are shown for 1960 in Table XXV.

Table XXV. Ratio of legitimate live births to legitimate maternities by age of mother at maternity, 1960, England and Wales

ty concess		Age of	mother at ma	ternity		av any
All ages	Under 20	20-	25-	30-	35-	40 and over
0.992	0.990	0.993	0.994	0.992	0.988	0.970

The tables distinguishing duration of marriage and numbers of previous children (Tables HH to QQ) are confined to women married once only. Comparable statistics for women married more than once and for all married women, both classified by duration of *current* marriage, relating to 1952, were published in the 1955 Commentary where ratios comparing the three sets of fertility rates were also given (pages 30–33).

Illegitimate births and pre-marital conceptions

Among the 791,584 maternities which occurred in 1960, 5·5 per cent (43,281) were illegitimate. Tables B and C in Part II and Table XXIV contain serial records of illegitimate births since 1851. Numbers of illegitimate maternities since 1938 are shown in column 2 of Table XXVI and column 3 shows the numbers of pre-maritally conceived legitimate maternities. The number of pre-maritally conceived legitimate maternities has been taken as approximately equivalent to those at marriage durations under 9 months (8½ months before 1952). The combined proportion of extra-maritally conceived maternities is shown in column 5.

Table XXVI. Illegitimate maternities and pre-maritally conceived legitimate maternities, 1938 to 1960, England and Wales

Vear	26,569 -1944†	Pre-maritally conceived		nities conceived naritally*	Percentage of extra-mari- tally conceived maternities
nomow and he	maternities	maternities* Percenta		Percentage of all maternities	legitimated by marriage of parents before birth of child
1	2	3	4	5	6
1939	26,569 39,542 49,466 35,816 33,444	64,530 60,346 43,146 52,557 54,188 50,477 50,740 50,266 50,901 50,638 54,895 56,203 56,581 57,638 60,972	91,970 86,915 82,688 102,023 90,004 83,921 83,828 83,349 83,029 82,287 89,008 91,301 93,368 96,430 104,253	14·4 13·8 12·4 13·0 12·8 12·3 12·3 12·1 12·2 12·2 12·5 12·5 12·8 13·2	70·2 69·4 52·2 51·5 60·2 60·1 60·5 60·3 61·3 61·5 61·7 61·6 60·6 59·8 58·5

^{*} From 1952 onwards the figures relate to women married *once only*. † Annual averages.

Legitimate maternities at these short durations and illegitimate maternities can usefully be considered together as they both relate to mothers who were unmarried at the time of conception. During and immediately after the Second World War the numbers of illegitimate maternities and pre-maritally conceived legitimate maternities tended to move in opposite directions, leaving the total number of extra-maritally conceived maternities relatively stable. This feature has been less well marked in recent years but is still true for the period since 1938 taken as a whole.

In Table XXVII the extra-maritally conceived maternities have been related to the population at risk of producing such maternities. This is the average number of unmarried women between the beginning of April in the stated year and the same date of the previous year. As an approximation, the number of unmarried women at the end of September of the previous year has been estimated and used as the exposed to risk. These women have, however, been classified by their age at maternity in the usual way.

Table XXVII. Extra-maritally conceived maternities per 1,000 unmarried women at risk (see text), 1938 and 1952 to 1960, England and Wales

Age of mother	1938	1952-54 average	1955	1956	1957	1958	1959	1960
15 20 25 30 35	11·8 32·6 24·5 15·1 10·4 4·3	15·5 42·5 37·3 30·7 18·0 6·1	16·5 44·0 39·5 30·8 18·6 6·5	19·0 48·6 42·2 34·3 20·4 6·8	20·2 50·3 45·4 36·8 21·9 7·1	21·2 52·2 47·4 37·9 22·0 7·3	21·7 54·2 50·5 40·8 22·1 7·9	24·0 58·0 59·2 46·0 24·2 9·6
15–44	18.6	25.3	26.1	28.9	30.3	31.4	32.5	35.5
Ratio to 1938 Crude	1.00	1.36	1.40	1.55	1.63	1.69	1.75	1.91
Standardised by age	1.00	1.41	1.47	1.63	1.71	1.78	1.84	2.03

The rates for all extra-maritally conceived maternities are highest for women in their twenties. The separate age rates for illegitimate maternities and pre-maritally conceived legitimate maternities in 1960 are shown in the following statement:

Group of	Age at maternity								
maternities	Under 20	20-	25-	30-	35-	40-44			
Illegitimate	6.79	18.84	33.62	33.52	18.60	7.59			
Pre-maritally conceived legitimate	17.17	38.64	24.64	11.85	5.26	1.92			

The rates for the pre-maritally conceived legitimate maternities rise rapidly to a peak in the 20–24 age-group and then decline steadily with age. The rates for illegitimate births rise and fall more gradually with a lower maximum between

25 and 34; in the 40-44 age-group the rate is nearly four times that of the pre-maritally conceived legitimate maternities.

In recent years there has been a noticeable increase in the number of illegitimate and pre-maritally conceived legitimate maternities and also in the relevant rates. Table XXVIII below shows the proportionate increase in the legitimate and the extra-maritally conceived maternity rates by age of mother at maternity.

Table XXVIII. Ratio of legitimate and extra-maritally conceived maternity rates to those of 1952 taken as 1,000, 1952 to 1960, England and Wales

Age a materni		1952	1953	1954	1955	1956	1957	1958	1959	1960
All ages u	nder	1,000	1,020	1,006	Legitin	nate mat		1.002	1.100	
	-	1,000	1,020	1,000	990	1,039	1,070	1,092	1,100	1,142
Under 20 20-24 25-29 30-34 35-39 40-44		1,000 1,000 1,000 1,000 1,000 1,000	1,023 1,022 1,027 999 994 986	991 1,010 1,018 948 992 977	946 1,000 1,026 934 981 925	992 1,036 1,082 966 1,004 917	1,001 1,056 1,117 993 1,018 900	1,026 1,073 1,135 1,008 996 874	1,026 1,073 1,140 1,013 955 890	1,091 1,085 1,174 1,067 995 983
				Extra	maritalle	, concoir	ed mater	:4:		
All ages u	nder			LXII a-	marnan	Concerv	ed mater	nities		
45		1,000	1,016	1,032	1,048	1,161	1,217	1,261	1,305	1,414
Under 20 20-24 25-29 30-34 35-39 40-44		1,000 1,000 1,000 1,000 1,000 1,000	1,033 1,029 1,008 1,020 972 1,000	1,067 1,073 992 997 1,022 1,016	1,100 1,068 1,059 1,007 1,028 1,066	1,267 1,180 1,131 1,121 1,127 1,115	1,347 1,221 1,217 1,203 1,210 1,164	1,413 1,267 1,271 1,239 1,215 1,197	1,447 1,316 1,354 1,333 1,221 1,295	1,600 1,396 1,563 1,484 1,320 1,557

This table shows that while the legitimate maternity rate for all ages under 45 was 14 per cent higher in 1960 than in 1952 the rate for extra-maritally conceived maternities under 45 was 41 per cent higher. (Of the two elements making up the extra-maritally conceived group the illegitimate maternity rate has risen by 50 per cent between 1952 and 1960 and the rate for pre-maritally conceived births has risen by 37 per cent in the same period.) The extra-maritally conceived maternity rate tended to rise slowly between 1952 and 1955 after which the rise became more rapid up to 1959 and the rate for 1960 exhibits a sharp rise above the 1959 rate. This pattern of change in the extra-maritally conceived maternity rate is similar, though of much greater magnitude, to that for legitimate maternities. Among the age-groups identified in Table XXVIII the increase has been greatest among mothers aged under 20 and 25-29, but it is by no means limited to these age-groups; there have been substantial increases in the extra-maritally conceived maternity rates among mothers aged 35 or over in contrast to the fall in the legitimate maternity rates for these ages between 1952 and 1960.

If the incidence of pre-marital conceptions is measured conventionally by the legitimate maternity rate for duration under 9 months, Table KK shows that the incidence is highest at ages under 20 where the maternity rate for the first 9 months is as high as for the remaining quarter of the first year. This rate then falls steeply to the 20–24 age-group and more slowly thereafter.

Legitimate births and fertility

Age of mother and duration of marriage

The total number of legitimate births and the corresponding rates per 1,000 married women aged 15–44 irrespective of age of mother and duration of marriage were shown in Table XXIV. As fertility declines with advancing age of mother and lengthening duration of marriage, these factors must now be taken into account.

Among the legitimate maternities which occurred in England and Wales in 1960, 6 per cent were to mothers aged under 20, 62 per cent were to mothers aged between 20 and 30, nearly 30 per cent to mothers aged between 30 and 40 and nearly 3 per cent to mothers aged 40 or over. The distribution in five year age-groups is shown in the following statement:

190.1 300.1 300.1	Age of mother at maternity								
Legitimate maternities in each age-group per	All	Under 20	20–24	25–29	30–34	35–39	40-44	45 and over	
1,000 legitimate maternities at all ages	1,000	57	305	315	195	100	26	2	

A similar distribution of legitimate maternities in England and Wales during 1960 by duration of marriage shows that 56 per cent of all legitimate maternities in 1960 were to mothers whose marriage had lasted less than 5 years (over 13 per cent of legitimate maternities were to mothers who had been married for less than a year) and 84 per cent to mothers married for less than 10 years.

	alat	Marriage duration in completed years									
Legitimate maternities at each duration per 1,000 legitimate	All dura- tions	0	1	2	3	4	5–9	10–14	15–19	20 and over	
maternities at all durations	1,000	135	119	108	103	92	280	116	37	10	

In Table II the legitimate maternities to women married once only are classified by both age of mother at maternity and the duration of her marriage. Using the mean numbers exposed to risk by current age and marriage duration published in Table JJ, corresponding rates by current age and duration of marriage have been computed and published in Table KK. The rates shown in Table KK are summarised for recent years in Table XXIX which shows the typical pattern of decline with increasing age, as well as with each year of duration after the first. The apparent exception at the longest durations within some lines, mainly for the age-group under 20, is due to the fact that towards the right-hand edge of the table the group becomes confined to fewer single years of age, corresponding to the very youngest marriage ages. In this part of a detailed table by single years of age, fertility rates change more rapidly with marriage age than with duration, and the number of women at the individual ages making up the group increases very quickly with age.

Table XXIX. Legitimate maternity rates for women married once only by age and marriage duration, 1952 to 1960, England and Wales*

Age at maternity	Year	Marriage duration (completed years)										
		All dura- tions	0	1	2	3	4	5–9	10–14	15–19	20-24	25 and ove
All ages under 50	1952–55 1956 1957 1958 1959 1960	·088 ·092 ·094 ·096 ·097 ·101	·280 ·292 ·300 ·308 ·312 ·327	·260 ·267 ·274 ·279 ·281 ·288	·222 ·230 ·237 ·245 ·252 ·258	·203 ·215 ·220 ·227 ·229 ·243	·180 ·192 ·201 ·207 ·207 ·217	·115 ·122 ·127 ·131 ·132 ·138	·048 ·051 ·053 ·054 ·054 ·057	·019 ·020 ·021 ·021 ·021 ·022	·006 ·006 ·006 ·005 ·006 ·006	·00 ·00 ·00 ·00
Under 20 {	1952–55 1956 1957 1958 1959 1960	·415 ·406 ·408 ·415 ·416 ·436	·460 ·454 ·453 ·465 ·468 ·497	·323 ·314 ·329 ·332 ·330 ·333	·339 ·315 ·317 ·317 ·331 ·338	·354 ·333 ·356 ·324 ·342 ·370						
20–24 {	1952–55 1956 1957 1958 1959 1960	· 253 · 259 · 263 · 267 · 267 · 272	·272 ·277 ·281 ·286 ·288 ·296	·278 ·283 ·288 ·291 ·292 ·297	·246 ·250 ·254 ·263 ·269 ·270	·237 ·245 ·248 ·250 ·251 ·262	·222 ·229 ·234 ·239 ·232 ·240	·205 ·217 ·218 ·218 ·213 ·214				
25–29 {	1952–55 1956 1957 1958 1959 1960	·171 ·180 ·186 ·189 ·188 ·196	·237 ·247 ·265 ·270 ·270 ·287	·246 ·255 ·259 ·266 ·268 ·276	·216 ·226 ·235 ·239 ·248 ·258	·203 ·216 ·222 ·229 ·230 ·246	·187 ·199 ·211 ·215 ·217 ·227	·141 ·152 ·157 ·160 ·159 ·164	·111 ·113 ·118 ·118 ·121 ·130			
80-34 {	1952–55 1956 1957 1958 1959 1960	·099 ·100 ·103 ·104 ·105 ·110	·230 ·247 ·257 ·253 ·256 ·276	·238 ·245 ·255 ·260 ·268 ·279	·199 ·210 ·218 ·224 ·228 ·240	·181 ·190 ·192 ·209 ·209 ·225	·164 ·173 ·180 ·186 ·189 ·198	·107 ·110 ·114 ·118 ·119 ·126	·068 ·066 ·069 ·071 ·072 ·076	·069 ·063 ·062 ·060 ·061 ·061		
55–39 {	1952–55 1956 1957 1958 1959 1960	· 049 · 050 · 051 · 050 · 049 · 050	·167 ·175 ·184 ·179 ·188 ·198	· 183 · 195 · 200 · 193 · 207 · 210	·148 ·152 ·158 ·165 ·170 ·178	·133 ·144 ·144 ·145 ·150 ·151	·124 ·132 ·130 ·130 ·135 ·138	·079 ·082 ·085 ·084 ·084 ·087	·042 ·045 ·046 ·046 ·046 ·048	·035 ·035 ·035 ·035 ·033 ·033	·041 ·035 ·036 ·035 ·033 ·035	
0–44 {	1952–55 1956 1957 1958 1959 1960	·015 ·014 ·014 ·013 ·013 ·015	·054 ·054 ·067 ·054 ·067 ·076	·065 ·075 ·068 ·071 ·074 ·081	· 053 · 059 · 056 · 058 · 059 · 069	· 049 · 049 · 048 · 049 · 057 · 057	· 042 · 042 · 044 · 042 · 046 · 056	·029 ·030 ·031 ·030 ·031 ·035	·017 ·017 ·018 ·018 ·017 ·020	·012 ·012 ·012 ·012 ·011 ·013	·011 ·010 ·010 ·009 ·009 ·011	·01 ·00 ·00 ·00 ·00
5–49 {	1952–55 1956 1957 1958 1959 1960	·001 ·001 ·001 ·001 ·001	·004 ·003 ·001 ·005 ·004 ·002	·003 ·004 ·004 ·003 ·004 ·004	·004 ·005 ·003 ·004 ·006 ·001	·003 ·003 ·003 ·005 ·005 ·004	·003 ·002 ·002 ·003 ·004 ·004	·002 ·002 ·002 ·002 ·003 ·002	·002 ·001 ·002 ·002 ·002 ·002	·001 ·001 ·001 ·001 ·001 ·001	·001 ·001 ·001 ·001 ·001	·00 ·00 ·00 ·00

^{*} In calculating these rates the few maternities to women whose stated age and marriage duration implied an age at marriage below the legal minimum of 16 have been excluded.

Table XXIX shows that between 1959 and 1960 there was a general rise in maternity rates for all ages under 45. For all ages combined the increase varied from 4 to just over 6 per cent for the duration groups specified in Table XXIX apart from durations 1 and 2 where there was a rise of about two and a half per cent. For all durations combined the age-groups under 20 and between 25 and 34 showed increases of between four and five per cent while the 20–24 and 35–39 age at maternity groups showed smaller increases of about two per cent. The 40–44 age-group showed much larger proportional increases (15 per cent for all durations combined) but this group makes a contribution of only three per cent to the total number of maternities. The rates for women aged 45 and over are subject to relatively large random fluctuations which conceal any change in fertility.

Age at marriage

An alternative classification of legitimate maternities by age at marriage and year of marriage is given in Table MM (which also shows the number of previous liveborn children); the mean numbers exposed to risk are shown in Table NN and the corresponding rates have been computed and published in Table OO having been converted from maternity rates to live birth or fertility rates. Tables NN and OO relate to the integral duration intervals which ended in 1959–60; e.g. duration 2 completed years covers the interval from the second wedding anniversary (falling in 1959) to the third anniversary (falling in 1960).

Table XXX which is an extract from Tables 2(a)-2(g) in Appendix A (pages 270 to 275) shows fertility rates at selected integral durations by age at marriage. As stated above, the use of integral durations means that the relevant births are spread over two calendar years. Table XXX shows rates for selected periods of maternity from 1947-48 to 1959-60.

Table XXX. Fertility rates by age at marriage for selected durations only.

Women married once only, for selected periods, 1947-48 to 1959-60,

England and Wales

					Dur	ation of	f marria	ge (com	pleted y	ears)		
Age at marria	age	Period	0	1	2	3	4	5	10	15	20	25
All ages under 45	{	1947–48 1952–53 1957–58 1958–59 1959–60	·301 ·273 ·298 ·320 ·333	·330 ·266 ·277 ·279 ·285	·258 ·224 ·237 ·251 ·252	·222 ·201 ·222 ·226 ·234	·203 ·178 ·204 ·208 ·207	·186 ·153 ·177 ·180 ·184	·094 ·067 ·072 ·073 ·074	·045 ·026 ·030 ·030 ·030	·015 ·009 ·008 ·008 ·009	-001 -001 -001 -000
Under 20	{	1947–48 1952–53 1957–58 1958–59 1959–60	·429 ·437 ·420 ·433 ·439	·386 ·318 ·326 ·327 ·331	·305 ·281 ·284 ·295 ·297	·269 ·258 ·263 ·265 ·267	·246 ·221 ·251 ·250 ·235	·237 ·193 ·219 ·222 ·221	·154 ·107 ·116 ·117 ·116	·107 ·069 ·060 ·055 ·057	·051 ·038 ·034 ·032 ·032	·009 ·007 ·006 ·005
20–24	{	1947–48 1952–53 1957–58 1958–59 1959–60	·311 ·253 ·268 ·275 ·313	·348 ·267 ·270 ·272 ·276	·269 ·224 ·237 ·248 ·246	·234 ·206 ·225 ·229 ·237	·217 ·185 ·209 ·214 ·216	·199 ·162 ·186 ·189 ·192	·109 ·074 ·078 ·078 ·078 ·080	·054 ·032 ·033 ·034 ·033	·018 ·011 ·008 ·008 ·008	·001 ·001 ·000 ·000
25–29	{	1947–48 1952–53 1957–58 1958–59 1959–60	·272 ·227 ·265 ·275 ·277	·317 ·257 ·269 ·272 ·280	·245 ·216 ·224 ·247 ·251	·205 ·185 ·215 ·222 ·231	·187 ·173 ·193 ·200 ·196	·164 ·155 ·162 ·165 ·172	·081 ·049 ·057 ·057 ·056	·025 ·012 ·012 ·012 ·012 ·012	·004 ·001 ·001 ·001 ·001	
30–34	{	1947–48 1952–53 1957–58 1958–59 1959–60	·191 ·217 ·243 ·247 ·264	·277 ·240 ·247 ·250 ·257	·205 ·190 ·198 ·212 ·206	·170 ·160 ·164 ·162 ·177	·143 ·130 ·141 ·142 ·138	·121 ·101 ·114 ·107 ·112	·029 ·016 ·019 ·020 ·021	·006 ·002 ·001 ·001 ·001	·000 ·000	
35–39	{	1947–48 1952–53 1957–58 1958–59 1959–60	·125 ·132 ·167 ·175 ·181	·183 ·155 ·167 ·165 ·179	·122 ·110 ·106 ·120 ·128	·086 ·079 ·076 ·083 ·081	·062 ·050 ·048 ·052 ·060	·043 ·034 ·035 ·036 ·036	·004 ·002 ·001 ·001 ·001			
40–44	{	1947–48 1952–53 1957–58 1958–59 1959–60	·038 ·039 ·041 ·055 ·053	·051 ·033 ·039 ·035 ·045	·030 ·025 ·024 ·021 ·020	·016 ·007 ·010 ·013 ·011	·008 ·006 ·004 ·008 ·006	·005 ·003 ·002 ·002 ·002				

This table demonstrates differential fertility by age at marriage. Women who marry under the age of 20 have fertility rates which are markedly higher than those for all marriage ages combined at all durations; there is a difference of nearly one fifth up to duration 5 and this difference tends to increase at longer durations where increasing age at maternity must tend to reduce the fertility of

the older age-at-marriage groups. The 20–24 age-at-marriage group differs little from the average for all ages at marriage combined, as is to be expected since this group accounts for over half the first marriages in most years; nevertheless, there is a tendency for their fertility rates to be a little lower than average at short durations and a little higher than average at the longer durations. With the older age-at-marriage groups, age at maternity comes to play an increasing part in influencing fertility rates which consequently decrease rapidly with increasing duration. Limiting this comparison to durations up to 5, where the age at maternity effect will have less influence, the 25–29 age-at-marriage group fertility rates at these durations are only about 6 per cent below average, the 30–34 age-at-marriage group rates are just over three quarters of the average and the 35–39 group rates are just over 44 per cent of the average for all age at marriage under 45 combined.

The general rise in fertility rates between 1958–59 and 1959–60 has affected the under 20 age-at-marriage group less than for all age-at-marriage groups combined, while the effect on those married between 25 and 40 has been that their fertility rates have risen more than the average.

Among the durations identified in Table XXX the rates for durations 10 and over show relatively little change while the rates for the shorter durations have risen for most age-at-marriage groups. The rates for the first year of marriage (duration 0) have shown a marked rise, especially for those married at ages 20–24 and the increases between 1958–59 and 1959–60 have also tended to be high for durations 1, 3 and 5 while durations 2 and 4 show relatively little change.

Cohort analysis

A proper appreciation of fertility trends needs more than the examination of fertility rates by year of maternity. It is necessary to take women married in a particular period, and to follow them through their reproductive lives. Such a group is generally called a *cohort*, and the study of fertility records in this form, *cohort analysis*. Cohort analysis can help to avoid the misleading impression which may be made by the births of any one period such as a year when either family size or the timing of births is changing.

Tables of mean family sizes and fertility rates for women married once only have been computed for each marriage cohort since 1920 and appear in Appendix A (pages 264 to 269). The mean family size tables (Tables 1(a) to 1(g)) show the average number of liveborn children after each single year of marriage duration separately for each age-at-marriage group. The set of fertility rate tables (Tables 2(a) to 2(g)) show the average annual increments by which the mean family size has been built up. The two sets of tables have been produced each year by using the lines of Tables OO and PP as diagonal additions to data produced by linking data from the 1946 Sample Family Census of the Royal Commission on Population, the 1951 Census of England and Wales and the annual vital registration records.*

^{*} For the technical problems involved and the methods used see *Census 1951*, *England and Wales: Fertility Report*, Chapter IV, Appendix I. H.M.S.O., 1959, price £4 10s. 0d. net.

Table XXXI. Mean family size of selected cohorts since 1929 by age at, and duration of, marriage, England and Wales

	10129			D	uration	of mar	riage (ex	act year	rs)		
Age at marriage	Cohort	1	2	3	4	5	6	11	16	21	26
All ages under 45	1929 1934 1939 1944 1949 1954 1959	·37 ·34 ·25 ·29 ·33 ·32 ·37	·63 ·59 ·47 ·58 ·62 ·58	·82 ·77 ·65 ·83 ·84 ·81	·98 ·94 ·82 1·05 1·04 1·03	1·13 1·08 ·99 1·24 1·22 1·24	1·26 1·21 1·14 1·39 1·38 1·42	1 · 72 1 · 67 1 · 74 1 · 85 1 · 89	1.96 1.95 1.95 2.06	2·06 2·02 2·03 — —	2·08 2·03 — — —
Under 20 $\left\{ ight.$	1929 1934 1939 1944 1949 1954 1959	·65 ·64 ·43 ·38 ·48 ·47 ·47	·95 ·94 ·70 ·68 ·84 ·78	1·20 1·18 ·93 ·96 1·12 1·06	1·41 1·38 1·12 1·23 1·38 1·32	1·60 1·58 1·32 1·46 1·60 1·57	1·77 1·76 1·51 1·65 1·81 1·79	2·50 2·48 2·35 2·28 2·52	3·00 3·09 2·77 2·63	3·33 3·32 2·99 —	3·42 3·39 — — —
20–24 {	1929 1934 1939 1944 1949 1954 1959	·41 ·37 ·24 ·28 ·32 ·28 ·35	·70 ·63 ·47 ·58 ·62 ·54	·90 ·84 ·66 ·85 ·84 ·76	1·08 1·02 ·84 1·08 1·04 ·99	1·24 1·18 1·03 1·28 1·23 1·20	1·39 1·31 1·20 1·44 1·40 1·40	1·92 1·85 1·87 1·94 1·94	2·22 2·19 2·12 2·17 —	2·36 2·29 2·20 — —	2·37 2·30 — — —
25-29 {	1929 1934 1939 1944 1949 1954 1959	·26 ·25 ·20 ·26 ·29 ·28 ·33	·50 ·48 ·40 ·55 ·56 ·54	·68 ·65 ·57 ·79 ·76 ·76	·83 ·80 ·74 1·00 ·95 ·98	.96 .94 .90 1.17 1.12 1.18	1·09 1·06 1·04 1·31 1·26 1·35	1·46 1·45 1·57 1·71 1·70	1·61 1·62 1·71 1·84	1·65 1·65 1·73 — —	1·65 1·65 ————————————————————————————————————
30–34 {	1929 1934 1939 1944 1949 1954 1959	·28 ·25 ·23 ·26 ·26 ·30 ·34	·49 ·44 ·41 ·51 ·50 ·53	·63 ·58 ·55 ·72 ·68 ·72	·75 ·71 ·67 ·89 ·84 ·88	·84 ·80 ·80 1·03 ·97 1·02	·92 ·88 ·91 1·13 1·08 1·14	1·13 1·08 1·20 1·34 1·31	1·16 1·14 1·23 1·37	1·16 1·14 1·23 — —	1·16 1·14 — — —
35–39 {	1929 1934 1939 1944 1949 1954 1959	·28 ·26 ·19 ·20 ·21 ·23 ·27	·40 ·40 ·31 ·37 ·37 ·40	·50 ·49 ·38 ·49 ·48 ·50	· 54 · 55 · 45 · 58 · 55 · 58	·58 ·59 ·50 ·63 ·61 ·63	·60 ·62 ·52 ·67 ·64 ·67	·66 ·65 ·60 ·70 ·68	·66 ·66 ·60 ·70	ШШШ	
40-44	1929 1934 1939 1944 1949 1954 1959	·18 ·28 ·10 ·13 ·14 ·15 ·16	·20 ·32 ·13 ·18 ·18 ·19	·21 ·34 ·14 ·21 ·20 ·22	·22 ·35 ·15 ·22 ·21 ·22	·22 ·36 ·15 ·23 ·22 ·23	·22 ·36 ·15 ·23 ·22 ·23	·24 ·36 ·16 ·23 ·22		DEFINE	HHIII

Table XXXI shows the achieved mean family size at selected durations for selected cohorts; these figures have been taken from the full series in Tables 1(a)–1(g) of Appendix A in order to illustrate the main features of this series of tables. The basic characteristic of these tables is a decline in family size up to the period of the Second World War and a slight tendency to rise since then. In Table XXXI the slight fall between the cohorts of 1929 and 1934 is typical of the pre-war period. The 1939 cohort experience illustrates the effect of the war at the short durations in creating a relative deficiency which was more than made up at higher durations so that its family size at higher durations is slightly higher than for the earlier cohorts identified. The 1944 cohort passed through the period of buoyant fertility after the Second World War but there are signs that the later cohorts may be moving towards even higher family sizes.

There are some noticeable variations from the pattern shown by the figures for all marriage ages under 45 combined when the separate age-at-marriage groups are considered. For example, for those married under the age of 20 the families of the wartime cohorts (1939 and 1944) lag behind those of pre-war cohorts at the short durations but unlike the combined group for all ages at marriage, this deficiency has not been made up at the higher durations; the family size of the 1949 cohort was back to the pre-war level for those married under 20, but so far the 1954 cohort appears to be lagging behind the 1949 cohort in family size although the difference seems to be decreasing.

In general the 20–24 age-at-marriage group follows the pattern for all marriage ages combined, but among those married between the ages of 25 and 34 the postwar cohorts in Table XXXI have consistently higher family sizes than the pre-war cohorts (including 1939). The effect of the Second World War is most marked in the older age-at-marriage groups where because of higher age at maternity those affected by the war at short durations (the 1939 cohort in Table XXXI) had less opportunity to make up at longer durations for the low fertility which was general during the war.

The cumulative effect of the recent rise in fertility rates at short durations is illustrated by Table XXXII which shows for all marriage ages combined the ratio of the mean family sizes achieved by recent cohorts at short durations to that reached by the 1949 cohort at the same duration.

Table XXXII. Ratio of mean family size of marriage cohorts 1949–59 at short duration to those of 1949 cohort taken as 1,000, all marriage ages under 45, England and Wales

	00-1			Ma	rriage d	uration	(exact	years)			
Cohort	1	2	3	4	5	6	7	8	9	10	11
1949 1951 1953 1955 1956 1957 1958	928 949 982 1,012 1,018	1,000 921 933 957 984 990 1,018	1,000 943 965 996 1,033 1,039	1,000 956 987 1,021 1,059	1,000 966 1,007 1,039	1,000 978 1,022 — — —	1,000 988 1,034 — — —	1,000 996 — — — —	1,000 999 — — — — —	1,000	1,000

The effect of the higher short duration fertility rates is illustrated first by the manner in which the 1953 and 1955 cohorts, which started off with lower family sizes than the 1949 cohort, have by the latest durations shown in Table XXXII more than made up their deficiency, and second by the high family sizes at the short durations for the most recent cohorts.

Ultimate family size

For the early cohorts shown in Tables 1(a)—1(g) of Appendix A the ultimate family size is known but the women married since 1930 have not yet all completed their childbearing and to estimate their mean ultimate family size projections have been made from 1960. The first projection shown in Table XXXIII assumes that future fertility rates by marriage age and duration will be equal

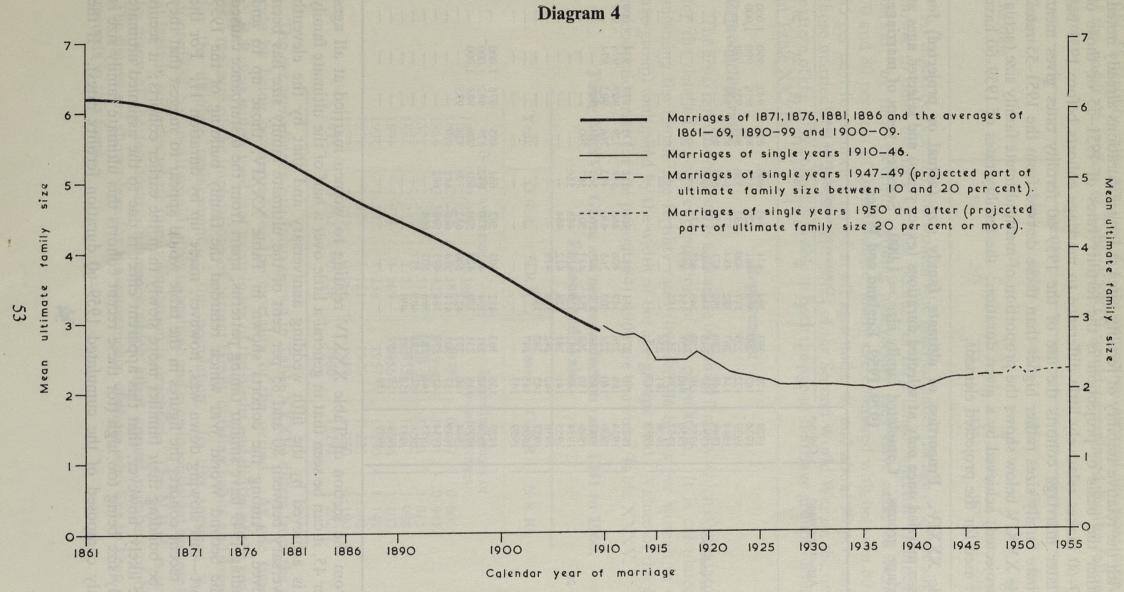
to the mean of those experienced in 1951–55; the second uses similar rates equal to the mean of those experienced in 1959–60. The 1959–60 figures are lower than the 1951–55 figures for marriage cohorts before 1951 and higher for more recent cohorts. The element of projection (though not of course the margin of error) amounts to between 10 and 20 per cent of the total for marriages of 1947–49 and to 20 per cent or more for more recent marriages, the figures gradually becoming more speculative. Whichever assumption is used the projected mean ultimate family sizes are unlikely to be appreciably in error for marriages of 1944 or earlier.

Table XXXIII. Mean ultimate family size of marriage cohorts since 1861, all marriage ages under 45, England and Wales

Calendar year of marriage	Mean ultimate family size	Calendar year of marriage	Mean ultimate family size (actual)	Calendar year of marriage	ultimate t	ed mean family size ity rates for
	(actual)		(uctuut)		1951–55	1959–60
1861–69 1871	6·16 5·94	1910 1911 1912	2·95 2·83 2·80	1930 1931 1932	2·09 2·08 2·08	2·09 2·08 2·08
1876	5.62	1913 1914	2·81 2·73	1933 1934	2·06 2·04	2·06 2·04
1881	5.27	1915 1916	2·43 2·43	1935 1936	2·04 2·01	2·04 2·01
1886	4.81	1916 1917 1918	2·44 2·45	1936 1937 1938	2.01 2.02 2.06	2.01 2.02 2.06
1890–99	4.13	1919	2.57	1939	2.05	2.05
1900–09	3.30	1920 1921 1922 1923 1924	2·47 2·38 2·28 2·23 2·21	1940 1941 1942 1943 1944	1·99 2·03 2·08 2·14 2·18	1·99 2·03 2·07 2·13 2·17
5060 00000 T	900.1 100	1925 1926 1927 1928 1929	2·17 2·14 2·09 2·08 2·08	1945 1946 1947 1948 1949	2.18 2.19 2.20 2.21 2.22	2·16 2·17 2·19 2·20 2·21
on welcoma	list entrolls	e souse value	nolvenin han	1950 1951 1952 1953 1954	2·32 2·21 2·24 2·27 2·27	2·31 2·23 2·27 2·31 2·34
TAN XXX of the	Sin event	wasishanis	prebe leten	1955	2.28	2.38

It is necessary to bear in mind that the rise in ultimate family size projected for the most recent cohorts may be a product of the method of projection which implicitly assumes, by the use of current fertility rates for all durations, that the rates at longer durations will be unaffected by the high fertility at short durations.

Diagram 4 shows the mean ultimate family size (actual or projected) of marriage cohorts since 1861, using the assumptions based on 1951–55 fertility rates for the recent cohorts.



Mean ultimate family size of marriage cohorts since 1861, all marriage ages under 45, England and Wales

With the relative stability of fertility rates at longer durations already noted, whether the basis of projection is the fertility rates of 1951–55 or those of 1959–60 makes relatively little difference to marriage cohorts before 1951 but for later marriage cohorts the use of the 1959–60 fertility rates gives mean ultimate family sizes rather higher than those derived from the 1951–55 rates. Table XXXIV below shows the proportion of mean ultimate family size (actual or projected) achieved by a given duration; the fertility rates of 1959–60 have been used for the projected element.

Table XXXIV. Proportion of ultimate family size (actual or projected) for women married once only at selected durations (exact years) and selected ages at marriage groups. Completed family size = 1,000. Selected years of marriage, 1929–1959, England and Wales

									Mr. 50		Marie Marie	
Long I		Caland	e la		Du	iration	at marri	iage (ex	act year	rs)		
Age at marria	ge	Cohort	1	2	3	4	5	6	11	16	21	26
All ages under 45	{	1929 1934 1939 1944 1949 1954 1955 1956 1957 1958 1959	178 167 122 134 149 137 139 140 139 141	303 289 229 267 280 248 252 251 253 254	394 378 317 382 380 346 349 354 355	471 461 400 484 471 440 445 453	543 529 483 571 552 530 534	606 593 556 641 624 607	827 819 849 852 855 —	942 956 951 949 — — — —	990 990 990 — — — — —	1,000
Under 20	{	1929 1934 1939 1944 1949 1954 1955 1956 1957 1958 1959	190 188 140 131 150 146 141 142 142 145 145	278 276 228 234 263 242 241 242 242 247	351 347 303 330 351 329 328 334 334	412 406 365 423 433 410 412 418	468 465 430 502 502 488 484 —	518 518 492 567 567 556 —	731 729 766 784 790 — —	877 909 902 904 — — — —	974 976 974 — — — — —	1,000
25–29	{	1929 1934 1939 1944 1949 1954 1955 1956 1957 1958 1959	158 152 116 140 157 141 148 151 155 158	303 291 231 297 303 273 282 283 285 292	412 394 330 427 411 384 396 405 406	503 485 428 540 514 495 505 517	582 570 520 632 605 596 604	661 642 601 708 681 682 —	885 879 908 924 919 — — — —	976 982 988 995 — — — —	1,000 1,000 1,000 — — — — — —	

From the section of Table XXXIV relating to women married at all ages under 45, it can be seen that in general a little over a half of the ultimate family size is achieved by the fifth wedding anniversary and that by the eleventh anniversary between 80 and 85 per cent of the ultimate family size has been achieved. Among the cohorts shown in Table XXXIV, those up to and including 1949 have similar timing patterns, apart from the disturbance caused by the Second World War which retarded the family building of the 1939 cohort—this slowing down was, however, made up by duration 11. For the most recent cohorts the figures in the table would appear to suggest that they may be building their families more slowly than the earlier cohorts; it seems more likely, however, that this apparent effect is due to the assumed ultimate family size being too high (for these recent cohorts this ultimate family size is mainly composed of the cumulated 1959–60 duration fertility rates). If the

1951-55 fertility rates are used for the projection element the final diagonal of the under 45 section of Table XXXIV would be replaced by the following figures:

Cohort	1959	1958	1957	1956	1955	1954
Duration	1 111	2	3	4	5	6
9767 Apple 2 Appl 18	159	273	377	476	557	628

As would be expected, the women who married under the age of 20 are slightly slower to build up their families because of their longer effective childbearing period; by their eleventh wedding anniversary they have achieved between 70 and 80 per cent of their ultimate family size compared with between 80 and 85 per cent for women married at all ages under 45 and about 90 per cent for those married at age 25–29. The effect of the Second World War on the timing pattern of the 1939 cohort is visible in both the age-at-marriage groups identified in Table XXXIV.

Replacement

Reproduction rates

The gross reproduction rate is a measure of annual fertility which is standardised for the detailed sex-age composition of the population. It is calculated by summing the female age fertility rates (live female births per woman in each age-group) multiplied by the width of the age-groups used. Values of the gross reproduction rate for the period 1841–1960 are shown in Table XXXV.

Table XXXV. Gross and net reproduction rates 1841 to 1960, England and Wales

Year	G.R.R.	N.R.R.	Year	G.R.R.	N.R.R
3-	year averag	es	Indiv	vidual year	s or
1841	1 2.237	1 · 349	anı	nual averag	ges
1851	2.264	1.381	1938	0.897	0.805
1861	2.277	1 · 427	1939-49	1.031	0.945
1871	2.356	1.511	1950-54	1.061	1.015
1881	2.252	1.511	1955	1.077	1.038
1891	1.973	1.369	1956	1.146	1 · 107
1901	1.702	1.238	1957	1.190	1.149
1911	1.428	1 · 121	1958	1.221	1.182
1923	1.153	0.966	1959	1.230	1.190
1933	0.862	0.756	1960	1.291	1 · 252

The net reproduction rate (also shown in Table XXXV) differs from the gross rate by being discounted for the mortality of the period. At one time the N.R.R. was widely used, not as an index of the births and deaths of the year but as a measure of the implications of current family building habits and mortality for the ultimate replacement of the population. In this sense it is now discredited, because it would imply unrealistic and even inconsistent assumptions, at least in societies where family limitation is practised. The N.R.R. is subject to many of the temporary influences which affect annual numbers of births. The figures are shown here for the convenience of those who like to keep serial records in this form.

Marriage standardised replacement rate

The conventional net reproduction rate described above can be improved by taking into account marriage as well as fertility and mortality. Even reproduction rates refined in this way, if they relate to a year or similar period, are subject to distortions and fluctuations when the time-pattern of family building is changing though ultimate family size may be constant.

Nevertheless, it is possible to calculate a hypothetical replacement rate assuming that a given set of marriage, fertility, widowhood and divorce rates will continue. If cohort analysis indicates that such rates represent a stable pattern then such replacement rates may be taken to summarise the habits of the generations and cohorts currently passing through the reproductive period. In the Fertility Report of the 1951 Census a generation replacement rate was calculated by multiplying the age-duration fertility rates for 1951-55 by the population of women in a female nuptiality table for England and Wales which was specific by duration of marriage. This gave a female generation replacement rate, according to female nuptiality, of 1.01. If replacement rates are to be constructed on several different assumptions or more frequently, a less laborious method than that outlined above is needed. An abridged nuptiality table was constructed to produce the number of marriages in five-year age-groups from an original generation of 100,000 females. These numbers of married women were then multiplied by the mean ultimate family size appropriate to each marriage age to give the expected number of live births in the second generation. Multiplying this total by the sex ratio at birth produced the expected number of female births and hence a marriage standardised replacement rate. An abridged calculation of this kind gives, for the rates of 1951-55, results very close to those of the complete calculation but this is only because the omitted elements such as curvature of marriage rates, mortality between 15 and 50, dissolution of marriages by death, widowhood and divorce and the differential fertility of the re-married largely compensate for each other.

The above marriage standardised replacement rate was calculated on the assumption that some stability had been reached in both marriage and fertility rates. Since 1956, however, marriage rates at younger ages have continued to rise and fertility rates have also risen. It is interesting to repeat the above calculation using an abridged nuptiality table for 1960 and mean ultimate family sizes based on the fertility rates of 1959–60 in order to see the effect of the continued operation of these rates. The outline of this calculation is shown in the statement below.

Age at marriage	Marriages in 1960 abridged nuptiality table from an original generation of 100,000 females	Mean ultimate family size based on 1959–60 fertility rates	Expected live births in second generation
15-19	24,568 58,495 8,707 2,039 630 351	3·248 2·446 2·088 1·511 0·796 0·245	79,797 143,079 18,180 3,081 501 86
lains, eggs gr		eted live births	244,724 118,856

Generation replacement rates

The replacement rate of actual generations since 1838–43 were shown and discussed in the 1956 Commentary (pages 23–24). The number of female births to the 1838–43 generation of women, the last before the spread of family limitation, was about 40 per cent above replacement level. Then followed a decline in the replacement rate until, with the 1903–08 generation, it was 30 per cent short of the number needed for replacement. Since then the rate has been rising and, if present trends continue, will reach replacement with the generation born in 1943–48 or a little earlier if marriage rates continue above the 1951–55 level.

The rate of the rise has been slowing down and there are no clear indications at present that it will carry the rate very much higher. The greater part of the recovery in the level of the replacement rates since the 1903–08 generation has been due to improved mortality (mainly in infancy) and higher marriage rates, and in both these respects there is now limited scope for further improvement.

Birth order

The legitimate maternities of the year are tabulated by birth order as well as mother's age at maternity in Table HH. In 1960, 38 per cent of all births were first births, 31 per cent second, 16 per cent third and 16 per cent fourth or later births, a distribution which differs little from that of earlier years.

Table MM gives a threefold classification by mother's age at marriage, duration of marriage and birth order and makes it possible to investigate the share of births of different orders in the recent rise in fertility rates. True birth order rates would relate, say, the second maternities of mothers married in 1953 at age 20-24 to the estimated number of women in that group who have so far had one child. It has not yet been possible to carry out the considerable work of making a series of such estimates in line with those of mean family size in the 1955 Commentary. In the meantime a series of rates has been computed relating the live births* of each calendar year from 1952 to 1960, classified by birth order, to all the women married for the first time in the same marriage year and marriage age as the mothers concerned. In effect, the marriage age/ cohort rates of Table OO (style of 1952-55, but live births) have been subdivided by birth order in proportion to Table MM. The rates for 1960 are shown in Appendix B on pages 276-277. The rates for all ages under 45 combined are means of the age rates weighted by the original number of spinster marriages in each cohort and age-group and index numbers of these all-ages rates are shown in Table XXXVI for durations up to 15 and for duration 20. Figures are not shown for 1953–57 which follow the pattern established by the figures shown in Table XXXVI, but figures for these years appeared in the 1957 Commentary, pages 21-23.

^{*} Maternities converted by the appropriate coefficients.

Table XXXVI. Ratios of fertility rates by birth order (live births per woman married once only, irrespective of parity) to those of 1952 taken as 100, all marriage ages under 45, 1952 and 1958 to 1960, England and Wales

Mean	Calendar	Calendar	ggieing	Num	ber of pre	vious chil	dren	Hardron.
narriage duration (years)	year of marriage	year of maternity	Total	0	1	2	3	4 and over
1/3	1952 1958 1959 1960	1952 1958 1959 1960	100 117 116 125	ones is	acter	100 117 116 125	algon noi algon noi assaige	anonsi lentTo
1	1951 1957 1958 1959	1952 1958 1959 1960	100 110 111 113	100 108 109 111	D per ce	100 138 146 153	8	micatin écline 0 per
2	1950 1956 1957 1958	1952 1958 1959 1960	100 106 106 110	100 98 96 98	100 120 124 134	EBEL ai	100 117 122 126	Denome 15-160 16-170
3	1949 1955 1956 1957	1952 1958 1959 1960	100 112 117 121	100 109 110 108	100 117 124 131	as take a de tovoid de tespoid	100 106 116 129	ABVOR
4	1948 1954 1955 1956	1952 1958 1959 1960	100 117 115 123	100 119 113 116	100 117 117 117 126	100 115 116 130	10	00 01 07 23
5	1947 1953 1954 1955	1952 1958 1959 1960	100 121 124 126	100 142 140 132	100 118 119 122	100 114 121 126	10 11 12 13	
6	1946 1952 1953 1954	1952 1958 1959 1960	100 120 120 126	100 155 154 147	100 118 118 122	100 111 112 122	100 106 110 123	100 111 108 123
7	1945 1951 1952 1953	1952 1958 1959 1960	100 119 121 127	100 157 156 150	100 115 113 121	100 111 115 123	100 112 117 126	100 129 132 142
8	1944 1950 1951 1952	1952 1958 1959 1960	100 127 120 129	100 173 171 167	100 124 115 124	100 117 112 123	100 126 115 128	100 130 121 134
9	1943 1949 1950 1951	1952 1958 1959 1960	100 112 123 120	100 135 145 141	100 105 116 116	100 103 115 113	100 110 121 118	100 131 144 135
10	1942 1948 1949 1950	1952 1958 1959 1960	100 109 109 126	100 121 124 137	100 96 92 107	100 102 101 118	100 118 116 140	100 136 147 161

Table XXXVI—continued

Mean marriage	Calendar	Calendar year	bibilots	Num	ber of pre	vious chile	dren .	ter din
duration (years)	of marriage	of maternity	Total	0	1	2	3	4 and over
11	1941 1947 1948 1949	1952 1958 1959 1960	100 107 108 115	100 100 112 113	100 89 89 94	100 101 101 109	100 115 113 123	100 140 144 151
12	1940 1946 1947 1948	1952 1958 1959 1960	100 105 108 115	10 8 8 9	5 8	100 97 100 108	100 113 114 116	100 142 145 152
13	1939 1945 1946 1947	1952 1958 1959 1960	100 104 106 114		6	100 101 101 108	100 107 104 114	100 111 124 128
14	1938 1944 1945 1946	1952 1958 1959 1960	100 114 113 116	10 10 10 10)5)9	100 123 116 122	100 120 116 120	100 110 112 118
15	1937 1943 1944 1945	1952 1958 1959 1960	100 117 117 116	10 11 11 11	8	100 129 124 127	100 120 123 124	100 109 113 107
20	1932 1938 1939 1940	1952 1958 1959 1960	100 87 97 99		PER TW	100 87 97 99	perioe sunted cand 3	10 E-12

When the births are so finely subdivided there are bound to be many small numbers subject to chance fluctuations and in Table XXXVI births of different orders have therefore been grouped together in such a way that the corresponding cells in Table MM contain at least 1,000 maternities. Even so there are quite a few cells where no significance can be attached to very small movements in the index numbers.

Table XXXVI shows that the rise in births in 1960 compared with 1959 affected most durations up to 20 years. The pattern of changes between these years in birth orders is rather irregular but there appears to be a tendency for the ratios for higher orders at a given duration to rise more than the lower birth order ratios; for a number of durations the ratio of first births has in fact fallen.

Over the period shown in Table XXXVI the first and fifth and higher order birth rates have risen more than the rates for second and third order births at durations 5 to 9. This effect may be partly due to the peculiar structure of these rates in 1952 when the first order rates were depressed because the women married in the period just after the Second World War had their first children more quickly after marriage than later cohorts. By duration 5 to 6 their rates in Appendix B would be smaller than those of following cohorts because there were fewer at risk of having a first child. In the same way fifth and higher order births would be proportionately under-represented among the total births of

1952 because few of the women married in the period just after the Second World War would be having births of these orders by 1952, to which year the birth rates of subsequent years have been related.

Sex ratio at birth

In 1960 there were 1,061 male live births per 1,000 female live births. Serial records are published in Table C of Part II and separate figures for births by legitimacy are shown in Table XXXVII. The generally rising trend in the proportion of boys during this century can be attributed to the reduction in foetal mortality in this period. This topic was discussed in more detail in the 1959 Commentary.

Table XXXVII. Male births per 1,000 female births, by legitimacy and whether live or still, 1928 to 1960, England and Wales

Davis	J 00	L	egitimate l	oirths	II	legitimate	births
Perio	d all	Live	Still	Live and still	Live	Still	Live and still
1928–30		1.044	1,231	1,051	1,037	1,280	1.049
1931-35		1,051	1,207	1,057	1,044	1,153	1,049
1936-40		1,054	1,183	1,059	1,050	1,117	1,054
1941-45		1,061	1,158	1,064	1,074	1,173	1,078
1946-50		1,061	1,169	1,063	1,056	1,238	1,061
1951-55		1,059	1,126	1,060	1,061	1,229	1,066
1956		1,057	1,108	1,058	1,055	1,049	1,055
1957		1,061	1,081	1,061	1,049	1,002	1,047
1958		1,059	1,083	1,060	1,055	1,164	1,058
1959		1.063	1,071	1,063	1,069	1.144	1,071
1960		1,061	1.048	1,062	1,048	1.064	1.049

Multiple births

Among the 791,584 maternities in 1960 there were 9,163 with multiple births, 9,086 with twins and 77 with triplets. They produced 17,590 liveborn children and 813 stillborn children. Thus one in 86 of all maternities produced twins and nearly one in ten thousand produced triplets. Details are given in Tables CC and DD.

The number of multiple maternities in a single year is too small for detailed study; the figures would be too much affected by chance fluctuations. A detailed analysis, combining figures for several years, appeared in the 1956 Commentary, pages 33–42.

Seasonal incidence of births

Table XXXVIII shows the quarterly pattern of live births since the 1841–50 decade measured by the ratio of the average number of births per day for each quarter compared with the daily average for the whole year. The daily average has been used, to allow for differences in the length of quarters and months.

Table XXXVIII. Quarterly incidence of live births in relation to the average for the calendar year: ratio of quarterly daily average to that of the calendar year taken as 100: 1841 to 1960, England and Wales

Period		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
1841–1850		105	103	96	96
1851-1860		105	104	96	95
1861-1870		104	103	97	96
1871-1880		103	102	98	97
1881–1890		103	102	98	97
1891–1900		102	102	99	97
1901-1910		102	103	100	95
1911–1920		103	102	99	96
1921–1930		102	105	100	93
1931–1935		101	106	101	92
1936-1940		100	106	102	92
1941-1945		100	104	99	97
1946-1950		103	104	99	94
1951–1955		103	105	99	93
1956		102	103	100	95
1957		100	104	99	97
1958		104	102	97	97
1959	ont	105	104	98	93
1960		101	103	100	96

There has been little change in the seasonal pattern over the period shown in Table XXXVIII. The first half of the year has normally accounted for a few per cent more than the average daily births for the whole year and the second half of the year for correspondingly less. Since the beginning of this century the average daily number of births has usually been highest in the second quarter of the year and lowest in the last quarter. The pattern for 1960 returned to that which has prevailed during this century, in contrast to 1958 and 1959 which had their highest daily average in the first quarter.

The quarterly incidence of births for recent years distinguishing legitimate and illegitimate live births is shown in Table XXXIX. This table demonstrates that the quarterly pattern is similar for legitimate and illegitimate live births.

Table XXXIX. Quarterly live birth incidence in relation to the average for the calendar year: ratio of quarterly daily average to that of the calendar year taken as 100: 1939, 1951–55, 1958 to 1960, England and Wales

Period	Period 1939 1951–55 average		1958	1959	1960
The State of the S		All live birt	hs		
1st Quarter	101 107 100 92	103 105 99 93	104 102 97 97	105 104 98 93	101 103 100 96
	Le	gitimate live bir	rths		
1st Quarter	101 106 100 93	103 105 99 93	104 102 97 97	105 104 98 93	101 103 100 96
]	llegitimate live	births		
1st Quarter	106 108 99 87	104 107 98 91	103 101 97 99	103 104 99 94	97 103 101 99

The monthly birth figures in Table TT allow a more detailed study. The ratios of the daily averages in each month to those for the calendar year are contained in Table XL for some recent years.

Table XL. Monthly birth incidence in relation to the average for the calendar year, 1939, 1951–55, 1959 and 1960, England and Wales

Month o	of	R	Latio of mo	nthly dai	ly average taken as	ge to that of the calendar year s 1,000							
occurren		L	egitimate li	ve births	st quart t this or	the la	llegitimate	live birth	s orth 1				
	-	1939	1951–55	1959	1960	1939	1951–55	1959	1960				
January		980	994	1,013	953	1,076	998	1,024	917				
February		995	1,030	1,053	1,036	1,041	1,049	1,029	1,017				
March		1,041	1,063	1,077	1,057	1,080	1,074	1,050	994				
April		1,073	1,056	1,056	1,022	1,046	1,078	1,039	1,007				
May		1,078	1,065	1,050	1,043	1,138	1,084	1,056	1,050				
June		1,043	1,035	1,014	1,015	1,044	1,056	1,013	1,019				
July		1,025	1,009	1,001	1,004	1,038	1,020	1,017	1,028				
August		985	968	960	970	960	941	981	976				
September		1,004	991	990	1,015	969	970	981	1,026				
October		939	936	959	974	859	890	916	1,004				
November		914	913	902	956	853	900	914	976				
December		927	941	928	959	889	950	974	988				

For live births Table XL shows that the daily average is normally at a minimum in November, rises sharply until March, remains high until May or June and then declines again except for a minor rise in September (corresponding to December conceptions).

After the disturbance in the seasonal pattern in 1958 and 1959, 1960 showed a return to more normal conditions with generally high ratios of monthly to annual figures from February to June (with particularly high figures in March and May). There was less monthly variation in 1960 than in 1959; the extreme values of the ratios in Table XL were rather closer than in 1959.

The seasonal pattern of ratios to the calendar year average such as those shown in Table XL is disturbed if the trend of births is not constant. Such distortion can be eliminated by relating the average daily number of births for the month, not to the average for the year, but to the trend value for that particular month. This comparison has been made for the period since 1957 and the results are shown in Table XLI and illustrated in Diagram 5.

Table XLI. Monthly incidence of legitimate live births in relation to the trend, 1957 to 1960, England and Wales

The ratios were calculated before rounding off the mean numbers

		Mean n	umbers	of legit	imate li	ve birth	s per da	ay		Ratio of	actual to)
Month of occurrence	1 171	Act	ual	1900	Trend trend value			value				
	1957	1958	1959	1960	1957	1958	1959	1960	1957	1958	1959	1960
January	1,841	1,933	1,972	1,932	1,844	1,914	1,946	1,981	0·998	1·010	1·013	0·975
	1,941	1,987	2,050	2,101	1,852	1,917	1,948	1,988	1·048	1·036	1·052	1·056
	1,990	2,103	2,095	2,143	1,861	1,920	1,951	1,996	1·069	1·095	1·074	1·074
April	1,971	2,028	2,055	2,072	1,870	1,923	1,953	2,003	1·054	1·055	1·052	1·035
May	1,991	2,010	2,044	2,115	1,880	1,926	1,955	2,011	1·059	1·043	1·046	1·052
June	1,935	1,891	1,974	2,058	1,890	1,930	1,958	2,018	1·024	0·980	1·008	1·020
July	1,840	1,815	1,949	2,035	1,897	1,933	1,960	2,025	0·970	0·939	0·994	1·005
August	1,819	1,835	1,868	1,967	1,901	1,935	1,961	2,033	0·957	0·948	0·953	0·968
September	1,904	1,942	1,927	2,059	1,904	1,937	1,963	2,040	1·000	1·003	0·982	1·009
October	1,861	1,883	1,866	1,976	1,908	1,939	1,966	2,047	0·975	0·971	0·949	0.965
	1,758	1,848	1,755	1,877	1,910	1,941	1,970	2,055	0·920	0·952	0·891	0.913
	1,802	1,893	1,807	1,945	1,912	1,944	1,975	2,062	0·942	0·974	0·915	0.943

When seasonal variation has been eliminated it can be seen that there was an upward trend throughout the whole of this period. The trend rose a little more steeply in the second half of 1960 than in the first part of the year.

Birth rates in different parts of the country

The numbers of live births by sex and legitimacy and the crude birth rates for all administrative areas in England and Wales with summary figures for regions, conurbations and urban and rural aggregates are shown in Table E of Part II. This table also includes an Area Comparability Factor for each area by which the crude birth rates can be standardised for the sex and age structure of the local population. The ratio of the local rate thus adjusted to the national birth rate is also published in Table E. Comparison of birth rates in regions, conurbations and urban and rural aggregates appeared in the 1959 Commentary (pages 65–68).

Monthly incidence of legitimate live births in relation to the trend, 1957 to 1960, England and Wales

GENERAL MORTALITY

Statistical tables showing the mortality experience of 1960 in England and Wales published in Part I of the Review are supplemented by tables with certain calculated rates in this Commentary. It is the purpose of this chapter to draw attention to the more important figures and trends disclosed in the tables.

Crude death rate

In 1960 there were 526,268 deaths. When these are related to the *home* population actually resident in England and Wales on 30th June 1960, they give a crude death rate of 11.5 deaths per thousand persons of all ages.

There has been little change in the crude death rate for the 40 years since 1920 when the rate was 12·4 per thousand; in this period it has fluctuated between 14·4 per thousand in 1940 and 11·0 per thousand in 1948. There appear to be only two major influences which cause marked fluctuation in the number of deaths in a given year; these are either a severe sharp cold spell, or an outbreak of influenza. A fog occurring over a wide area may cause an increase in the weekly death rates but does not appear to have a major influence on the annual mortality. 1960 was a fortunate year in these respects. The winter quarter January to March was milder than usual and consistently so; in only one week was there a cold spell and even in this period, January 10th to January 16th, the mean daily temperature at Kew was 33·6° F. (1° C.) and there were no severe fogs. The autumn of this year, October to December, was warm, a temperature of 54° F. (12° C.) being recorded at Kew on 4th December 1960 and there were no persistent fogs.

Epidemic influenza was also a notable absentee during this year as is shown in the table below:

Deaths assigned to pneumonia (ICD Nos. 490-493) and influenza (ICD Nos. 480-483) by quarters, England and Wales, 1958 to 1960

	1958		195	59	1960		
	Pneumonia	Influenza	Pneumonia	Influenza	Pneumonia	Influenza	
January–March April–June	9,766	1,891	12,734	6,902	8,014	508	
	5,027	226	5,044	659	5,701	262	
July–September	3,166	43	3,303	60	3,968	51	
October–December	5,779	241	5,509	241	6,660	277	

It is the usual experience that when deaths assigned to influenza show a marked increase, those assigned to pneumonia show a similar increase above their normal seasonal average. It will be seen that in 1960 not only was there no influenza epidemic but there was no sharp increase above the seasonal normal of deaths assigned to pneumonia. These fortunate circumstances helped to make the crude death rate of 11.5 per thousand the lowest since 1957.

Standardised Mortality Ratio

Although the crude death rate has remained relatively constant for many years, this does not by any means imply that there has not been a steady improvement in the mortality rates. The crude death rate is influenced by two

major factors: the age specific death rates on the one hand, and the actual age structure of the population on the other. Over the whole of this period there has been a steady decline in death rates at most ages, but at the same time there has been an increase in the average age of the population. There are two principal ways of eliminating the effect of increasing age; the first is by the technique of the Standardised Mortality Ratio which is described in detail in the Explanatory Notes in Part I of the *Review**, the second is to examine separately each of the age specific death rates. Table 3 shows that the death rates of 1960 were the most favourable experienced in England and Wales since death registration was instituted. Allowing for differences in sex and age, the Standardised Mortality Ratio shows that if 1950–52 were taken as 100, 1960 was 89. Thus in the decade which has elapsed since 1950, there has been an effective decline of 11 per cent in mortality.

This finding should not be accepted complacently. The fact that this trend has been continuing for over a century is no reason for believing that continued improvement is inevitable. On the contrary, it may prove difficult to maintain the level achieved in 1960 since there appears to be little room for further reduction in the mortality attributed to infectious diseases.

Age specific death rates

It is particularly interesting to examine the individual death rates at various ages of life to see whether this improvement has been uniform over all ages and both sexes. The following table compares the death rates at various ages in 1950 with those in 1960 and shows the percentage change that has occurred in this decade.

Death rates per 1,000 population, England and Wales, 1950 and 1960

fluenza (ICD Nos.	Males			Females				
Age	1950	1960	1960 as per cent of 1950	1950	1960	1960 as per cent of 1950		
0-1† 1-4 5-9 10-14 15-19 20-24 25-34 35-44 45-54 55-64 65-74 75-84 85 and over	34 1·42 0·75 0·56 1·01 1·39 1·69 2·92 8·26 22·5 53:3 122·5 250·4	25 0.95 0.53 0.38 0.91 1.17 1.12 2.41 7.17 21.4 52.5 119.6 232.1	74 67 71 68 90 84 66 83 87 95 98 98	26 1·27 0·53 0·41 0·78 1·09 1·45 2·32 5·30 12·6 34·7 96·6 216·9	19 0·78 0·34 0·26 0·36 0·44 0·73 1·73 4·35 10·6 29·5 84·4 210·4	73 61 64 63 46 40 50 75 82 84 85 87 97		

[†] Deaths under 1 year of age per 1,000 live births.

It is necessary to bear in mind that a comparison is being made between two single years and some of the differences could be affected by epidemic causes.

One age-group in particular appears to have failed to benefit. Adolescent males age 15–19 have a death rate of 91 per 100,000 compared with 101 per 100,000 in 1950. The very small decline in the death rate of these young men may be attributed almost entirely to an increase in deaths arising from motor vehicle traffic accidents. The figures show that deaths of male motorcyclists age 15–19 (ICD Nos. E814, E815, E821) increased from 110 in 1950 to 450 in 1960, while other motor vehicle traffic accident deaths increased from 124 to 185.

Ages of man

The same disease at different ages may produce very different symptoms, different complications, different social implications, different modes of death. It is therefore of interest, both from a demographic and medical point of view, to examine mortality at the various ages of man. The most meaningful separation of the various age-groups is not on a chronological basis but on a physiological one, yet unfortunately this is impractical from the statistical point of view. A compromise has accordingly been adopted in the age groupings used in the following analysis.

For purposes of contrast the difference between two successive years is too small to highlight significant trends, whereas if a contrast is made over a long interval of time other social, medical or statistical changes have taken place to alter the significance of the differences found. In this analysis 1960 is compared with 1950. Both are post-war years, both are subsequent to the introduction of the National Health Service, both had full employment and both had good weather. In this decade, too, there were only minor changes in the statistical classification of diseases due to the Seventh Revision of the International Classification which came into operation in 1958.

Stillbirths

Although stillbirths have been registrable events since 1927 it was only in October 1960, under the Population (Statistics) Act, 1960, that the causes of these late foetal deaths have been required to be stated. Figures for the last three months of 1960 have been published in the *Registrar General's Quarterly Return* for the December Quarter 1960, and later figures will be included in Part I of the Review from 1961 onwards.

The improvement in late foetal deaths has not been spectacular during the last decade. The reduction from 22.6 deaths per 1,000 live and still births in 1950 to 19.8 is a decline of 12 per cent but it should be noted that all of this

^{*} The Registrar General's Statistical Review, 1960, Part I, Tables, Medical. H.M.S.O., price £1 2s. 6d. net.

improvement has taken place during the last 3 years, 1958–1960. It seems possible that some of these foetal deaths have been counted with the deaths occurring within the first day of life, since these deaths have increased slightly.

Infant mortality—age under 1 year

The infant mortality rate continues to improve and the rate in 1960 with 17,118 deaths was the lowest ever experienced at 21·8 per 1,000 live births. This is almost exactly one half of the rate immediately after the war, when it was 42·9 in 1946. It is important, however, that over the decade the greatest improvement in mortality has been at the older ages between 1 month and 1 year, but this tendency has altered in the last three years and the rate at the older ages is steady, whereas the neonatal rate is showing some slight improvement. The types of disease causing death during pregnancy or in the first week of life are very different in type and aetiology from those causing death after extra-uterine life has been firmly established and they have proved much more intractable to prevention and cure.

Death rates per 1,000 live births, England and Wales, 1950 and 1960

Age at death	Death 1950	1960	Improvement per cent		
Late foetal deaths†	22·6	19·8	12		
	7·2	7·5	(-4)		
	8·0	5·8	28		
	3·3	2·2	33		
	4·3	2·5	42		
	3·7	2·1	43		
	3·1	1·6	48		

[†] Rate per 1,000 live and still births.

Five principal causes of death account for over 80 per cent of all infant deaths:

Deaths of infants under 1 year, England and Wales, 1960

Cause of death	Number	Per cent		
Congenital malformations		244	3,549	20.7
Immaturity			3,068	17.9
Respiratory diseases			2,887	16.9
Atelectasis			2,676	15.6
Birth injury	O.F.T.	23.0	1,825	10.7

Congenital malformations* accounted for 3,549 deaths in the first year of life or 21 per cent of all such deaths as compared with 3,036 deaths or 15 per cent in 1950. 1,369 of these deaths were due to malformations of the central nervous system, many of which were incompatible with life, and death took

place during the first week. Malformations of the cardiovascular system, however, accounted for 1,359 deaths and many of these deaths occurred later in the first year of life, so it is apparent that with improved facilities for cardiac surgery there is still room for considerable advance in this field.

Immaturity was mentioned as a primary cause of death in 3,068 deaths, which was 18 per cent of all infant deaths, and was mentioned as being associated with death in 3,301 other cases or 19 per cent. Hence, in general, the major contribution towards saving neonatal deaths would be a fuller understanding of the causes of immaturity and preventive action to reduce them.

Respiratory diseases accounted for 2,887 deaths, of which 2,408 (14 per cent of all infant deaths) were attributed to pneumonia. The fact that the infant mortality from pneumonia in winter is twice the summer rate suggests that there may be scope for the improved care of pneumonia cases. In addition, the rate for all respiratory disease in the north of England of 4.53 per 1,000 was almost double that occurring in the south east (excluding Greater London) of 2.67 per 1,000. This suggests that there may be room for preventive and therapeutic action to bring the northern rates to the lower levels prevailing in the south east.

Atelectasis and postnatal asphyxia caused 2,676 deaths of which 2,593 were during the first week of life. This cause of death has remained fairly constant at a rate of about 3.40 per 1,000 live births during the decade.

Birth injuries have shown a decline in the last decade, but they still account for 1.825 infant deaths of which 1,750 occurred within a week of birth.

Despite the very great advance made in reducing infant mortality in the last 20 years, there is still room for improvement and, if the rate for the country as a whole could be reduced to a level equal to that already achieved in the south east (excluding Greater London), approximately 2,400 lives would be saved a year.

Pre-school child age 1-4

In this age-group there were 2,431 deaths in 1960 compared with 4,087 a decade previously.

The decline in *tuberculosis* deaths has been most remarkable. In 1950 there were 489 deaths attributed to various forms of tuberculosis; in 1960 there were 15 and in particular tuberculous meningitis declined from 356 to 9. This can be attributed to three causes: the removal and isolation of known sources of infection, B.C.G. inoculation of those exposed to risk, and chemotherapy available for those attacked. Provided there is further improvement in all these methods, especially so far as children are concerned, there is reason to believe that it will not be long before tuberculosis is all but eliminated as a cause of childhood death.

Mortality from other infectious diseases also declined, but the most striking decline was in poliomyelitis where deaths fell from 116 in 1950 to 3 in 1960. The remainder of the infectious diseases caused 123 deaths in 1960 of which meningococcal infections caused 31, acute infectious encephalitis 24, measles 19 and infectious hepatitis 12.

Neoplasms have now emerged as a relatively important cause of loss in child-hood, not because of an increase but because they have remained fairly stable. In 1950 there were 352 neoplastic deaths between ages 1 and 4; in 1960, 301.

^{*} The subject of congenital malformations is treated more fully at pages 172–183 of the 1959 Commentary. Owing to staff changes it has been necessary to defer the study of regional variations in infant mortality from this cause.

Table XLII. Deaths and death rates per 100,000 living from principal causes by sex and age, 1950 and 1960, England and Wales

	tovias	0(0,010	prano	Age	1-4	HIS RIS	restt i	(HORAL)
Cause and ICD No.	7200	Number of	of deaths	as bon	D	eath rate	per 100.	,000
Cause and ICD No.	1	950	19	060	19	950	19	960
in general, the wajor coulds	Males	Females	Males	Females	Males	Females	Males	Female
Infectiv	e and pa	rasitic dis	eases (00	01–138)			Althou	
Tuberculosis (001–019)	253	236	8	7	16	16	0.6	0.5
Measles (085)	175	181	5 10	9	11 4.6	3.0	0.3	0.3
Acute poliomyelitis (080)	70 158	46 161	52	52	4.5	3 · 1	0·07 3·6	0.1
All infective and parasitic diseases (001–138)	552	487	71	70	36	33	4.9	5.1
Kidney (180)		asms (140				9998.8		10391
Leukaemia and aleukaemia (204)	28 78	20 64	18 70	16 63	1·8 5·0	1.4	1.3	1.2
Brain, malignant (193) Brain, non-malignant (223, 237)	20	21	29	30 5	1.3	1.4	2.0	2.2
Remainder of 140–239	56	43	32	29	3.6	2.9	2.2	2.1
All neoplasms (140–239)	191	161	158	143	12	11	11	10
Diseases of the r Meningitis, except meningococcal and	nervous s 	ystem and	sense o	rgans (330)–398)	St. I		108 90
tuberculous (340)	31	27	31	19	2.0	1.8	2.2	1.4
litis (except acute infectious) (343) Cerebral spastic infantile paralysis (351)	14	5 7	7	14	0.9	0.3	0.5	1.0
Epilepsy (353)	11 16	34	12 25	11 22	0.7 1.0	0.5	0.8	0.8
Remainder of 330–398 All diseases of the nervous system and	52	43	39	29	3.4	2.9	2.7	2 · 1
sense organs (330–398)	124	116	114	95	8.0	7.9	7.9	7.0
Diseases	of the ci	rculatory	system (400–468)				
All diseases of the circulatory system (400–468)	25	12	8	14	1.6	0.8	0.6	1.0
Diseases	of the re	and the Kerkin		AND THE PARTY OF	ra llib	di bio	d3 ,83	D year
Lobar pneumonia (490)	38	28	10	11	2.5	1.9	0.7	0.8
Bronchopneumonia (491)	257 39	263 34	167 45	142	17 2.5	18 2.3	12 3·1	10 2 · 2
Chronic bronchitis (502)	4 125	1 88	8	1	0.3	0.07	0.6	0.0
All diseases of the respiratory system			96	49	8 · 1	6.0	6.7	3.6
(470–527)	463	414	326	233	30	28	23	1 17
Appendicitis (550–553)	of the d	ligestive s	ystem (5	30–587) 11	3.1	2.6	0.8	0.8
Gastro-enteritis and colitis except ulcerative						CHENN		PERM
Remainder of 530–587	71 56	51 51	57 30	34 33	4·6 3·6	3.5	4.0	2.5
All diseases of the digestive system (530–587)	175	140	98	78	11	9.5	6.8	5.7
Diseases of Nephritis and nephrosis (590–594)							0.0	5000
Remainder of 590–637	28 9	27 7	11 7	10	1.8	0.5	0.8	0.7
All diseases of the genito-urinary system (590–637)	37	34	18	16	2.4	2.3	1.3	1.2
	enital m	alformatio			ette a	soul r		lolion
Congenital malformations of circulatory	1	1-11-11	200			lan all		l delar
system (754)	59 70	69 86	83 102	84 84	3·8 4·5	4·7 5·8	5·8 7·1	6.1
All congenital malformations (750–759)	129	155	185	168	8.3	10	13	12
		ses (remai						
All other diseases (rem. 001–795)			49			4.1	3.4	4.4
All accidents Motor vehicle traffic accidents (E810–E825)	, poisoni 156	ngs and vi	iolence (1 7.0	7.6	1 40
Accidental falls (E900–E904)	19	16	18	67	10	7.0	7.6	0.9
Accident caused by fire and explosion of combustible material (E916)	21	44	26	37	1.4	3.0	1.8	2.7
Accidental drowning and submersion (E929) Remainder of E800–E999	101	33	83	20	6.5	2.2	5.8	1.5
All accidents, poisonings, and violence	126	104	98	56	8 · 1	7.0	6.8	4 · 1
(E800–E999)	423	300	335	192	27	20	23	14
ALL CAUSES	2,207	1,880	1,362	1,069	142	127	95	78

The majority of deaths were caused by neoplasms in three sites, kidney 34, brain (malignant and non-malignant) 73, and leukaemia 133.

Inflammatory disease of the central nervous system remained a potent killer of the pre-school child, causing 142 deaths as shown in the table below:

Cause of death and ICD	No.		Deaths in 1960
Meningococcal infections (057)		1 3010	31
Infectious encephalitis (082, 083)			24
Meningitis (340)			50
Encephalitis (343, 344)			37

In addition there were eleven deaths assigned to *chickenpox*, *mumps*, *influenza* and *other infectious diseases* where *encephalitis* was a secondary cause of death. Full details of these deaths will be found in Table CVI (page 209).

The commonest cause of death at this age was diseases of the *respiratory* system with 559 deaths, of which bronchopneumonia caused 309, whilst other respiratory diseases were responsible for 250 deaths. A substantial reduction in the number of deaths from this cause should be possible, especially by the use of improved chemotherapeutic drugs.

Accidents with 527 deaths were the second most important group of causes, and of these motor vehicle traffic accidents were responsible for 177 and drowning accidents for 103. Even at this age the ratio of boys to girls who died of drowning was 4 to 1.

Only in the case of deaths due to fire was the sex ratio to the disadvantage of the girls. This is undoubtedly a reflection of the continued availability and use of inflammable clothing and nightdresses. It is worth recalling that, in his letter to the Registrar General in the 1839–40 Annual Report, Dr. Farr wrote:—

"In the metropolis, in two years, 142 males and 285 females, died by burns! This is to be ascribed to the greater combustibility of the dresses of females: their caps and gowns frequently take fire. Many children are burnt from the same cause. It deserves the consideration of manufacturers, whether cotton and linen may not be made, by a chemical solution, as little liable to take fire as textures of wool."

"The immense number of deaths by drowning (about 2,400 annually) arises, in part, from the neglect of the art of swimming, even by persons who are frequently on deep waters."

The school child age 5-14

At this age death rates have always been at their lowest point in the life of man. Nevertheless, there has continued to be a remarkable decline at these ages. The total deaths in 1960 were 2,615 compared with 3,341 in 1950.

Tuberculosis, as at the younger ages, was almost eradicated. There were only 11 deaths attributable to all forms of tuberculosis and of these 6 were attributed to tuberculous meningitis. A decade previously the figures had been 294 and 186.

Poliomyelitis deaths almost disappeared, the deaths falling from 154 to 5.

Table XLII—continued

The state of the s				Age 5)-14			
Cause and ICD No.	100 001	Number of	of deaths	s	E	eath rate	per 100,	000
Cause and Teb 110.	1	950	1	960	1	950	19	60
	Males	Females	Males	Females	Males	Females	Males	Female
Infectiv	e and pa	rasitic dis	eases (0	01-138)		TOPPLIES		
Tuberculosis of meninges and C.N.S. (010)	96	90	2	1 4	3.2	3.1	0.06	
Acute poliomyelitis (080, 081)	55 82	53 72	1 3	4 2	1.8	1.8	0·03 0·08	0.1
Measles (085)	21 5	10 7	- 9	4 6	0.7	0.3	0.3	0.1
Meningococcal infections (057)	11	6	1	6	0.4	0.2	0.03	0.2
Remainder of 001–138	72 342	38 276	35 51	22 48	2.4	9.5	1·0 1·4	0·7 1·4
		asms (140					CAS L.	
Kidney (180)	2	10	8	14	0.07	0.3	0.2	0.4
Leukaemia and aleukaemia (204)	72 39	69	128	81	2.4	2.4	3.6	2.4
Brain, non-malignant (223, 237)	20	17	70 5	41 16	1.3	1.1	2.0	1·2 0·5
Remainder of 140–239	78 211	58 185	81 292	71	2.6	2.0	2.3	2.1
CALLO PRINCIPLE CARL THE CARTHERING COMP.				223		6.4	8.2	6.6
Diseases of the n Vascular lesions affecting central nervous I	iervoiis s	ystem and	sense o	rgans (330	-398)	POC !	STREET, IN	
system (330–334)	14	4	23	15	0.5	0.1	0.6	0.4
Cerebral spastic infantile paralysis (351)	6 29	31	11 27	30	0.2	0.1	0.3	0.2
Remainder of 330–398	47	34	36	30	1.6	1.2	1.0	0.9
All diseases of the nervous system and sense organs (330–398)	96	73	97	83	3.2	2.5	2.7	2.5
Diseases		DEAR BA		er referen			apolitic	
Rheumatic fever (400–402)	80	68	8	7	2.7	2.3	0.2	0.2
Chronic rheumatic heart disease (410-416)	42	43	4	4	1.4	1.5	0.1	0.1
Remainder of 400–468 All diseases of the circulatory system (400–	41	19	30	19	1.4	0.7	0.8	0.6
468)	163	130	42	30	5.4	4.5	1.2	0.9
Diseases of	of the res	spiratory :	system (470-527)				
Lobar pneumonia (490)	14	23	13	5	0.5	0.8	0.4	0.1
Bronchitis (500–502)	80 24	49	72 20	42	2.7	1.7	2.0	1.2
Remainder of 470–527 All diseases of the respiratory system (470–	62	56	37	28	2.1	1.9	1.0	0.8
527)	180	141	142	86	6.0	4.9	4.0	2.5
Diseases	of the d	igestive sy	stem (5	30_587)			nl "	
Appendicitis (550–553)	71	47	32	16	2.4	1 1.6	0.9	0.5
Gastro-enteritis and colitis except ulcerative (571)	8	5	8	8	0.3	4		
Remainder of 530–587	31	32	36	33	1.0	0.2	0.2	0.2
All diseases of the digestive system (530–587)	110	84	76	57	3.7	2.9	2.1	1.7
Diseases of		to-urinary	system	(590-637)				
Nephritis and nephrosis (590–594) Remainder of 590–637	65	71 6	41 12	27	2.2	2.5	1.2	0.8
all diseases of the genito-urinary system	of a seri	201320		- Control		0.7	0.3	0.3
(590–637)	74	77	53	38	2.5	2.7	1.5	1.1
	enital ma	lformatio	ns (750–	759)				
Congenital malformations of circulatory system (754)	64	38	86	83	2.1	1.3	2.4	2.5
Remainder of 750–759 All congenital malformations (750–759)	39	30	43	45	1.3	1.0	1.2	1.3
	103	68	129	128	3.4	2.3	3.6	3.8
All other		es (remai						
All other diseases (rem. 001–795)	CLEAN SOLD	Braces per	71	and the	2.8	2.5	2.0	1.5
All accidents,								
Motor vehicle traffic accidents (E810–E825) Accidental falls (E900–E904)	284 48	138	289 41	139	9.4	4.8	8.2	4.1
accident caused by fire and explosion of		0.000		MAN AND AND		0.4	1.2	0.4
combustible material (E916) Accidental drowning and submersion (E929)	12 151	33 26	11 150	37 30	0.4	1.1	0.3	1.1
Remainder of E800–E999	121	47	159	49	5.0	0.9	4.2	0.9
All accidents, poisonings, and violence (E800-E999)	616	255	650	267	20	8.8	i bolu	
						0.8	18	7.9
ALL CAUSES	1,979	1,362	1,603	1,012	66	47	45	30

Neoplasms are now the second commonest cause of death in the school child. Although there has been an increase in the death rate from 6·7 per 100,000 in 1950 to 7·4 per 100,000 in 1960, it is difficult to be certain whether this is a true increase or whether it should be attributed to a greater accuracy of diagnosis. In view of the growing recognition by the medical profession that neoplasms are a not uncommon cause of death at these ages, more effort is being expended on the search for the neoplastic process, especially in the brain and in the blood. It is possible therefore that the increase in neoplasms of the brain and of leukaemia is attributable to improved diagnosis.

Rheumatic fever, both acute and chronic, was the cause of 23 deaths in 1960, whereas a decade previously the figure was 233. Thus rheumatic fever, like tuberculosis, is almost routed but the attributable causes of the decline are better social conditions as well as improved management and chemotherapy. It is probable that the death rate is matched by an equal fall in the morbidity from chronic rheumatic heart disease and that in future we may expect a great reduction in the morbidity and ultimate mortality from valvular disease and that the sound of the leaking rheumatic mitral valve will become a rarity in medical practice.

Deaths due to *respiratory diseases* were not at all as common at this age as among the pre-school children. But 228 deaths did occur, of which 149 were attributed to pneumonia.

Gastro-intestinal deaths were relatively few, but there were 48 deaths attributable to appendicitis and 34 of these were with peritonitis. The death rate is much higher among boys. The figures also suggest that early diagnosis of this disease continues to prove difficult.

Accidents remain the greatest killer of school children, although there has been some slight improvement in the death rates from these causes.

Death rates at ages 5-14 per 100,000 population

		The second	19	050	1960		
Cause of death			Males	Females	Males	Females	
All accidents Motor vehicle traffic accidents			20·5 9·4	8·8 4·8	18·3 8·2	7·9 4·1	
Drowning Fire			5·0 0·4	0·9. 1·1	4·2 0·3	0·9 1·1	

Great effort is directed towards road safety instruction but in the summer months, especially among boys, drowning is almost as important a cause of death.

As with the pre-school child, it is only in the case of deaths caused by fire that the sex ratio is inverted. No doubt many of these fatalities arise from the continued use of inflammable clothing and nightdresses.

The adolescent and young adult age 15-24

This age range is a mixture both socially and physiologically. Within it the individual passes out of the stress of puberty to become a young adult; indeed, before its close many accept the responsibilities of family life. There is undoubtedly a difference in the mortality experience at these various stages, but it is necessary in this general commentary to aggregate them under one chronological period.

Table XLII—continued

	ALLESON.	TILL ST		Age	15-24	1 105	1110	F CACK
Cause and ICD No.	01 00 1	Number of	of deaths	JOHN !	Г	eath rate	per 100	,000
Cause and 105 110.	19	950	1	960	1	950	1	960
platfe in the beam and in the	Males	Females	Males	Females	Males	Females	Males	Femal
Infectiv	e and pa	rasitic dis	eases (0	01–138)	di old	s possi	11	book
Tuberculosis, respiratory (001–008)	446	924	5 2	8	16	32	0.2	
Tuberculosis of meninges and C.N.S. (010) Other tuberculosis (011–019)	56 70	91 65	5 9	7 1	2.0	3.1	0.07	
Acute poliomyelitis (080, 081)	84	81	9 22		3.0	2.8	0.3	
Remainder of 001–138	49 705	1,202		22 42	25	1.4	0·7 1·4	
	Neopla	asms (140	-239)	ballion		is is a		STATE
Bone (196)	48 32	23	34 50	22	1.7	0.8	1.1	0.
Leukaemia and aleukaemia (204)	71	47	74	47	2.5	0.6	1.7	1.
Brain, malignant (193)	23	22	27	22	0.8	0.8	0.9	0.
Brain, non-malignant (223, 237) Remainder of 140–239	19	20 78	15 113	11 71	0·7 4·0	0.7	0.5	0.
All neoplasms (140–239)	307	206	313	198	11	7.1	- 11	6.
Diseases of the	nervous s	system an	d sense	organs (33	0-398)			U JSST
Vascular lesions affecting central nervous system (330–334)	30	32	40	37	1.1	1.1	1.3	1.
Cerebral spastic infantile paralysis (351)	7	8	8	6	0.2	0.3	0.3	0.
Epilepsy (353)	84 83	52 42	41 40	42 29	3.0	1.8	1.4	1.
All diseases of the nervous system and sense organs (330–398)	204	134	129	114	7.2		4.3	1.0
				114	1.2	4.6	4.3	3.
Diseases Rheumatic fever (400–402)	or the ch	40	system (400-468)	1.1	1 1 4	0.3	1 0.
Chronic rheumatic heart disease (410-416)	143	162	47	30	5.0	5.6	1.6	1.
Remainder of 400–468	88	61	68	43	3.1	2.1	2.3	1.
(400–468)	262	263	123	81	9.3	9.1	4.1	2.
Diseases								
Lobar pneumonia (490) Bronchopneumonia (491)	33 42	22 39	15 50	10 28	1.2	0.8	0.5	0.
Bronchitis (500–502)	13	20	14	7	0.5	0.7	0.5	0.
Remainder of 470–527	71	81	47	28	2.5	2.8	1.6	0.
(470–527)	159	162	126	73	5.6	5.6	4.2	2.
	of the d	igestive s	ystem (5	30-587)				
Appendicitis (550–553) Ulcerative colitis (572·2)	54	29 20	17	11	1.9	1.0	0.6	0.4
Ulcerative colitis (572·2)	51	37	14 37	11 25	0.3	0.7	0.5	0.
All diseases of the digestive system (530–587)	114	86	68	47	4.0	3.0	2.3	1.0
Diseases of							• •	
Nephritis and nephrosis (590–594) Remainder of 590–637	113	110	87 12	53	4.0	3.8	2.9	0.
All diseases of the genito-urinary system (590–637)	121	131	99	67	12	1 5	2.2	- Total
					4.3	4.5	3.3	2.
Deliveries and complications Deliveries and complications of pregnancy,	or preg	nancy, en	iidbirth a	and the pu	erperium	(040-089)	1
childbirth and the puerperium (640-689)	1725	110	10 mm	62	Brown Table	3.8	- To	2.
	enital ma	lformatio	ns (750-	-759)				
Congenital malformations of the circulatory system (754)	66	61	62	51	2.3	2.1	2.1	1.
Remainder of 750–759	34	21	34	17	1.2	0.7	1.1	0.
All congenital malformations (750–759)	100	82	96	68	3.5	2.8	3.2	2.:
		es (remai			mells	Town		
All other diseases (rem. 001–795)			93			4.6	3.1	2.:
All accidents, Motor vehicle traffic accidents (E810–E825)	poisonir 637	igs and vi	olence (1,302		350000000000000000000000000000000000000	2.4	11	A 01
Water transport accidents (E850-E858)	60	1	51	208	22 2 1	0.03	1.7	7.1
Accidental falls (E900–E904) Accidental drowning and submersion (E929)	62 93	5 7	66	8	2.2	0.2	2.2	0.
Suicide and self-inflicted injury (E970–E979)	130	49	75 170	77	3.3	0.2	2.5	0.
Remainder of E800–E999	348	72	320	70	12	2.5	11	2.
All accidents, poisonings, and violence (E800–E999)	1,330	233	1,984	367	47	8.0	67	12
	THE RESERVE TO A STATE OF THE PARTY OF THE P			The second second		The same of the same of		-

In the age-group 15–24 there were 4,261 deaths in 1960 (72 per 100,000) compared with 6,175 (108 per 100,000) in 1950, which is a reduction of one-third.

The greater part of this reduction has been concentrated in the deaths attributed to *tuberculosis* where the improvement in the adolescent and young adult has been just as remarkable as has been observed in the children. Deaths assigned to tuberculosis fell from 1,652 in 1950 to 28 in 1960. This represents a reduction of 98 per cent. In the case of *poliomyelitis* the reduction was from 165 deaths in 1950 to 13 in 1960, a reduction of 92 per cent.

Neoplasms accounted for 511 deaths compared with 513 in 1950 (rate for neoplastic deaths 8.6 per 100,000 persons in 1960 and 9.0 per 100,000 in 1950), thus remaining stable.

The more important sites of cancer at this age are the reticulo-endothelial system and the genitalia. Cancers of the kidney and of the brain have become less important while cancers of the lung, stomach, breast, prostate and bowel, which will cause many deaths later in life, have not yet assumed any importance.

Death rates at ages 15-24 per 100,000 population

and delivery of the control of the c	19	50	1960		
Cause of death	Males	Females	Males	Females	
Leukaemia	2.5	1.6	2.5	1.6	
Hodgkin's disease	1.1	0.6	1.7	0.8	
Brain tumours (malignant and non-malignant)	1.5	1.4	1.4	1.1	
Bone tumours	1.7	0.8	1.1	0.7	
Genital tumours	0.7	0.5	0.9	0.6	
All other neoplasms	3.3	2.2	2.9	1.8	
Total	10.8	7.1	10.5	6.7	

The constancy of these rates, when it is remembered that they are based upon small numbers, is quite remarkable, the only differences worthy of comment being a slight decline in bone tumours counter-balanced by a similar rise in Hodgkin's disease. This shift could well be explained by improved diagnosis.

Rheumatic fever has declined remarkably: acute rheumatic fever from 71 deaths in 1950 to 16 deaths in 1960, and chronic rheumatic heart disease, which is a function of previous morbidity, from 305 to 77.

Respiratory disease is not so important a cause of death as it is among the children but even here there has been steady improvement: 321 deaths in 1950 against 199 in 1960.

The experience of *appendicitis* is similar to that of the younger ages. It remains an occasional cause of death but deaths have fallen from 83 in 1950 to 28 in 1960.

The increase in deaths arising from *accidents* in this age group, especially among the males, is disappointing. It is also likely that as a result of improved facilities, especially neuro-surgical, and the availability of better antibiotics, the incidence of severe accidents will have risen more than the mortality figures would suggest.

Death rates at ages 15-24 per 100,000 population

-hua silush uit ni beratmoone esse	19	950	1960		
Cause of death	Males	Females	Males	Females	
Motor vehicle traffic accidents (other than	521 000	ni Jesa	of 98 per	achisbs	
motorcycles)	7·9 14·5	2.3	15·1 28·7	4·5 2·5	
Water traffic accidents	2.1	0.0	1.7	2 3	
Drowning	3.3	0.2	2.5	0.1	
Suicide	4.6	1.7	5.7	2.6	
Other causes	14.5	2.7	13.0	2.6	
All accidents and violent deaths	47.0	8.0	66.7	12.4	

In the decade, deaths due to violence between the ages of 15 and 24 increased by nearly 50 per cent and this increase was almost entirely attributable to *motor vehicle traffic accidents*. These accidents doubled during the ten years and it is observed that among males age 15–24 motor vehicles cause 42 per cent of all deaths attributable to all causes, and that two thirds of these deaths are due to motorcycle accidents. Since many individuals in this age-group will be too young to possess a driving licence and others with marital or family responsibilities will be less likely to expose themselves to unnecessary danger it can be deduced that the mortality among single males 17–21 must be very heavy.

Death by *drowning* also remains a common cause of death among males. The majority of these deaths are caused by immersion of occupants of small boats and by bathing accidents.

Suicide in the young adult is predominantly a male cause of death. This has always been the case but unfortunately there appears to be an increase in such deaths. The mode of death preferred by both males and females who commit suicide is poisoning by gases in domestic use; barbiturates and aspirin are not often effectively used by such individuals at these ages.

The adult age 25-44

Individuals reach full maturity at varying ages but certainly by 25 they have passed the stage of development and growth and have reached full possession of their powers. By the middle forties, however, they are passing into a new physiological state symbolised by the menopause in women but no less significant in the male.

The diseases that cause death in the adult age 25–44 are not essentially different from those of later life but they are different from those of adolescence and childhood. Diseases of the vascular system and neoplasms account for more than half of all deaths, but accidents remain an important part of total mortality.

Infectious diseases have been almost defeated. Tuberculosis mortality has fallen from 41·2 per 100,000 in 1950 to 4·1 per 100,000 in 1960, which represents a reduction of 90 per cent. All other infectious diseases accounted for only 189 deaths in 1960, of which syphilis contributed 42 and infectious hepatitis 33.

Table XLII—continued

State state and SWE Corolland		SE DI		Age	25–44			
a Han N	N	lumber o	f deaths		De	ath rate p	per 100,00	00
Cause and ICD No.	19	50	19	160	19	50	196	0
	Males	Females	Males	Females	Males	Females	Males	Female
Infective		asitic dis	eases (00	1–138)			n negati	
Tuberculosis, respiratory (001–008) Tuberculosis, other forms (010–019) Remainder of 001–138		2,368 148 261 2,777	228 34 113 375	203 31 76 310	41 3·4 5·8 50	36 2·2 3·9 42	3·8 0·6 1·9 6·2	3·3 0·5 1·2 5·1
Stamoch (151)	Neopla 384	sms (140 224	- 239) 228	148	5.8	3.4	3.8	2.4
Stomach (151) Large intestine (153) Rectum (154) Lung and bronchus (162, 163) Breast (170) Cervix uteri (171) Ovary, Fallopian tube and broad ligament	178 121 653 3	226 96 169 837 304	132 80 568 2	157 62 189 712 406	2·7 1·8 9·9 0·05	3·4 1·4 2·5 13 4·6	2·2 1·3 9·5 0·03	2·6 1·0 3·1 12 6·7
(175) Brain, malignant (193) Brain, non-malignant (223, 237) Hodgkin's disease (201) Leukaemia and aleukaemia (204) Remainder of 140–239 All neoplasms (140–239)	161 129 141 143 666 2,579	253 126 110 77 131 652 3,205	193 50 156 199 673 2,281	241 136 47 80 121 555 2,854	2·5 2·0 2·1 2·2 10 39	3·8 1·9 1·7 1·2 2·0 9·8 48	3·2 0·8 2·6 3·3 11 38	4·0 2·2 0·8 1·3 2·0 9·1 47
Diseases of the n Vascular lesions affecting central nervous	ervous sy	stem and	i sense o	rgans (33)	0-398)			
system (330–334)	390 498	466 418	473 340	503 285	5·9 7·6	7·0 6·3	7·9 5·7	8·3 4·7
All diseases of the nervous system and sense organs (330–398)	888	884	813	788	14	13	14	13
Diseases								
Rheumatic fever (400–402) Chronic rheumatic heart disease (410–416) Heart disease specified as involving coronary	54 700	1,116	394	594	0.8	17	0·07 6·6	9.8
arteries (420·1) Hypertension without mention of heart	989	149	1,672	210	15	2.2	28	3.4
(444–447)	112 644	61 581	188 406	80 342	1·7 9·8	0·9 8·7	3·1 6·8	1.5
All diseases of the circulatory system (400–468)	2,499	1,975	2,664	1,232	38	30	44	20
Diseases	of the res	spiratory	system (470-527)				
Lobar pneumonia (490) Bronchopneumonia (491) Bronchitis (500–502) Remainder of 470–527 All diseases of the respiratory system (470–	165 193 287 509	112 215 154 307	70 162 212 212	35 133 93 124	2·5 2·9 4·4 7·7	1·7 3·2 2·3 4·6	1·2 2·7 3·5 3·5	0·0 2·2 1·2 2·0
527)	1,154		656	385	18	12	11	6.:
Ulcer of stomach (540) Ulcer of duodenum (541) Ulcerative colitis (572·2) Remainder of 530–587 All diseases of the digestive system (530–587) Diseases of	161 220 52 402 835	40 26 85 309 460	56 84 24 211 375	22 13 36 174 245	2.5 3.3 0.8 6.1 13	0.6 0.4 1.3 4.6 6.9	0·9 1·4 0·4 3·5 6·2	0 · 0 · 0 · 2 · 4 ·
Nephritis and nephrosis (590–594)	486	423	300	158	7.4	6.4	5.0	2.
Remainder of 590-637	70	137	73	114	1.1	2.1	1.2	1.
(590–637)	556	560	373	272	8.5	8.4	6.2	4.
Deliveries and complications Deliveries and complications of pregnancy, childbirth and the puerperium (640-689) Cong	_	492	_	245	erperium	7.4	_	4.0
Congenital malformations of circulatory	1	1	1	1	00	1 10	1	
system (754) Remainder of 750–759 All congenital malformations (750–759)	142 71 213	126 61 187	68 62 130	64 34 98	2·2 1·1 3·2	1·9 0·9 2·8	$\begin{array}{ c c }\hline 1 \cdot 1 \\ 1 \cdot 0 \\ 2 \cdot 2 \\ \hline \end{array}$	1 · 0 · 1 ·
All other diseases (rem. 001-795)	461		293	316		9.2	4.9	5.
Motor vehicle traffic accidents (E810-E825)	848	119	1,022	224	13	1.8	17	3.
Water transport accidents (E850–E858) Accidental falls (E900–E904) Accidental drowning and submersion (E929)	59 207 112	28 19	48 155 95	1 23 24	0·9 3·2 1·7	0·4 0·3	0.8 2.6 1.6	0· 0· 0·
Suicide and self-inflicted injury (E970–E979) Remainder of E800–E999	637 898	369 148	764 669	435 190	9.7	5.5	13	3.
All accidents, poisonings and violence (E800–E999)	2,761	683	2,753	897	42	10	46	15
ALL CAUSES	15,251	12,620	10,713	7,642	232	190	179	125

Neoplasms account for about a quarter of all the deaths in this age range, but it is interesting that even in these diseases there has been a slight decline in deaths from 43.8 per 100,000 in 1950 to 42.5 in 1960. Within this slight change in total cancers there was concealed a significant change in the individual sites. Cancer of the gastro-intestinal tract declined from 1,515 deaths in 1950 to 1,072 deaths in 1960 (the rate per 100,000 persons in this age range was 11.5 in 1950 and 8.9 in 1960). Cancer of the stomach at these ages declined from 608 deaths to 376.

Cancer of the lung and bronchus was almost stationary in this age-group throughout the decade; in 1950 the rate was $6 \cdot 2$ per 100,000 persons while in 1960 it was $6 \cdot 3$. This figure does, however, conceal a shift in the incidence of the disease, since the male rate declined from $9 \cdot 9$ to $9 \cdot 5$ whereas the female rate increased from $2 \cdot 5$ to $3 \cdot 1$ per 100,000.

There was also a most disappointing increase in cancer of the *cervix uteri* at these ages, the deaths attributed to this cause rising from 304 deaths in 1950 to 406 deaths in 1960.

Within the general concept of *brain tumours* there was a decline, although within this group there was a shift from non-malignant and unspecified tumours to malignant tumours. It is difficult, however, to ascribe any real significance to this alteration as it seems probably to have been caused by improved diagnosis of malignant tumours of the brain.

The neoplasms of the reticulo-endothelial system showed an increase in the decade; the rates for both Hodgkin's disease and leukaemia rose.

Vascular disease begins to play an important role in the adult age range of 25-44, a role which dominates the next age of man.

Rheumatic heart disease has declined considerably during the decade 1950–60 from $13\cdot7$ per 100,000 to $8\cdot2$, and acute rheumatism almost disappeared as a cause of death, there being only 10 such deaths at this age in 1960. This has been of especial advantage to females as they were always more liable to die of valvular heart disease during the reproductive years.

There has, however, been a well marked increase in *coronary heart disease* which has been internationally observed. The death rate from this cause for males age 25-44 rose from $15\cdot 1$ per 100,000 in 1950 to $27\cdot 9$ in 1960, almost doubling itself. At the same time there was an increase in cerebral vascular accidents. Among males the rate rose from $5\cdot 9$ to $7\cdot 9$ and for females from $7\cdot 0$ to $8\cdot 3$ per 100,000.

Respiratory and gastro-intestinal diseases declined in importance at these ages. The mortality from peptic ulceration in particular fell from 447 deaths to 175; in the main this is likely to have resulted from improved medical care, rather than from a decline in morbidity from the disease.

Accidents remain an important cause of death among men of these ages; but the rates remain fairly constant, only motor vehicle traffic accidents showing any marked increase. It is to be noted, however, that there has been an increase of 30 per cent in the rate of *suicide* in this age range and that half of these deaths were due to gases in domestic use.

Middle age 45-64

It is impossible to decide what is the middle of life and here the term middle age is used to indicate that period of life that lies in the middle between the climacteric and the onset of senescence.

At this age the death rate begins to increase more steeply and the causes of death are similar to those of the older ages. *Neoplasms* account for 32 per cent of the deaths and *vascular disease* for over 40 per cent and it is at this age that the biological advantage of the female becomes most marked; the death rate for males is 13·4 per thousand and for females 7·2.

Infectious diseases in 1960 accounted for 2,142 deaths at these middle ages and of these 1,483 were due to tuberculosis. The decline in the tuberculosis death rate at these ages was not as dramatic as in the case of the younger population; nevertheless it was appreciable, falling from 55·2 per 100,000 in 1950 to 12·6 per 100,000 in 1960.

The neoplastic diseases are now typically those of later life. Cancer of the stomach accounted for 4,444 deaths, large bowel 4,089, breast 4,118, lung and bronchus 11,253 in 1960. The neoplasms of the gastro-intestinal tract show a steady decline over the decade and neoplasms of the breast remain constant, but there has been a startling increase in the neoplasms of the lung and bronchus. This is in marked contrast to the ages under 45 where there has been no such increase. In the 45–64 age-group, however, the death rate for males rose from 125 per 100,000 in 1950 to 176 in 1960, which represents an increase of 41 per cent. In the case of females the rate increased from 15 to 22 per 100,000, or an increase of 47 per cent. This increase in lung cancer deaths more than counterbalances those saved by the reduction in the tuberculosis death rate.

Vascular diseases became most important at these ages and in particular the male rate is more than double that of females at the same age; these rates are summarised below:

Vascular diseases—death rates at ages 45-64 per 100,000 population

Cause of death	M	ales	Females	
Cause of death	1950	1960	1950	1960
Vascular lesions of central nervous system	108	109	115	96
Coronary heart disease	251	366	67	96 92
Myocardial degeneration	62	16	47	13
All other vascular diseases	134	112	113	87
All vascular diseases	556	603	342	287

It will be seen that whilst the death rate for males from all vascular diseases has increased, that for females has decreased. It is also apparent that there has been a shift from other vascular diseases to the coronary heart disease. The change in coding between the 6th Revision and the 7th Revision of the International Statistical Classification of Diseases caused only a small transfer of the order of 2 per cent from myocardial degeneration into the coronary artery diseases, but there has been a decline in the male death rate attributable to myocardial degeneration from 62 per 100,000 to 16. A change in diagnostic

Table XLII—continued

	1			Age	ti (n) to be		L. Billiottes	
Cause and ICD No.	1	Number o	f deaths		D	eath rate	per 100,	000
Cause and ICD No.	1	950	1	960	1	950	1	960
	Males	Females	Males	Females	Males	Females	Males	Female
Infectiv	e and pa	rasitic dis	seases (0	01–138)	hipkin	bette 8	(Deab	
Tuberculosis, all forms (001–019) Remainder of 001–138 All infective and parasitic diseases (001–138)	837	1,389 423 1,812	1,166 410 1,576	317 249 566	90 17 108	25 7·6 32	21 7·3 28	5·1 4·0 9·2
	Neopl	asms (140)-239)					
Stomach (151)	2,976	1,648 1,535	3,038	1,406 1,431	61 23	29 27	54 20	23 23
Rectum (154)	1,095	755	894	646	23	13	16	10
Breast (170)	23	3,546 1,370	18	4,100	0.5	63 24	0.3	66
Ovary, Fallopian tube and broad ligament				1	1 11 6	no and		
(175)	451	1,360	441	1,537	9.3	24	7.8	25
Lung and bronchus (162, 163)	6,059 5,225	866 4,461	9,911 6,029	1,342 4,779	125 108	15 80	176 107	22
All neoplasms (140–239)	16,962	15,541	21,449		349	277	381	266
Diseases of the	nervous s	ystem an	d sense o	organs (33)	0-398)			
Vascular lesions affecting central nervous	1 5 250	6.150	6 155	5026	100	115	100	96
system (330–334)	5,250	6,450 785	6,155 770	5,936 781	108	115	109 14	13
All diseases of the nervous system and sense organs (330–398)	6,069	7,235	6,925	6,717	125	129	123	109
SAOT ASSESSED TO REAL PROPERTY OF	of the of			(400, 460)	ial 24	diff a		in the
Chronic rheumatic heart disease (410–416)	1,571	2,475	1,165	(400–468) 1,976	32	1 44	21	32
Heart disease specified as involving	la vani	Lanna an	t and	A STATE OF THE PARTY OF THE PAR		50 BIT		None to
coronary arteries (420·1) Arteriosclerotic heart disease (422·1)	12,206	3,765 695	20,585	5,671 272	251 18	67	366 6·7	92 4.4
Degenerative heart disease (422·2)	2,049	1,800	525 451	474 289	42 4.1	32 2.3	9.3	7.7
Hypertensive heart disease (440-443)	1,782	1,568	1,021	739	37	28	18	12
Other hypertensive heart disease (444–447) General arteriosclerosis (450)	532	391 264	1,040 239	608	11 10	7.0	18 4.2	9.9
Remainder of 400–468	2,059	1,642	2,390	1,621	42	29	42	26
All diseases of the circulatory system (400–468)	21,770	12,728	27,795	11,802	448	227	494	191
Diseases	of the re	enirotory	system (470 527)				
Lobar pneumonia (490)	763	348	483	218	16	6.2	8.6	3.5
Bronchopneumonia (491)	1,011	755	1,158	855	21	13	21	14
Bronchitis (500–502)	5,253 2,094	1,413	5,568 1,496	1,107	108 43	25 15	99 27	18 8.3
All diseases of the respiratory system (470–527)	9,121	3,332	8,705	2,690	188	59	155	44
							100	
Ulcer of stomach (540)	875	igestive s	ystem (5 434	147	18	4.1	7.7	1 2.4
Ulcer of duodenum (541)	853	128	545	114	18	2.3	9.7	1.8
Remainder of 530–587	1,459 3,187	1,535 1,894	1,364 2,343	1,243	30 66	27 34	24 42	20 24
Diseases of	the geni	to-urinar	v evetom	(500_637)				
Nephritis and nephrosis (590–594)	1,035	949	678	502	21	17	12	8.1
Remainder of 590–637	705	412	519	482	15	7.4	9.2	7.8
(590–637)	1,740	1,361	1,197	984	36	24	21	16
All oth	er diseas	ses (remai	nder 001	1–795)				
All other diseases (rem. 001–795)	1,854	2,644	1,376	1,831	38	47	24	30
All accidents	, poisonii	ngs and vi	olence (E800-E99	9)			
Motor vehicle traffic accidents (E810–E825)	583	229	1,058	489	12	4.1	19	7.9
Accidental falls (E900–E904) Accidental drowning and submersion (E929)	285 132	156 65	341 161	179 66	5.9	2.8	6.1	2.9
Suicide and self-inflicted injury (E970–E979) Remainder of E800–E999	1,285 994	776 275	1,390 943	1,001 426	26 20	14 4.9	25 17	16 6.9
All accidents, poisonings and violence								
(E800–E999)	3,279	1,501	3,893	2,161	67	27	69	35
ALL CAUSES	69,209	48,048	75,259	44,651	1,424	858	1,337	723

criteria, rather than a real decrease in the incidence of the disease, appears responsible since the shift to coronary heart disease is characteristic of both sexes at this age-group and does not result from coding techniques. Consequently it remains difficult to say how much of the increase in coronary heart disease is real and how much is an artefact of diagnostic fashion.

Violence accounted for no more than 5 per cent of deaths at these ages and about a third of these violent deaths are due to suicide and no more than a quarter to motor vehicle traffic accidents.

Retirement age 65-74

In modern society 65 is usually accepted as the chronological age for retirement, irrespective of biological vigour. Age 65 therefore appears to be the most suitable at which to make an arbitrary division for statistical analysis.

In the first ten years of retirement, neoplasms account for 22 per cent of deaths, proportionately rather less than in middle age, but vascular diseases account for about half of all deaths.

Infectious diseases account for 1,435 deaths of which 931 were attributed to tuberculosis.

Neoplastic diseases caused 29,667 deaths and of these the site of the disease was as follows: stomach 4,582, large bowel 4,481, lung and bronchus 7,047, breast 2,211 and prostate 1,288.

It is in this age range that the deaths from lung cancer have shown the most marked increase over the decade; for males the death rate per 100,000 has gone up from 203 in 1950 to 432 in 1960, and the female rate from 34 to 46.

Thus the male deaths from cancer of the lung at these ages have doubled in a decade, resulting in an extra 3,303 deaths in this one age-group, whereas the saving of the tuberculosis deaths at this age was only of the order of 600 lives.

Vascular diseases are the most important cause of death at ages over 65.

Vascular diseases—death rates at ages 65-74 per 100,000 population

C. C. L. A.	Ma	ales	Females		
Cause of death	1950	1960	1950	1960	
Vascular lesions of central nervous system Coronary heart disease	702 872 641 590	671 1,292 249 525	642 412 507 452	559 569 186 400	
All vascular diseases	2,805	2,738	2,013	1,714	

Here again there is a marked shift from myocardial degeneration to coronary heart disease which is apparent in both sexes and which appears to be semantic in origin. Changes in coding techniques can only account for an alteration of approximately 2 per cent. At these ages the total death rate from vascular diseases has declined in both sexes. So it seems not unreasonable to conclude that at these ages there has been no true increase in coronary heart disease but that an artefact of change in medical diagnosis has brought about a statistical change.

At these ages violence accounts for 2 per cent of all deaths and of these, falls by women is an important item.

		MCD STATE		Ag	ge 65–74	-0380	TU3 312	10/20
Cause and ICD No.	71.3%	Number	of death	ns	I	Death rate	e per 100	0,000
	1	1950		1960	1	1950	1	960
g nedt som er bee skilies o	Males	Female	Males	Female	Males	Female	Males	Female
		arasitic di						
Tuberculosis, all forms (001–019) Remainder of 001–138 All infective and parasitic diseases (001–138)	1,297 489 1,786	281	734 309 1,043	195	35	24 15 39	52 22 74	9.
Stomach (151)		lasms (14	The Park of the Pa	1 1 075		1 125	1 105	
Large intestine (153) Rectum (154) Breast (170) Cervix uteri (171) Ovary, Fallopian tube and broad ligament	2,878 1,573 1,403 20	1,799 827 1,936 617	2,607 1,103 1,014 23	1,583 781 2,188 581	114	34	185 78 72 1.6	28
(175) Prostate (177) Lung and bronchus (162, 163) Remainder of 140–239 All neoplasms (140–239)	1,258 2,795 4,475 14,402	602 627 3,810 12,520	1,288 6,098 4,468 16,601	949 4,300	91 203 324 1,044	$\frac{33}{34}$ 207 680	91 432 316 1,175	34 46 207 628
Diseases of the Vascular lesions affecting central nervous	nervous s	system an	d sense	organs (3	30–398)	needle -	, inches	
system (330–334)	9,694 698	11,813 795	9,484 581	11,633 726	702 51	642 43	671 41	559 35
	10,392	12,608	10,065	12,359	753	685	712	594
Diseases Chronic rheumatic heart disease (410–416)		rculatory	system 517			1 87	37	52
Heart disease specified as involving coronary arteries, (420·1) Arteriosclerotic heart disease (422·1)	12,030 3,485	7,579 3,328	18,263 1,837	11,851	872 253	412	1,292	569
Degenerative heart disease (422·2) Congestive heart failure (434·1) Hypertensive heart disease (440-443) Other hypertensive heart disease (444-447) General arteriosclerosis (450) Remainder of 400-468	5,301 250 2,822 587 1,604 1,907	5,877 225 2,834 592 1,214 1,987	1,674 744 1,579 817 899 2,876		384 18 204 43 116 138	319 12 154 32 66 108	118 53 112 58 64 204	89 95 38 93 40 44 135
All diseases of the circulatory system			and the second	24,045	ALCOHOL P.	1,371	2,067	1,155
Diseases	of the re	spiratory	system	(470–527)				-
Lobar pneumonia (490) Bronchopneumonia (491) Bronchitis (500–502) Remainder of 470–527 All diseases of the respiratory system	1,348 5,928 1,487	432 1,186 2,912 895	453 2,068 6,587 1,416	335 1,808 1,908 567	46 98 430 108	23 64 158 49	32 146 466 100	16 87 92 27
(470–527)	9,397	5,425	10,524	4,618	681	295	745	222
Ulcer of stomach (540) Ulcer of duodenum (541) Remainder of 530-587	629 511 1,255	272 111 1,498	476 533 1,234	252 151 1,553	46 37 91	1 6.0 81	87	12 7·3 75
All diseases of the digestive system (530–587)	ORE	1,881	2,243	1,956	174	102	159	94
Diseases of Nephritis and nephrosis (590–594)	the geni	to-urinar	y system 401	(590–63)	7) 59	49	28	19
Remainder of 590-637 All diseases of the genito-urinary system	1,934	355	1,225	530	140	19	87	25
(590–637)	2,750	1,255	1,626	925	199	68	115	44
		es (remai 3,102		1–795) 2,370	139	168	93	114
All accidents,		ngs and vi	iolence (E800-E9	99)			
Motor vehicle traffic accidents (E810–E825) Accidental falls (E900–E904) Accidental drowning and submersion (E929) Suicide and self-inflicted injury (E970–E979) Remainder of E800–E999	323 252 99 574 297	155 423 29 281 228	424 293 61 465 264	361 532 33 387 303	23 18 7·2 42 22	8·4 23 1·6 15	21 4·3 33	17 26 1·6 19
All accidents, poisonings and violence (E800–E999)	1,545	1,116	1,507	1,616	112	61	19	15 78
The state of the s	73,592		74,127	61,347	5,333	3,470	5,246	2,947

Table XLII—continued

				Age 75 a	nd over			
Cause and ICD No.	1	Number o	of deaths		De	eath rate	per 100,0	000
Cause and ICD No.	19	950	1	960	19	950	19	960
encommed for 43 por cent of all	Males	Females	Males	Females	Males	Females	Males	Female
Infactiv	e and na	rasitic dis	03505 (0)	01_138)	U.S. Kirak Ja	MAN COLUMN		ESISTE .
Tuberculosis, all forms (001–019) Remainder of 001–138	270 233	173 219 392	313 202 515	148 213 361	44 38 82	18 23 41	45 29 75	12 17 28
		asms (140					STRUCK	MONEY!
Stomach (151) Large intestine (153) Rectum (154) Breast (170) Cervix uteri (171) Ovary, Fallopian tube and broad ligament	1,764 1,431 1,077 19	2,254 2,267 855 1,603 361	1,966 1,253 1,039 20	2,576 2,273 954 2,053 456	289 235 177 3·1	236 237 89 168 38	285 182 151 2·9	202 179 75 161 36
(175)	1,381 733 3,339	268 320 3,041	1,920 2,299 3,760	453 634 4,460	226 120 547	28 33 318	278 333 545	36 50 350
All neoplasms (140–239)	9,744	10,969	12,257	13,859	1,597	1,146	1,776	1,089
Diseases of the r	nervous s	ystem and	d sense o	rgans (33	0-398)	85 G# 36		lgoon
Vascular lesions affecting central nervous system (330–334)	11,767 585	18,748 735	14,804 525	27,072 849	1,929 96	1,959 77	2,146 76	2,127 67
sense organs (330–398)	12,352	19,483	15,329	27,921	2,025	2,036	2,222	2,193
Diseases				400–468)				
Chronic rheumatic heart disease (410–416) Heart disease specified as involving	767	1,535	342	964	126	160	50	76
coronary arteries (420·1) Arteriosclerotic heart disease (422·1) Degenerative heart disease (422·2)	8,372 7,893 12,925	7,884 11,063 21,227	15,286 6,181 7,168	16,920 11,166 13,282	1,372 1,294 2,119	824 1,156 2,218	2,215 896 1,039	1,329 877 1,043
Congestive heart failure (434·1) Hypertensive heart disease (440–443) Other hypertensive heart disease (444–447) General arteriosclerosis (450)	304 2,676 801 3,591	424 3,745 946 4,408	1,403 2,034 1,070 3,510	2,161 3,907 1,892 5,313	50 439 131 589	391 99 461	203 295 155 509	170 307 149 417
Remainder of 400–468	1,598 38,927	2,291 53,523	3,392 40,386	5,493	6,381	239 5,593	492 5,853	432
Diseases	of the re	spiratory	system (470-527)				
Lobar pneumonia (490)	480 2,068 5,719 1,323	549 2,864 5,931 1,720	554 4,887 6,321 1,361	716 6,823 4,172 1,402	79 339 938 217	57 299 620 180	80 708 916 197	56 536 328 110
All diseases of the respiratory system (470–527)		11,064 ligestive s			1,572	1,156	1,902	1,030
Ulcer of stomach (540)	361	297	518	562	59	31	75	44
Ulcer of duodenum (541)	252 1,156 1,769	106 1,661 2,064	510 1,371 2,399	272 2,442 3,276	190 290	11 174 216	74 199 348	21 192 257
Diseases of	the geni	ito-urinar	y system	(590-637	7)			
Nephritis and nephrosis (590–594) Remainder of 590–637	3,427	952 388	478 2,940	555 849	143 562	99	69 426	67
All diseases of the genito-urinary system (590-637)	4,298	1,340	3,418	1,404	705	140	495	110
Symptoms, sen	ility and	ill-define	d conditi	ions (780-	-795)	sh dona		reitor
Senility without mention of psychosis (794) Ill-defined and unknown causes of mortality (795)		5,683	2,174	4,559	547	594	315 0·1	358
Remainder of 780-795 Symptoms, senility and ill-defined condi-	3,378	38	62 2,237	76 4,639	554	1/0	9·0 324	
All oth	er diseas	ses (rema						ceide
All other diseases (rem. 001–795)	1,366	2,721	1,350	3,385		284	196	266
All accidents Motor vehicle traffic accidents (E810–E825) Accidental falls (E900–E904)	266 695	191 1,908	465 978	2,788	99)	20 199	67 142	31 219
Accidental drowning and submersion (E929) Suicide and self-inflicted injury (E970–E979) Remainder of E800–E999	72 257 205	19 110 354	49 265 352	20 151 577	12 42 34	2·0 11 37	7·1 38 51	
All accidents, poisonings and violence (E800–E999)	1,495	2,582	2,109	3,925	245	270	306	308
ALL CAUSES	83,422	109,861	93,123	132,981	13,676	11,480	13,496	10,446

Old age-75 and over

It is difficult to determine when senescence begins, even more so than to establish puberty or menopause. Yet there comes an age when minor illness can cause major disability and death. This may be taken as occurring before age 80 so that 75 is a reasonable age of demarcation. Nevertheless, in 1960 there were 226,104 deaths over the age of 75 which accounted for 43 per cent of all deaths and consequently the deaths at these advanced ages greatly influenced the general picture of mortality in this country.

Infectious diseases accounted for 876 deaths of which 461 were due to tuberculosis.

Neoplasms account for no more than 12 per cent of the deaths at these older ages, not because there was any decline in the neoplastic death rate but because other rates increased more sharply. Numbers of deaths in the principal sites of the neoplasms were stomach 4,542, large bowel 5,519, lung and bronchus 2,933, breast 2,073, and prostate 1,920. The increase in the rate for deaths from lung cancer more than accounted for the total increase in the death rate for all neoplasms at these ages and in fact the mortality from most of the other sites of cancer declined slightly. The rate for cancer of the lung, however, increased for males from 120 to 333 per 100,000 and for females from 33 to 50 per 100,000 between 1950 and 1960. The male rate almost trebled and there was almost no compensatory saving of lives from tuberculosis.

Vascular diseases accounted for over 60 per cent of all the deaths at these ages.

Vascular diseases—death rates at ages 75 and over per 100,000 population

Cause of death	Ma	ales	Females		
Cause of death	1950	1960	1950	1960	
Vascular lesions of central nervous system	1,929 1,372 3,420 1,589	2,146 2,215 1,935 1,702	1,959 824 3,385 1,382	2,127 1,329 1,923 1,547	
All vascular diseases	8,310	7,999	7,552	6,926	

Once again there is the marked shift in deaths to coronary heart disease from myocardial degeneration. If these two causes are taken together, there has been a decrease in the death rate from cardiac disease at these older ages for both males and females.

There has been some increase in vascular disease of the central nervous system.

Accidents are an important cause of death, especially falls which account for 3,766 at these ages, whereas suicide accounts for 416 and motor vehicle accidents 854.

Individual causes of death

Infectious diseases

The crude death rate from all infectious diseases has continued to fall and even in one year between 1959 and 1960 there was a 9 per cent decline from 13.5 per 100,000 persons living to 12.3 per 100,000. This rate has been falling

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for many years. In 1940 the death rate per 100,000 was 100.9, by 1950 it had more than halved to 47.0, but by 1960 it was further reduced by another three quarters to 12.3. It is apparent that even if this rate continues to fall at a rate of ten per cent per annum its relative effect on total mortality has now become small.

Tuberculosis has always been the most prominent of the diseases allocated to the statistical group of infectious diseases as rheumatic fever, pneumonia, gastro-enteritis and many other diseases of bacterial and viral origin are allocated by the International Statistical Classification to the organ system which they infect and not to the infectious diseases section.

The tuberculosis death rate continues to fall, the death rate from tuberculosis in 1960 being only 7.5 per 100,000 persons which may be compared with a rate of 8.5 in the previous year or 36.4 in 1950. It is interesting to note, however, that at certain ages and with certain manifestations of the diseases the fall has been even greater.

Death rates per 100,000 population

DAW 3855 8113	Re	espiratory	tuberculo	sis	Tı	berculous	s meningit	is
Age	Males		Fen	nales	Ma	les	Females	
	1950	1960	1950	1960	1950	1960	1950	1960
0-1* 1-4 5-14 15-24 25-44 45-64 65-74 75 and over	7·8 2·9 0·8 15·7 41·2 86·5 89·1 41·1	0·1 0·2 3·8 19·7 49·2 43·6	5·6 2·2 1·1 31·9 35·6 22·1 21·2 14·4	0.8 0.2 0.1 0.3 3.3 4.3 7.7 9.1	$ \left. \begin{array}{c} 6 \cdot 1 \\ 11 \cdot 3 \\ 3 \cdot 2 \\ 2 \cdot 0 \end{array} \right. $	0·5 0·3 0·1 0·1	8.9 12.3 3.1 3.1 0.4	0·3 0·3 0·1 0·2

^{*} Per 100,000 live births.

Tuberculous meningitis has almost been eliminated as a cause of death although with a large reservoir of infection still existing in the adult population it remains a serious danger to be carefully watched.

Respiratory tuberculosis has been greatly reduced at the younger ages, especially among women, but there still remain many individuals infected in the inter-war period who will develop complications and may die of the disease during the next twenty years. Nevertheless, with the suppression of the disease among the younger ages and its successful treatment in the early stages, it is possible to foresee a time when the disease will have been eliminated in this country as effectively as smallpox or cholera, but the need for vigilance as with all other infectious diseases will remain.

Syphilis. The decline in deaths attributed to syphilis continues but at a much slower rate than with tuberculosis. This is mainly because the clinical progress of this disease is even longer and slower than with tuberculosis and the majority of the deaths are due to tertiary syphilis of the cardiovascular system or to chronic effects on the central nervous system. It is not unreasonable to expect the decline to continue because in 1950, when the death rate from

syphilis was 3.4 per 100,000, the proportion of persons dying over the age of 65 was only 46 per cent whereas in 1960, when the rate was 2.1 per 100,000, the proportion over the age of 65 was 62 per cent.

To some extent this age increase is an artefact of the Seventh Revision of the International Statistical Classification as a result of which aneurysms of the abdominal aorta of unspecified origin are allocated to the class of aortic aneurysm rather than attributed as formerly to a syphilitic origin. The definition of neuro-syphilis, however, remains unchanged and this change in the older ages is also present in these diseases.

The acute bacillary infections of the gastro-intestinal tract have remained fairly constant at about 80 deaths a year for the last seven years; about half of these are due to salmonella infections and one quarter due to bacillary dysentery.

1960 was remarkable in that it was the first year since death records were initiated in which no death was recorded from *scarlet fever*, although 8 deaths were reported in which scarlet fever occurring more than one year before death was a contributory factor.

Diphtheria unfortunately recurred after a nil return the previous year and there were 5 deaths.

Meningococcal infections continued to be a serious cause of death among children although the rate continued to decline. There were 95 deaths assigned to this cause.

Poliomyelitis has declined as a cause of death but as it is markedly epidemic in behaviour it is impossible to attach great significance to the results of a single year. Since 1957 the deaths attributed to poliomyelitis have been declining as shown below; this is co-incident with the introduction of Salk vaccine.

Deaths attributed to poliomyelitis. All ages, persons

	Y	ear		Acute poliomyelitis	Late effects of poliomyelitis
1956	d as	electe	nile	114	23
1957		TITLE X		226	29
1958			d	129	25
1959				66	21
1960	1.0.			23	23

Among other viral infections there are two prominent causes of death: acute infectious encephalitis and infectious hepatitis.

Acute infectious encephalitis has tended to remain steady and for a decade the number of deaths assigned to this cause have fluctuated randomly about a mean number of 108 deaths per annum, but those deaths attributed to the late effects of acute infectious encephalitis have declined.

Infectious hepatitis has also remained fairly constant at a level of about 275 deaths in the year, and although there appears to have been an outbreak in 1960 which raised the level above 300 deaths for the first time, this is still within the limits of annual random fluctuation and may not indicate a rising trend in the disease.

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Neoplasms

In the year 1960 malignant neoplasms, including the reticuloses, accounted for 98,788 deaths, giving a death rate of 216 per 100,000 persons living. This rate has increased steadily by about 1 per cent per annum for the last ten years, as is shown in the figures in the table below, and in Table 8 of Part I and Table LXXXI.

But this rate has a marked sex difference; the female rate is 194 and the male rate 239, a male/female sex ratio of 1·23. Also the female crude rate has been rising only slightly whereas the male crude rate has risen by 16 per cent in the decade. When the rates are standardised to allow for the increasing age of the population, as has been done in Table LXXXI, the Standardised Mortality Ratio for deaths due to cancer among females has actually fallen from an average of 100 in the three years 1950–52 to 97 in 1960, but the male rate has increased from 100 in 1950–52 to 108 in 1960.

Standardised Mortality Ratios (1950-52 = 100), 1960

	Si	ite of c	ancer					Males	Female
ites where the ratio ha	s incre	ased			100				adearerrie
Brain—malignant	SHEET OF			40.0		30.00		136	146
Kidney		9						106	109
Bladder				100.9	M. VIII	Tanada	9111	109	106
Prostate			011.00		61.01	3773	100	110	this - o
Ovary								NUMBER OF THE PROPERTY OF	107
Lung and bronchus								153	132
Hodgkin's disease			MALION	24.00		autore	1001	106	125
Leukaemia	3				00.00			134	124
Pancreas								115	111
ites where the ratio ha							DIN 1	O Donallo	00
Lip, tongue and bucc	cal cav	ity						63	89
Pharynx						20.00	11.00	73	96
Oesophagus								79	102
Stomach	13500					20.01		88	81
Intestine (large)	die	7	0	routeri		01.00	1000	78	82
Rectum Cervix uteri	mini-	mil	besided	one u	and o	als: ·os		77	86
								49	90
Corpus uteri Brain—non-malignar	· · ·				HOUGH	100.00		57	92
Bone		of the	Piliay	early	air H	Bonil	noi.	72	71 71
					•••			12	/1
20110							Carl () (100) ()		
all malignant sites excl	uding	lung a	nd broi	nchus		dicto		93	95

This small increase in the total male rate has been very variable in its distribution. All cancer of the gastro-intestinal tract declined except the primary carcinomas of the pancreas and it seems not unreasonable that this one increase may be partially attributable to increased accuracy of diagnosis.

If the rates of 1950-52 had prevailed in 1960 then approximately 6,500 more deaths from cancer of the gastro-intestinal tract would have occurred.

In the case of female genital organs there was a reduction in cancers of the cervix but an increase in those of the ovary.

An increase in malignant neoplasms of the brain was to some extent countered by a decrease in the unspecified neoplasms of the brain (ICD No. 237) and hence may be attributable to improved diagnostic facilities. The Standardised Mortality Ratio for all neoplasms of the brain has shown a small increase in the decade and is 104 for males and 110 for females in 1960.

There were, however, increases in cancer of the urinary tract, leukaemias and Hodgkin's disease, and in cancer of the lung and bronchus. The Standardised Mortality Ratios show that, if cancer of the lung and bronchus is excluded, there was an overall reduction in cancer mortality during the decade. This applied to men as well as to women.

At age 54 and under there has been very slight change in the total cancer death rate (excluding lung cancer) during the decade but for ages 55 and over there has been an improvement in these death rates.

Such a decline in death rates, however, may be attributable either to a decline in incidence of the disease or a decline in the case fatality rate or to a combination of both. In the present state of knowledge of the incidence of cancer in this country it is impossible to state which of these possibilities is of the greater importance.

Leukaemia

Table 10 of Part I indicates that at the younger ages under 25 there has not been an increase in the mortality rate but that the increase which has affected the Standardised Mortality Ratio for leukaemia is mainly accounted for by an increase in deaths over the age of 65. In view of changes in the definitions of the sub-divisions of leukaemia in the Seventh Revision of the International Statistical Classification it is not possible to distinguish the various types of leukaemia involved but between 1958 and 1960 there has been a considerable increase in the rate of acute leukaemia. The problem of leukaemia was discussed more thoroughly in the 1956 Commentary and in a paper based upon these figures published by the Medical Research Council.*

Allergic and endocrine diseases

During the decade steroids became more widely used in medical practice and this may be the reason for the reduction of the death rate due to *asthma* by a half although it has also been suggested that improved diagnosis has accounted for some of this reduction.

Thyrotoxicosis also declined in the early years of the decade but has remained constant for the last 5 years.

Diabetes has shown a decline until the last year when there was a sudden increase in deaths attributable to this disease of the order of 10 per cent, an appreciable rise for which there is no apparent simple explanation. In 1960 there were 366 more deaths from this cause than in 1959. Of this increase 292 deaths related to persons in the over 65 age-groups. Yet the rise at the younger

ages was greater as a percentage increase although the absolute figures were small. Under the age of 45 deaths attributed to diabetes rose from 154 in 1959 to 186 in 1960.

Vascular diseases

Vascular lesions of the central nervous system. A slight rise in the death rates over a period of years from these diseases is entirely attributable to the increasing age of the population and the Standardised Mortality Ratio for this group as a whole has remained constant. These are diseases where it is sometimes considered that the female rate is higher than the male and this is apparently supported by the crude rates for males of 140 per 100,000 and for females, 191. At almost every age, however, the male rate is slightly higher than the female rate although the difference is small and the large differences in crude rates are due to the large female population at higher ages.

Vascular lesions of the central nervous system death rates per 100,000 population, 1960

Age		Male	Female	
1–14	- 191	0.7	0.5	
15–24		1.3	1.3	
25-44		7.9	8.3	
45-64		109	96	
65-74		671	559	
75 and over		2,146	2,127	
All ages		140	191	

There is a distinction to be noted, however, between subarachnoid haemorrhages and cerebral haemorrhage or thrombosis. Subarachnoid haemorrhages account for only 3,447 deaths or 5 per cent of the group of vascular lesions of the central nervous system, but this is very unevenly divided and at ages under 45 subarachnoid haemorrhages account for more than half of all these deaths.

Vascular lesions of the central nervous system, 1960 Persons

Age		All vascular lesions deaths	Subarachnoid haemorrhages deaths	Subarachnoid haemorrhages as a percentage of all vascular lesions	Death rate per 100,000 population for subarachnoid haemorrhages
0–24	etidos:	162	109	67	0.7
25-44		976	508	52	4.2
45-64		12,091	1,657	14	14
65-74	900 100	21,117	703	3	20
75 and over		41,876	470	1	24
All ages		76,222	3,447	4.5	7.5

Thus subarachnoid haemorrhage remains a risk throughout life from the youngest ages and does not increase so steeply with age, whereas cerebral haemorrhage and thrombosis is almost entirely a disease of old age.

^{*} Court Brown, W.M., Doll, R. and Bradford Hill, A. (1960). *Brit. med. J.*, vol. II. pp. 1539–1545.

Cardiovascular diseases

In the year 1960 there were 198,563 deaths attributed to diseases of the circulatory system (ICD Nos. 400–468), which represented an increase of 6,731 deaths over the previous year when there were 191,832. It is important, however, to remember that, allowing for age and sex, there has been a steady decline in deaths for females and no increase in the male death rate during the past decade and that the 1960 experience did not raise the Standardised Mortality Ratios to the level of 1958.

Standardised Mortality Ratios (1950–52 = 100)

essa el	All cardio disea Year ICD Nos.		ses	Arterios heart d ICD N	isease	Other my degener ICD N	ations	
110000			M	F	M	F	М	F.
1950			98	102	94	96	102	104
1951			104	105	101	100	108	109
1952			97	93	105	103	90	88
954			95 97	92 90	104 112	103	84	85
934	Bith		91	90	112	108	80	79
955			98	92	116	115	79	78
956			99	91	121	119	75	74
957			95	86	122	119	65	64
958			98	89	129	129	65	66
959			94	85	128	130	57	60
960			96	86	137	138	53	57

But this decline in the total rate conceals a large difference in the types of vascular diseases that are being diagnosed. From the above table it is at once apparent that in the course of a decade there has been a considerable increase in deaths attributable to arteriosclerotic heart disease and an equally large (or even larger) drop in deaths attributable to other myocardial degeneration. This has not been caused by differences in statistical coding as there have been no important changes in this section of the International Classification of Diseases. It may be due either to an important change in the diseases causing death or due to a gradual semantic change over the years by which a clinical entity of essentially unknown actiology may be given a different name. "Myocardial insufficiency" or "myocardial degeneration" were popular diagnoses for those sudden deaths attributable to a disease of the heart but whose precise aetiology is unknown. These would be coded to ICD No. 422. A decade later the term "coronary heart disease" or "coronary infarct" is a more popular expression, which is correctly coded to ICD No. 420, but there is little evidence that there has been a large increase in coronary heart disease as such.

Among functional heart diseases there has also been a movement of attribution from hypertensive heart disease, ICD Nos. 440-443, to other heart diseases, ICD Nos. 430-434. Once again the crux of the matter is whether the certifying medical practitioner mentions the presence of hypertension. Hypertensive heart disease is coded to ICD No. 440, but congestive heart failure to ICD No. 434.1 and cor pulmonale to ICD No. 434.5. There was an alteration in

coding in 1952 which caused a considerable number of deaths to be assigned to hypertension without heart disease instead of to hypertensive heart disease and consequently the following table only goes back to 1952:

Standardised Mortality Ratio (1950–52 = 100)

Year	Hypertensi disea ICD Nos.	ise	Hypertensic heart of ICD Nos.	disease	Other diseases of heart ICD Nos. 430–434	
	М	F	М	F	М	F
1952	74	75	147	147	106	103
1953	75	76	149	147	115	109
1954	79	79	143	148	128	110
1955	80	85	140	147	131	117
1956	79	83	131	136	133	124
1957	74	79	121	125	145	131
1958	69	78	121	122	143	144
1959	61	73	112	111	137	141
1960	61	70	105	104	144	145

Respiratory diseases

Respiratory diseases have a cyclical variation influenced partly by the weather and partly by the incidence of influenza epidemics. As already mentioned, 1960 was a fortunate year in that there was no epidemic influenza and a mild winter. Only in 1952 and 1954 has a lower death rate from respiratory diseases been recorded.

Respiratory diseases, however, remain an important cause of mortality in this country and even in this year accounted for 56,955 deaths.

These were distributed as follows:

				attri	Male	Female
Upper respiratory tr	act infection	on .			68	57
Influenza					553	545
Lobar pneumonia					1,635	1,357
Bronchopneumonia					9,374	10,440
Acute bronchitis	Maria .			100.00	1,149	1,164
Chronic bronchitis					17,081	5,612
All other respiratory	diseases.	into l	•	nop taken	4,973	2,947
Total respiratory sys	tem diseas	es		200.200	34,833	22,122

The acute infections and bronchopneumonia continue to have an equal distribution between males and females. But chronic bronchitis continues to have the well-known male predominance which has shown no tendency to fall.

Gastro-intestinal diseases

Only 15,416 deaths occurred which were attributed to diseases of the gastro-intestinal tract. A third of these were due to ulceration.

Peptic ulcers. During an era when the facilities for medical treatment, blood transfusion and gastric surgery have increased enormously it is important to note that the death rate cannot be considered to remain a constant proportion

of the incidence of the disease. It is surprising to observe that the female death rate for duodenal ulcers has increased and that for gastric ulcers the decline is slight. For males, on the other hand, the mortality rate has declined by one quarter for duodenal ulcers and by one half for gastric ulcers. There still remains a large male predominance in the absolute rates but the male/female ratio is falling rapidly as the female rate approaches the male rate.

A study of the age distribution of the deaths attributed to peptic ulceration in 1950 and in 1960 reveals an interesting alteration in distribution.

The death rate at ages under 65 has declined almost to a half of what it was a decade ago and at the same time the death rate at ages over 75 has increased by 50 per cent.

It seems highly improbable that deaths at the older ages have increased by this amount and it appears that what is in fact happening is an improvement in diagnosis. Since it is possible nowadays to save even the elderly who suffer a severe haematemesis and melaena, every endeavour is made to differentiate malignant from other non-malignant causes of gastro-intestinal bleeding. This shows that many of these cases are due to non-malignant ulcers.

Peptic ulcers—death rates per 100,000 population, 1950 and 1960

Age	M	ale	Ratio	Fen	Ratio	
Age	1950	1960	1960/1950	1950	1960	1960/1950
25–44	5·8 35·6 82·6 100·5	2·3 17·4 71·4 149·0	0·40 0·49 0·86 1·48	1·0 6·4 20·8 42·1	0·6 4·2 19·4 65·5	0·60 0·66 0·93 1·56

Genito-urinary diseases

There were 10,546 deaths attributable to diseases of the genito-urinary systems, distributed as follows:

crients division to the contract of	o Hall English	М	F
Nephritis and nephrosis	010	2,005	1,709
Hyperplasia of prostate		907 3,259	1,288
Diseases of breast and female genital organs Other genito-urinary diseases		1 649	187 541
Total		6,821	3,725

Nephritis and nephrosis have declined rapidly during the last decade as improved antibiotics and steroids have been brought into use, but there was a very slight increase in the death rate during 1960 compared with 1959.

Infections of the kidneys continue to rise in importance and the death rate has doubled in the decade. This may be partly due to wider appreciation that nephritis is often caused by an antecedent pyelonephritis. The rise in the deaths attributable to this cause is about 1,000 deaths during the decade whereas the fall in the nephritis-nephrosis deaths is about 3,000.

Hyperplasia of the prostate remains an important cause of death among the men over 75, but here the rate is declining rapidly as it is realised that even at advanced ages surgical intervention can be very successful.

Maternal and associated deaths

Deaths of women in childbirth have been greatly reduced in recent years; there were 2,065 in 1940, 821 in 1950 and only 385 in 1960. Unfortunately there was a slight increase in deaths in 1960 from 372 in 1959 but this increase of 13 was well within the range of a chance distribution. It does nevertheless illustrate the need for continual vigilance if the excellent results of modern obstetrics are to be maintained.

It is important to observe that the risk associated with maternity increases steeply with age and that over the age of 35 the risk is not negligible. Yet in 1960, although more than 80 per cent of women delivered their first child in hospital, more than 40 per cent of the women of 35 and over with a parity greater than 4 were delivered at home.

	noiteine	Dea	aths		eath rate per 000 materniti	es
Age at maternity	Maternities (in thousands)	Due to maternity	Associated with maternity	Due to maternity	Associated with maternity	All
Under 25 25–34 35 and over	294 396 101	62 152 96	9 44 22	21 38 95	3 11 22	24 49 117
Total	792	310	75	39	9	49

The principal causes of death due to childbearing were toxaemia of pregnancy with 60 deaths, ectopic pregnancies 17, abortion 62, antepartum haemorrhage 24, postpartum haemorrhage and retained placenta 19. There were 7 cases of death due to sepsis of childbirth and puerperium.

It is necessary to recall that the medical definition of an abortion is completely different from the legal definition. To a doctor an abortion is any untimely delivery before the beginning of the 28th week of gestation, whereas to the lawyers and the public the term tends to mean any expulsion of the foetus at any time before term due to external interference. The great majority of abortions are due to natural causes.

There was only one important individual cause of death not classed as due to the pregnancy but certified as associated with childbearing. This was mitral disease from which there were 13 deaths all of women over the age of 25. The remaining 62 deaths associated with pregnancy were due to a great variety of causes.

Accidents and violent deaths

There were 23,122 deaths attributed to accidents or violence, about 4 per cent of all deaths in the year.

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These deaths have been steadily increasing over the decade both in absolute number and in terms of death rates in spite of the improvements in treatment of accidents by medical and surgical care.

There are various aspects of this problem; motor vehicle traffic accidents continue to account for about 28 per cent of these deaths (6,557 deaths) whereas accidental falls account for 24 per cent (5,465 deaths) and suicides account for at least 22 per cent (5,112 deaths).

The age and sex distribution of these three main groups of violent deaths is very different; the motor traffic accidents affect men predominantly, and mostly young men, the falls are mostly by elderly women and the suicides are largely by males and many in middle age.

Motor vehicle traffic accidents

Deaths from motor vehicle traffic accidents have risen from 4,134 a decade ago to 6,557 in 1960, and the S.M.R. has risen from 100 in 1950–52 to 140 for males and 165 for females in 1960.

In the last five years these deaths have increased but not as rapidly as the registration of vehicles.

Death rates per 100,000 population

Ages	Ma	ile	Female		
materially materially	1956	1960	1956	1960	
1–4	10 7 29 15	8 8 44 17	6 3 4 3	5 4 7 4	
45–64	15 26 59	19 30 67	5 13 23	8 17 31	
All ages	17	21	6	8	

Vehicles registered (in thousands)

an abo		ninit:	Motorcycles over 50 cc.	Total vehicles
1956	9 30 3	weel	1.043	6.920
1960	o Vers	nesia	1,043 1,407	6,920 9,380

The very high rate of mortality from motorcycle accidents is a matter for particular concern. Although motorcycles accounted for 15 per cent of registered vehicles in 1960, there were 1,680 deaths to riders or passengers of motorcycles or 26 per cent of all motor vehicle traffic accident deaths. It should, however, be noted that figures for the true exposure to risk of "passenger miles travelled" are not available.

Falls

The death rate from falls in 1960 was $8 \cdot 6$ per 100,000 population for males and $15 \cdot 0$ for females, a male/female ratio of $0 \cdot 57$ which has been fairly constant during the last decade.

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The majority of the deaths are due to falls on the same level and to unspecified falls and many are due to fractured femurs in elderly women over the age of 75. Although these deaths are necessarily attributed to the fall and consequent fracture, in many cases they result from a bronchopneumonia which occurs when the women take to their beds.

Suicide

Suicide remains a serious cause of death with a male rate of 13.9 per 100,000 and a female rate of 8.7, giving a male/female ratio of 1.60 and this also is a ratio that has remained fairly constant. In the last decade the rate of suicide increased from 1950 until 1956 and 1957 since when there has been a slight improvement. At all ages the suicide rate is higher for males than for females, and in the case of males it increases with age so that at ages over 75 the death rate for men is 38 per 100,000 population, which is three times as high as the rate for women of those ages at 12 per 100,000 population.

Type of injury. Deaths from violent causes are tabulated not only by the external cause but also by the nature of the injury inflicted, which enables us to make a more meaningful analysis of the mode of death.

The types of injury are shown in Table 18B of Part I of the *Review* and are summarised below:

Males OFemales Persons	Males	Females	Persons
Fracture of skull	3,317	1,136	4,453
Other head injury	1,016	486	1,502
Fractures of spine or trunk	888	555	1,443
Fractures of limbs	1,142	2,893	4,035
Internal injuries of chest, abdomen, and pelvis	1,158	316	1,474
Poisoning by carbon monoxide	2,028	1,692	3,720
Poisoning by other causes	639	832	1,471
Drowning	1,082	386	1,468
All other causes	2,233	1,323	3,556
Total violent deaths	13,503	9,619	23,122

Head injury. It is clear that the commonest mode of violent death is by injury to the head either by fracture of the skull or by internal injury to the brain which accounted for 5,955 deaths.

The majority of these head injuries were received in motor vehicle traffic accidents.

Deaths from fracture of skull and other head injuries by external cause

	Exteri	nal caus	0.19		Xae	Males	Females	Persons
Road vehicle acci	ident to	•		rales	v	888 411	664	1,552 494
Motorcyclist Motor vehicle						1,081	109	1,190
Falls				1001		494 660	185 412	679 1,072 968
Other causes	••	200	•••	0.01		799	169	968
All causes	•••	3000		580,1		4,333	1,622	5,955

Fractures of limbs. Deaths due to fractures of limbs present an entirely different picture to deaths from head injury. Only 214 deaths were due to fractures of the upper limbs and 3,821 to fractures of the lower limbs, of which 3,353 were fractures of the femur. Three-quarters of all such deaths are of persons over the age of 75 and the real cause is due to being bed-fast as a result of the fracture.

Deaths from fractures of the limbs

Age	Males	Females	Persons	
Under 75 Over 75	381 761	525 2,368	906 3,129	
Total	1,142	2,893	4,035	

Poisoning

There were 5,191 deaths attributed to poison and of these three-quarters were due to carbon monoxide and in almost all of these the source of the carbon monoxide was domestic gas.

Deaths due to poisoning

Agent			Males	Females	Persons
Carbon monoxide		1	2,028	1,692	3,720
Barbiturates	9.08		372	566	938
Salicylates			91	139	230
Other agents			176	127	303
Total			2,667	2,524	5,191

Suicide by domestic gases, which constituted the most common agent in suicides, accounted for 2,499 deaths. The number of such deaths has remained relatively constant in recent years. Deaths due to accidental poisoning by utility gas, however, have continued to increase. They have risen steadily from 741 in 1956 to 948 in 1960, a trend which gives cause for concern.

Drowning

The number of deaths which occur annually from drowning has been approximately 1,500 in recent years and the male/female ratio has remained fairly constant at about $2 \cdot 5$. In 1960 there were rather fewer deaths from drowning than in the three previous years.

Deaths by sex 1956 to 1960

		Year		Males	Females	Persons	
1956	28011 283	ayyan e	4 PER	 1,025	411	1,436	
1957	244		086	 1,094	453	1,547	
1958	981		0.00	 1,079	442	1,521	
1959				1,079	425	1,504	
1960	- 9000		a total	1,082	386	1,468	

The ages at which deaths occur is important as many of these are the deaths of children and young adults but it is not possible to analyse from the statistics how many of these accidents are due to falling into water, how many are bathing accidents and how many are the deaths of attempted rescuers.

Deaths by sex and age, 1960

	Age	nel o	Fen	Males	Females		
0- 1 1- 4 5-14 15-24			£	7 85 170 134	2 21 30 11		
25–44 45–64 65–74 75 and o	ver			172 300 129 85	50 165 74 33		

The types of accidents which caused the death by drowning are shown below:

	Cause of drowning												
Submersion of occu Submersion due to Accidental drowning Suicidal drowning Other causes	injury	of sm in a v	all boa	t ranspor 	t vessel	10 10 10 10 10 10 10 10 10 10 10 10 10 1		86 35 677 256 28	2 1 197 182 4				
Total	.001			8-11		31.61		1,082	386				

Table XLIII. Crude annual death rates per 1,000 living, and Standardised Mortality Ratios, 1841 to 1960, England and Wales

MATERIAL	CHAIN ACERS	H. WEGG	talescated ordi	dall-arough one	strinkinda acce	M. Berlinger a beauty
	Period		Crude de per 1,00		Ra	ed Mortality tio* 2 = 100)
			Males	Females	Males	Females
1841–185 1851–186 1861–187 1871–188 1881–189	50 70 80	4 H	23·1 23·1 23·7 22·7 20·3	21·6 21·4 21·4 20·1 18·1	320 313 319 308 281	396 384 383 362 327
1891–190 1901–191 1911–192 1921–193 1931–194 1941–195	0 0 0	7 50: 4V: 60:	19·3 16·4 15·1 12·9 13·0 12·5	17·1 14·4 13·0 11·4 11·5	268 221 187 142 125 104	307 248 207 159 136 107
1941 1942 1943 1944 1945	work on	aniny ante	14·0 12·5 12·7 12·6 12·3	11·8 10·5 11·1 10·7 10·7	124 109 109 106 103	127 111 114 108 106
1946 1947 1948 1949 1950		8 A9 8 88 88	12·2 12·9 11·5 12·3 12·3	10·9 11·2 10·1 11·1 11·0	101 106 93 99 98	106 108 95 103 101
1951 1952 1953 1954 1955		80gt	13·4 12·2 12·2 12·2 12·5	11·8 10·5 10·7 10·5 10·9	106 96 96 95 97	106 93 94 91 93
1956 1957 1958 1959 1960			12·5 12·3 12·4 12·3 12·2	10·9 10·7 11·0 11·0 10·9	96 94 95 94 92	92 88 90 89 87

^{*} Civilians only, 1914-1918 and 1939-1949.

Table XLIV. Abridged life table, 1958-60, England and Wales

Ma	les	Age	Fen	nales	
l_x	$\stackrel{\circ}{e_x}$	x	l_x	$\stackrel{\circ}{e_x}$	
10,000	68·1	0	10,000	73.9	
9,752 9,737 9,728 9,720	68·8 67·9 67·0 66·0	1 2 3 4	9,806 9,793 9,785 9,780	74·3 73·4 72·5 71·5	
9,714 9,691 9,671 9,629	65·1 60·2 55·4 50·6	5 10 15 20	9,775 9,759 9,746 9,728	70·6 65·7 60·8 55·9	
9,574 9,524 9,466 9,377 9,235 8,999 8,585 7,879	45.9 41.1 36.3 31.6 27.1 22.7 18.7 15.2	25 30 35 40 45 50 55 60	9,704 9,674 9,630 9,564 9,458 9,295 9,050 8,684	51·0 46·1 41·3 36·6 32·0 27·5 23·2 19·1	
6,859 5,522 3,932	12·1 9·4 7·1	65 70 75	8,113 7,237 5,937	15·2 11·8 8·8	
2,331	5.3	80	4,192	6.4	
990	4.2	85	2,308	4.6	

This abridged life table is constructed from the estimated *home* population in 1958, 1959 and 1960, and the total deaths registered in those years.

The column headed l_x shows, for each sex, the numbers who would survive to exact age x out of 10,000 born who were subject throughout their lives to the recorded age death rates of the period.

Column $\stackrel{\circ}{e_z}$ is the "expectation of life", that is, the average future lifetime which would be lived by persons aged exactly x, if likewise subject to those death rates.

Table XLV. Expectation of life at birth and at age 1 year, 1838 to 1960, England and Wales

	3	Section 1	Expectation	n of life at			
From English Life Table	Year	Bi	rth	Age 1 year			
- R-67	808.9	Males	Females	Males	Females		
No. 1	1841	40	42	47	48		
2 3 4 5	1838-44	40	42	- 47	47		
3	1838-54	40	42	47	47		
5	1871–80 1881–90	41 44	45	48	50		
3	1001-90	44	47	51	53		
6	1891-1900	44	48	52	55		
7	1901–10	49	52	56	58		
8	1910–12	52	55	58	60		
9	1920–22	56	60	60	63		
10	1930–32	59	63	62	65		
11	1950–52	66	72	68	72		
From annual	1943	62	67	64	69		
Abridged Life Tables	1944	62	68	64	70		
	1945	63	69	65	71		
8.4	1946	65	69	67	71		
9.3	1947	64	69	67	71		
	1948	66	71	(0	70		
40. 40.	1949	66	71	68 68	72 72		
	1950	67	71	68	72		
. 3-F	1951	66	71	67	72		
Andrew Property and Control	1952	67	72	68	73		
201 3201 of notation	1953	67	72	68	73		
	1954	68	73	69	74		
the to exact age	1955	68	73	68	74		
ded age death rates o	1956	68	73	69	74		
S. T. T. Communication of the	1957	68	74	69	74		
d phrose toube orains	1958	68	74	69	74		
	1959	68	74	69	74		
	1960	68	74	69	75		

Table XLVI. Annual death rates per 1,000 living, by quarters in each year 1931 to 1960, with ratios to each yearly rate taken as 100, England and Wales

	49.4	Dea	th rate p	er 1,000 liv	ving	Ratio t	o yearly	rate taken	as 100
		March	June	Septem- ber	Decem- ber	March	June	Septem- ber	Decem- ber
1931		16·5	11·5	9·6	11·7	134	93	78	95
1932		15·4	11·6	9·7	11·5	128	97	81	96
1933		17·1	10·8	9·4	12·0	139	88	76	98
1934		14·6	11·8	9·6	11·2	124	100	81	95
1935		13·2	12·0	9·8	12·0	113	103	84	103
1936		15·1 16·2 13·6 15·1 20·6	11·8 11·6 11·6 11·7 11·9	9·7 9·7 9·9 9·9 10·8	12·0 12·3 11·5 11·8 14·1	125 131 117 125 143	98 94 100 97 83	80 78 85 82 75	99 99 99 98 98
1941		18·4	14·2	10·1	11·5	136	105	75	85
1942		15·8	12·0	9·8	11·6	128	98	80	94
1943		14·5	11·7	10·1	15·7	112	90	78	121
1944		15·3	12·0	11·0	12·7	120	94	87	100
1945		16·5	11·5	10·0	12·6	131	91	79	100
1946	100	15·4 17·6 12·4 15·2 14·0	11·2 11·3 10·3 11·2 11·1	9·7 9·2 9·4 9·3 9·3	11·9 11·4 11·7 11·8 12·3	128 143 113 129 120	93 92 94 95 95	81 75 85 79 80	99 93 106 100 106
1951		19·1	11·1	9·1	11·0	153	89	73	88
1952		13·4	10·6	8·9	12·4	119	94	79	110
1953		15·8	10·4	8·9	10·7	139	91	78	94
1954		14·0	10·6	9·3	11·4	124	94	82	101
1955		15·4	11·2	9·1	11·1	132	96	78	95
1956	6.3	15·3	10·8	9·3	11·3	131	92	79	97
1957		12·2	10·6	9·7	13·4	106	92	84	117
1958		14·7	11·0	9·3	11·7	126	94	79	100
1959		15·8	10·6	9·0	11·1	136	91	78	96
1960		13·1	10·9	9·8	12·2	114	95	85	106

Table XLVII. Average annual death rates per 1,000 living, by sex and age, 1841 to 1960, England and Wales

																		30 2
					Males	ASES	36	335		18			SASI	Females		1		200 M
	All ages	0-*	1-	5-	15-	25-	45-	65-	85 and over	All	0-*	1-	5-	15-	25-	45-	65-	85 and
1841–1850 1851–1860 1861–1870 1871–1880	23·1 23·1 23·7 22·7	167 168 168 163		7·24 6·79 6·43 5·29	8·23 7·71 7·26 6·24	11·2 10·9 11·5 11·3	23·6 23·2 24·8 26·1	89·6 86·8 87·7 90·2	312·3 308·2 315·0 327·4	21·6 21·4 21·4 20·1	137 139 139 134	1	7·27 6·84 6·25 5·05	8·50 7·98 7·30 6·12	11·6 10·9 10·7 9·92	21·1 20·1 20·6 21·0	82·4 80·0 79·8 80·9	293 · 288 · 285 · 296 · 4
1881–1890 1891–1900 1901–1910 1911–1920	20·3 19·3 16·4 15·1	155 168 140 112		4·20 3·40 2·80 2·93	4·97 4·38 3·61 4·16	9·79 8·82 7·16 7·05	25·5 25·2 22·3 20·2	89·4 89·4 82·7 81·4	305·8 286·8 279·2 274·5	18·1 17·1 14·4 13·0	128 138 114 89	192	4·23 3·49 2·91 2·97	4·97 4·06 3·20 3·53	8·76 7·58 5·60 5·54	20·6 20·3 17·5 15·2	78·9 79·5 71·6 67·6	270 · 261 · 4 250 · 3 243 · 6
1921–1925 1926–1930 1931–1935 1936–1940	12·9 12·9 12·7 13·3	86 77 70 62	6·88 5·00	2·10 2·06 1·84 1·60	3·06 2·93 2·81 2·64	5·24 4·84 4·23 3·95	16·9 17·0 16·6 17·3	76·2 76·3 75·1 76·2	272·7 298·1 278·9 286·3	11·4 11·4 11·4 11·6	66 59 54 48	6·23 4·40	2·05 1·90 1·71 1·40	2·83 2·67 2·51 2·17	4·26 3·97 3·67 3·22	12·8 12·4 11·9 11·5	64·0 62·5 61·0 60·1	241 · 2 254 · 4 245 · 0 252 · 3
1941–1945 1946–1950 1951–1955	12·8 12·2 12·5	56 41 30	3·72 1·90 1·23	1·44 0·79 0·52	2·99 1·42 1·05	3·72 2·58 2·05	15·7 14·5 13·9	69·0 69·9 75·5	226·1 241·6 265·9	10·9 10·9 10·9	44 32 23	3·26 1·62 1·04	1·13 0·59 0·37	1·98 1·29 0·60	2·84 2·17 1·60	9·86 8·79 8·02	52.1	206·6 208·9 222·0
1956 1957 1958 1959 1960	12·5 12·3 12·4 12·3 12·2	27 26 25 25 25 25	0.98 1.04 0.99 1.00 0.95	0·43 0·46 0·44 0·43 0·45	0·93 1·03 0·95 1·03 1·03	1·85 1·86 1·81 1·79 1·79	13·5 13·7 13·5 13·5 13·4	75.8 73.5 75.1 73.9 72.4	256·2 226·8 242·6 240·0 232·1	10·9 10·7 11·0 11·0 10·9	20 20 20 20 20 19	0·83 0·90 0·77 0·81 0·78	0·30 0·32 0·27 0·31 0·30	0·45 0·49 0·45 0·44 0·40	1·40 1·41 1·32 1·30 1·25	7·55 7·59 7·45 7·34 7·23	51·0 48·7 49·9 49·3 48·1	222·7 199·2 215·6 215·4 210·4

^{*} Per thousand live births; related live births from 1931 to 1956.

Table XLVIII. Deaths, death rates per million living, and Standardised Mortality Ratios (1950–52 = 100), from selected causes, by sex, 1951 to 1960, England and Wales

		1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
100 E	7 500 A	Land of	1 Miles	THE SECTION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PER	All	causes		Special Control of the Control of th			32/2025
Deaths	${M \atop F}$	281,724 267,656	257,760 239,724	259,490 244,039	259,797 242,099	266,976 251,888	267,904 253,427	266,407 248,463	270,639 256,204	269,878 257,773	269,172 257,096
Rate	{M F	13,387 11,754	12,210 10,493	12,237 10,655	12,204 10,532	12,482 10,927	12,451 10,947	12,306 10,682	12,447 10,965	12,332 10,969	12,196 10,855
S.M.R.	${\mathbf M} {\mathbf F}$	106 106	96 93	96 94	95 91	97 93	96 92	94 88	95 90	94 89	92 87
				Tube	erculosis, a	ll forms (001–019)				
Deaths	${M \atop F}$	8,826 4,980	7,114 3,471	5,964 2,938	5,392 2,505	4,533 1,959	3,804 1,571	3,414 1,370	3,207 1,273	2,810 1,044	2,502 933
Rate	${ M \brace F}$	419 219	337 152	281 128	253 109	212 85	177 68	158 59	147 54	128 44	113 39
S.M.R.	${ M \atop F}$	103	82 72	69 61	62 52	52 41	43 33	38 28	36 26	31 21	27 19
				All m	alignant n	eoplasms	(140–205)				
Deaths	${M \atop F}$	44,632 41,448	45,429 42,213	45,935 41,989	47,313 42,782	48,160 43,180	48,935 43,775	50,056 43,961	50,735 45,069	51,783 45,334	52,779 46,009
Rate	$\left\{ _{F}^{M}\right.$	2,121 1,820	2,152 1,848	2,166 1,833	2,223 1,861	2,252 1,873	2,274 1,891	2,312 1,890	2,333 1,929	2,366 1,929	2,391 1,943
S.M.R.	${ M \atop F}$	101 99	101 99	102 98	103 98	104 98	105 97	106 96	106 97	107 97	108 97
				Malign	ant neopla	sm of stor	nach (151)	1 428.5			
Deaths	${M \atop F}$	8,128 6,478	8,039 6,316	8,016 6,176	7,818 6,232	7,942 6,146	7,712 6,163	7,951 5,966	7,934 6,178	7,930 6,146	7,846
Rate	${ M \atop F}$	386 284	381 276	378 270	367 271	371 267	358 266	367 257	365 264	362 262	356 258
S.M.R.	${ M \atop F}$	101	99 97	98 93	95 92	95 90	91 89	93 84	92 85	91 83	88 81
			Maligna	nt neoplas	m of trach	ea, bronch	us and lur	ng (162, 16			
Deaths	${\mathbf K}_{\mathbf F}^{\mathbf M}$	11,127 2,072	11,942 2,228	12,835 2,239	13,941 2,323	14,761 2,438	15,544 2,553	16,358 2,670	17,040 2,780	18,181 2,882	18,882 3,118
Rate	${M \brace F}$	529 91	566 98	605 98	655 101	690 106	722 110	756 115	784 119	831 123	856 132
S.M.R.	${ M \atop F}$	101 99	107 105	114 104	122 107	128 111	133 115	138 118	142 121	149 124	153 132
	1000			Malign	nant neopl	asm of bre	east (170)				
Deaths	${M \atop F}$	7,972	8,251	8,115	8,315	8,449	8,522	8,552	8,949	8,708	9,059
Rate	${M \atop F}$	350	3 361	4 354	362	4 367	3 368	368	383	3 371	382
S.M.R.	$\left\{ _{F}^{M}\right.$	102 99	94 101	128 99	125 100	119 100	105 100	105	109 101	92 97	92 100
Danie I					nt neoplas				000		
Deaths Rate	F F	4,043 178	4,008	3,926	3,827	3,844	3,921 169	3,912	4,115	4,003	4,088
S.M.R.	F	99	97	94	91	167 90	91	168	93	170 89	90
				Leul	caemia and	l aleukaen	nia (204)				
Deaths	${ M \atop F}$	984 943	1,102 941	1,116 1,005	1,142 1,018	1,223 1,001	1,229 1,086	1,301 1,093	1,301 1,085	1,315 1,219	1,476 1,218
Rate	${ M \atop F}$	47 41	52 41	53 44	54 44	57 43	57 47	60 47	60 46	60 52	67 51
S.M.R.	$\left\{ _{F}^{M}\right.$	96 104	107 103	108 109	110 110	117 107	116 115	122 115	121 113	121 125	134 124

Table XLVIII—continued

	10301	1074	10.50	1000	CONTRACT	natou vei	(00	1 0	Z EXOP	Ep Paris	
_		1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
	CM	1 1 210	1 1 001	1 1000		mellitus (2		1 010	1 4450		
Deaths	{M F	1,219 2,484	1,091 2,247	1,066 2,128	1,048 1,980	1,084 2,207	1,108 2,134	1,013 2,124	1,152 2,163	1,100 2,093	1,193 2,366
Rate	${M \atop F}$	58 109	52 98	50 93	49 86	51 96	51 92	47 91	53 93	50 89	54 100
S.M.R.	${M \atop F}$	104	92 92	89 86	87 78	89 86	90 82	81 80	92 80	87 77	93 85
	CM	1 29,003	Vascula 29,158	r lesions a	affecting co	entral nerv	ous system	30,537	31,298	30,897	31,006
Deaths	{M F	39,443	40,230	39,307	41,626	43,054	43,453	43,132	44,879	44,253	45,216
Rate	${M \atop F}$	1,378 1,732	1,381 1,761	1,356 1,716	1,433 1,811	1,454 1,868	1,442 1,877	1,411 1,854	1,439 1,921	1,412 1,883	1,405 1,909
S.M.R.	${M \atop F}$	103	102	99 97	104	105	104	100 97	102 99	100 96	99 96
	-			Diseases o						1 10	. 11.16.2
Deaths	${M \atop F}$	97,749 98,922	92,513 90,151	91,423 90,477	94,637 91,331	96,704 95,222	98,065 95,470	95,784 92,566	99,907 97,738	96,306 95,526	100,244 98,319
Rate	${M \atop F}$	4,645 4,344	4,382 3,946	4,311 3,950	4,446 3,973	4,521 4,131	4,558 4,124	4,425 3,980	4,595 4,183	4,401 4,065	4,542 4,151
S.M.R.	$\left\{ _{F}^{M}\right.$	104 105	97 93	95 92	97 90	98 92	99 91	95 86	98 89	94 85	96 86
				Arteri	osclerotic	heart dise	ase (420)				
Deaths	${M \atop F}$	37,654 21,777	39,568 22,827	39,449 23,175	42,919 24,925	44,857 26,813	47,476 28,300	48,266 28,910	52,085 31,956	52,193 32,729	56,514 35,447
Rate	$\left\{ _{F}^{M}\right.$	1,789 956	1,874 999	1,860 1,012	2,016 1,084	2,097 1,163	2,206 1,222	2,230 1,243	2,395 1,368	2,385 1,393	2,561 1,497
S.M.R.	${ M \atop F}$	101 100	105 103	104 103	112 108	116 115	121 119	122 119	129 129	128 130	137 138
				Diseases of	DE INSTITUTE						
Deaths	${M \atop F}$	45,783 35,824	31,951 21,038	36,799 26,364	31,090 20,056	35,381 23,345	36,080 24,428	37,939 24,066	37,024 23,784	40,756 27,796	34,833 22,122
Rate	${M \atop F}$	2,176 1,573	1,514 921	1,735 1,151	1,460 873	1,654 1,013	1,677 1,055	1,753 1,035	1,703 1,018	1,862 1,183	1,578 934
S.M.R.	$\left\{ _{F}^{M}\right.$	126 135	87 77	100 96	83 71	94 81	95 83	98 80	96 79	104 91	88 71
	世紀			TO SERVICE STATE OF THE PARTY O		a (480–483	CALMENT .				
Deaths	${M \atop F}$	7,393 8,416	879 871	2,905 3,560	878 933	1,460 1,523	1,272 1,354	3,553 3,163	1,216 1,185	3,898 3,964	553 545
Rate	$\left\{ _{F}^{M}\right.$	351 370	42 38	137 155	41 41	68 66	59 58	164 136	56 51	178 169	25 23
S.M.R.	${M \atop F}$	220 223	26 23	85 91	25 23	42 37	36 33	99 74	34 27	107 90	15 12
					neumonia						SLEE
Deaths	${M \atop F}$	12,189 11,290	10,335 9,218	11,273 10,414	9,750 9,126	11,101 10,715	11,671 11,549	12,074 11,488	12,311 12,264	13,648 13,692	12,269 12,806
Rate	$\left\{ _{F}^{M}\right.$	579 496	490 404	532 455	458 397	519 465	542 499	558 494	566 525	624 583	556 541
S.M.R.	${M \atop F}$	114 115	97 93	105 104	90 90	102 104	107 110	109 107	110 112	121 123	107 113
				10000		s (500–502					
Deaths	${M \atop F}$	22,910 14,582	17,781 9,787	19,567 11,141	17,163 8,625	19,318 9,675	19,890 10,019	18,956 8,141	20,326 9,070	20,193 8,858	18,997 7,488
Rate	${M \brace F}$	1,089 640	842 428	923 486	806 375	903 420	924 433	876 350	935 388	923 377	861 316
S.M.R.	${M \brace F}$	118 124	91 81	99 91	86 68	96 76	98 77	92 61	98 68	96 65	89 54

Table XLVIII—continued

	TOTAL SERVICE	100		and the first						A13	
		1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
				Ulcer of s	tomach an	d duodenu	m (540, 54	11)			
Deaths	${M \atop F}$	4,276 1,354	4,059 1,325	3,795 1,331	4,011 1,467	3,975 1,542	3,778 1,564	3,568 1,461	3,425 1,473	3,090 1,473	3,165 1,540
Rate	$\left\{ _{F}^{M}\right.$	203 59	192 58	179 58	188 64	186 67	176 68	165 63	158 63	141 63	143 65
S.M.R.	${M \choose F}$	105 104	99 100	92 99	96 107	94 111	89 111	83 101	79 101	70 99	71 102
					Appendici	tis (550–55	53)				
Deaths	$\left\{ _{F}^{M}\right. \right $	679 493	598 447	550 356	547 422	485 360	522 331	497 302	462 328	430 271	367 271
Rate	${ M \atop F}$	32 22	28 20	26 16	26 18	23 16	24 14	23 13	21 14	20 12	17 11
S.M.R.	${M \atop F}$	101 99	88 89	81 70	80 82	70 69	75 63	71 57	65 61	60 50	51 49
				Neph	ritis and n	ephrosis (5	90–594)				
Deaths	$\left\{ _{F}^{M}\ \right $	3,155 3,193	2,898 2,795	2,706 2,549	2,645 2,453	2,448 2,294	2,554 2,125	2,250 1,945	2,158 1,920	1,923 1,762	2,005 1,709
Rate	${ M \atop F}$	150 140	137 122	128 111	124 107	114 100	119 92	104 84	99 82	88 75	91 72
S.M.R.	$\left\{_F^M\right.$	101 102	92 89	86 80	83 76	76 70	79 64	69 58	66 57	58 51	60 49
			A	ccidents, p	oisonings	and violence	ce (E800–I	E999)			
Deaths	$\left\{ _{F}^{M}\right.$	12,447 7,309	11,992 6,810	12,333 7,531	12,630 8,239	12,932 8,537	12,992 8,878	12,858 8,703	13,343 9,113	13,456 9,379	13,503 9,619
Rate	$\left\{ _{F}^{M}\right.$	591 321	568 298	582 329	593 358	605 370	604 383	594 374	614 390	615 399	612 406
S.M.R.	$\left\{ _{F}^{M}\right.$	103 104	99 96	101 104	103 112	105 115	105 118	103 113	106 117	106 119	105 120
				Motor veh	nicle traffic	accidents	(E810–E8	25)			
Deaths	$\left\{ _{F}^{M}\right.$	3,293 1,099	3,013 958	3,225 1,021	3,289 1,158	3,552 1,256	3,655 1,284	3,608 1,219	3,966 1,400	4,345 1,607	4,676 1,88
Rate	$\left\{ _{F}^{M}\right.$	156 48	143 42	152 45	155 50	166 54	170 55	167 52	182 60	199 68	212
S.M.R.	${M \atop F}$	105 107	96 92	102 97	104 109	112 118	115 119	112 111	123 127	133 144	142 166
		Accidents	s in the ho	me and re	sidential in	stitutions	(E870·0 a	nd ·7-E93	36 ⋅ 0 and ⋅	7)	
Deaths	$\left\{ _{F}^{M}\right.$	2,002 3,481	1,955 3,271	2,157 3,738	2,452 4,165	2,424 4,227	2,516 4,392	2,419 4,248	2,559 4,442	2,519 4,491	2,478 4,552
Rate	${M \atop F}$	95 153	93 143	102 163	115 181	113 183	117 190	112 183	118 190	115 191	112 192
S.M.R.	$\left\{ _{F}^{M}\right.$	104 104	102 96	113 108	127 118	125 118	129 120	122 113	128 116	125 115	12 114
				Suicide an	d self-infli	cted injury	(E970-E9	779)			
Deaths	${M \atop F}$	2,831 1,638	2,788 1,550	3,020 1,734	3,178 1,865	3,060 1,940	3,198 2,084	3,170 2,145	3,175 2,123	3,116 2,091	3,05 2,05
Rate	${M \atop F}$	135 72	132 68	142 76	149 81	143 84	149 90	146 92	146 91	142 89	13
S.M.R.	${\{}^M_F$	100 103	98 97	106 108	110 115	105 119	109 126	107 129	106 127	104 124	10 12

Table XLIX. Death rates per 1,000 living, by sex and age, and Standardised Mortality Ratios (all ages) in standard regions and urban and rural aggregates within regional groups, 1960, England and Wales

		92 B	2 22		Males							Females	Females			
	20 10 10 21 21 20 2	All ages	0-	5-	15-	45-	65 and over	S.M.R.	All ages	0-	5	15-	45-	65 and over	S.M.R	
	ENGLAND AND WALES	12.2	6.19	0.45	1.54	13.4	79.5	100	10.9	4.79	0.30	0.98	7.23	57.9	100	
1	Urban and rural aggregates: Conurbations	12.1	6.41	0.43	1.55	14.2	81.5	103	10.6	5.02	0.30	0.99	7 · 27	57.9	100	
	Urban areas with populations of 100,000 and over	12.9	6.35	0.47	1.60	14.4	86.9	108	11.1	4.82	0.25	0.95	7.63	60 · 1	104	
10%	and under 100,000 Urban areas with populations under 50,000 Rural districts	12·5 12·7 11·3	6·04 6·27 5·65	0·44 0·46 0·48	1·55 1·52 1·48	13·5 13·1 11·4	81·9 78·8 72·5	102 99 90	11·4 11·3 10·5	4·65 4·71 4·51	0·29 0·29 0·34	1·01 0·99 0·93	7·05 7·27 6·91	58·5 58·2 55·8	100 100 96	
1	NORTH OF ENGLAND	12.9	6.91	0.45	1.65	14.8	84 · 4	108	11.4	5.39	0.31	1.07	8.01	62.9	109	
	Regions: Northern East and West Ridings North Western	12·7 12·6 13·3	6·85 6·22 7·37	0·55 0·44 0·41	1·64 1·52 1·73	14·8 14·1 15·2	85·4 81·8 85·7	108 103 110	10·8 10·9 11·9	5·23 5·13 5·64	0·31 0·26 0·34	1·10 0·99 1·11	8·25 7·52 8·20	63·9 60·3 64·0	111 104 111	
	Conurbations: Tyneside West Yorkshire South East Lancashire Merseyside	13·1 13·2 13·6 13·3 12·3	7·24 6·74 6·81 7·52 7·56	0·43 0·50 0·46 0·43 0·36	1.68 1.57 1.55 1.75	15·6 15·9 15·2 15·7 15·9	86·9 90·4 85·9 85·9 88·1	112 114 109 112 114	11·4 10·5 11·8 12·0 10·6	5·55 4·97 5·57 5·51	0·32 0·25 0·29 0·34	1·09 1·12 1·06 1·09	8·06 7·96 7·71 8·28	63·0 63·6 61·2 64·9	110 110 106 113	
	Areas outside conurbations: Urban areas with populations of 100,000 and over Urban areas with populations of 50,000	13.4	6.72	0.48	1.75	15.6	88 · 1	113	11.1	5·90 5·28	0.36	1.13	8·20 8·06	61 · 5	109	
	and under 100,000 Urban areas with populations under 50,000 Rural districts	13·3 13·0 11·6	6·65 6·87 6·12	0·46 0·51 0·41	1·75 1·60 1·48	15·0 13·8 12·5	85·5 81·8 77·4	109 103 96	11·7 11·6 10·7	5·46 5·30 5·02	0·28 0·31 0·34	1·05 1·05 1·06	7·74 8·18 7·64	64·6 63·4 61·2	111 110 106	

WALES AND MIDLANDS	11.9	6.46	0.50	1.63	13.4	79.4	101	1 10.3	4.97	0.30	1.00	7.43	58.8	102
Regions: Wales	13·7 11·5 11·2	6·90 6·19 6·42	0·55 0·48 0·47	1·87 1·54 1·57	14·6 12·2 13·6	84·6 76·7 78·3	108 95 100	11·2 10·2 9·87	5·34 4·76 4·94	0·29 0·30 0·32	1·12 0·89 1·02	7·92 7·18 7·35	62·2 57·3 57·9	108 99 101
Conurbation: West Midlands	11.2	6.47	0.49	1.59	14.4	80 · 1	103	9.62	5.01	0.29	1.01	7.11	58 · 3	100
Areas outside conurbation: Urban areas with populations of 100,000 and over	12·4 12·4 12·6 11·2	6·95 7·28 6·67 5·64	0·53 0·42 0·49 0·51	1·65 1·65 1·69 1·58	14·3 13·8 13·7 11·6	87·5 80·7 80·7 72·6	109 103 102 91	10·5 9·96 10·9 10·1	5·45 5·33 4·80 4·69	0·35 0·35 0·26 0·32	0·96 1·06 1·04 0·95	8·00 6·98 7·64 7·17	61·1 57·8 60·3 55·5	106 100 104 97
SOUTH AND EAST OF ENGLAND (excluding Greater London)	12.1	5.46	0.44	1.39	12.0	75.9	93	11.3	4.09	0.29	0.89	6.55	55 · 0	94
Regions: London and South Eastern (excluding Greater London)	13·4 11·3 12·9 10·8	5·24 5·57 5·70 5·33	0·43 0·47 0·45 0·43	1·41 1·31 1·54 1·31	12·3 12·2 12·6 10·9	77·5 75·2 81·0 70·2	95 93 100 86	12·6 10·5 11·9 10·1	4·02 4·28 4·09 3·99	0·40 0·22 0·27 0·28	0·93 0·85 0·88 0·92	6·67 6·50 6·85 6·20	55·8 53·1 58·2 52·6	95 91 99 90
Urban areas with populations of 100,000 and over	13.0	5.46	0.41	1 · 44	13.6	85.4	104	11.5	3.82	0.17	0.87	6.97	57.9	98
and under 100,000 Urban areas with populations under 50,000 Rural districts	12·0 12·5 11·2	5·14 5·58 5·45	0·43 0·42 0·49	1·39 1·33 1·42	12·4 12·3 10·8	80·1 75·7 70·5	97 94 87	11·7 11·5 10·7	3·87 4·24 4·16	0·27 0·29 0·36	0·96 0·91 0·87	6·63 6·42 6·45	55·6 54·3 54·1	95 93 92
GREATER LONDON	11.6	5.65	0.40	1.45	13.0	77 . 7	97	10.1	4.56	0.29	0.91	6.71	54.2	93

Table L. Deaths from certain causes: (a) by sex and age, (b) distinguishing deaths in which a post-mortem was performed or there was a record of operation, and (c) the percentage to all deaths, 1960, England and Wales

ICD No.	Cause of death			Males					Females			Persons
102 110	Cause of acati	All ages	0-	15-	45-	65 and over	All ages	0-	15-	45-	65 and over	All ages
10.4 And	All causes (a) (b) (c)	269,172 73,014 27	12,876 6,290 49	13,787 7,060 51	75,259 26,382 35	167,250 33,282 20	257,096 51,132 20	9,288 4,327 47	8,829 3,699 42	44,651 13,070 29	194,328 30,036 15	526,268 124,146 24
001–008	Tuberculosis, respiratory (a) (b) (c)	2,342 757 32	2 2 100	233 74 32	1,111 371 33	996 310 31	763 212 28	8 6 75	211 48 23	267 78 29	277 80 29	3,105 969 31
010-019	Tuberculosis, other (a) (b) (c)	160 98 61	13 7 54	41 27 66	55 32 58	51 32 63	170 92 54	13 8 62	39 17 44	50 26 52	68 41 60	330 190 58
020-029	Syphilitic disease (a) (b) (c)	623 292 47	1 1 100	29 14 48	230 106 46	363 171 47	321 174 54		15 10 67	84 36 43	222 128 58	944 466 49
056	Whooping cough (a) (b) (c)	20 5 25	19 5 26	_ 1	=	=	17 4 24	17 4 24		Ξ	=	37 9 24
057	Meningococcal infections (a) (b) (c)	46 30 65	43 28 65	1 1 100	1 1 100	_ 1	49 41 84	42 35 83	2 1 50	1 1 100	4 4 100	95 71 75
080	Acute poliomyelitis (a) (b) (c)	19 9 47	2 2 100	12 5 42	4 1 25	1 1 100	4 2 50	3 1 33	1 1 100	Ξ		23 11 48
085	Measles (a) (b) (c)	13 2 15	12 1 8	Ξ	1 1 100	Ξ	18 6 33	17 6 35	_ 1			31 8 26
Rem. 001–138	Other diseases classified as infective or (a) parasitic (b) (c)	539 253 47	118 74 63	101 56 55	174 79 45	146 44 30	526 216 41	97 56 58	83 44 53	164 66 40	182 50 27	1,065 469 44
151	Malignant neoplasm: Stomach (a) (b) (c)	7,846 1,424 18	_ 1	234 42 18	3,038 618 20	4,573 764 17	6,107 807 13	Ξ	150 26 17	1,406 251 18	4,551 530 12	13,953 2,231 16
162, 163	Trachea, bronchus, and lung (a) (b) (c)	18,882 3,538 19	=	574 107 19	9,911 1,911 19	8,397 1,520 18	3,118 628 20	_ 1	192 43 22	1,342 241 18	1,583 344 22	22,000 4,166 19

	170	Breast (a) (b) (c)	63 6 10	=	2 1 50	18 2 11	43 3 7	9,059 1,598 18	=	718 154 21	4,100 758 18	4,241 686 16	9,122 1,604 18
	171–174	Uterus (a) (b) (c)	=	三	Ξ	-		4,088 553 14	1 1 100	457 63 14	1,764 267 15	1,866 222 12	4,088 553 14
	204	Leukaemia and aleukaemia (a) (b) (c)	1,476 292 20	210 34 16	273 63 23	429 95 22	564 100 18	1,218 217 18	151 24 16	168 26 15	368 69 19	531 98 18	2,694 509 19
	Rem. 140–205	Other malignant and lymphatic neo- (a) plasms (b) (c)	24,512 5,206 21	248 78 31	1,415 335 24	7,786 1,875 24	15,063 2,918 19	22,419 4,536 20	210 69 33	1,244 287 23	7,115 1,518 21	13,850 2,662 19	46,931 9,742 21
	260	Diabetes mellitus (a) (b) (c)	1,193 235 20	11 6 55	86 37 43	298 82 28	798 110 14	2,366 381 16	15 6 40	74 31 42	435 125 29	1,842 219 12	3,559 616 17
	330–334	Vascular lesions affecting central (a) nervous system (b)	31,006 3,590 12	50 31 62	513 281 55	6,155 1,568 25	24,288 1,710 7	45,216 4,415 10	35 24 69	540 286 53	5,936 1,484 25	38,705 2,621 7	76,222 8,005 11
	420	Arteriosclerotic heart disease. includ- (a) ing coronary disease (b) (c)	56,514 21,015 37	1 1 100	1,682 1,164 69	20,673 9,399 45	34,158 10,451 31	35,447 9,327 26	1 1 100	214 118 55	5,699 1,943 34	29,533 7,265 25	91,961 30,342 33
109	440–443	Hypertension with heart disease (a) (b) (c)	4,678 855 18	1 1 100	43 25 58	1,021 308 30	3,613 521 14	6,616 787 12	=	31 20 65	739 178 24	5,846 589 10	11,294 16,42 15
	410–416 , 421–434	Other heart disease (a) (b) (c)	28,038 3,095 11	46 31 67	728 308 42	3,842 1,084 28	23,422 1,672 7	42,878 3,475 8	35 24 69	818 314 38	3,825 897 23	38,200 2,240 6	70,916 6,570 9
	444_468	Other circulatory disease (a) (b) (c)	10,953 3,389 31	13 10 77	322 144 45	2,241 1,082 48	8,377 2,153 26	13,314 3,673 28	14 8 57	236 117 50	1,522 757 50	11,542 2,791 24	24,267 7,062 29
	480–483	Influenza (a) (b) (c)	553 122 22	28 15 54	61 35 57	163 48 29	301 24 8	545 75 14	27 11 41	29 19 66	91 25 27	398 20 5	1,098 197 18
	490 <u>4</u> 93, 763	Pneumonia (a) (b) (c)	12,269 3,461 28	1,703 1,059 62	336 168 50	1,791 731 41	8,439 1,503 18	12,806 2,642 21	1,232 774 63	234 107 46	1,168 402 34	10,172 1,359 13	25,075 6,103 24
	500-502	Bronchitis (a) (b) (c)	18,997 3,098 17	295 221 75	226 88 39	5,568 1,166 21	12,908 1,623 13	7,488 1,115 15	201 144 72	100 36 36	1,107 237 21	6,080 698 11	26,485 4,213 16
	470–475, 510–527	Other diseases of respiratory system (a) (b) (c)	3,465 1,478 43	124 101 81	159 63 40	1,183 566 48	1,999 748 37	1,564 425 27	64 53 83	95 46 48	324 106 33	1,081 220 20	5,029 1,903 38

Table L—continuep

ICD No.	Cause of death	7'008	33	Males			1912		Females			Persons
100-502	Subsection of death	All ages	0-	15-	45-	65 and over	All ages	0-	15-	45-	65 and over	All ages
540, 541	Ulcer of stomach and duodenum ((1,851	3 3 100	146 113 77	979 668 68	2,037 1,067 52	1,540 839 54	4 4 100	38 28 74	261 182 70	1,237 625 51	4,705 2,690 57
543, 571, 572, 764	Gastritis, enteritis, and diarrhoea (d	1,048 546 52	282 159 56	79 45 57	220 140 64	467 202 43	1,494 666 45	180 88 49	78 39 50	248 136 55	988 403 41	2,542 1,212 48
590–594	Nephritis and nephrosis ((2,005 (2) 425 (2) 21	61 28 46	387 97 25	678 163 24	879 137 16	1,709 393 23	46 14 30	211 59 28	502 129 26	950 191 20	3,714 818 22
610	Hyperplasia of prostate (a	3,259	=	1 1 100	189 123 65	3,069 1,237 40	=				=	3,259 1,361 42
640–689	Pregnancy, childbirth, abortion (a)					200	310 239 77		307 237 77	3 2 67		310 239 77
750–759	Congenital malformations ((1,371	2,166 1,079 50	226 138 61	201 103 51	103 51 50	2,426 1,072 44	1,993 850 43	166 92 55	186 82 44	81 48 59	5,122 2,443 48
Rem. 210–795	Other defined and ill-defined diseases (6,743	6,166 2,571 42	1,139 553 49	3,406 1,529 45	8,578 2,090 24	23,881 6,845 29	4,228 1,703 40	1,113 556 50	3,783 1,614 43	14,757 2,972 20	43,170 13,588 31
E810- E835	Motor vehicle accidents (3,144	408 222 54	2,362 1,579 67	1,091 735 67	893 608 68	1,889 1,279 68	214 126 59	434 298 69	490 334 68	751 521 69	6,643 4,423 67
E800- E802, E840- E962	All other accidents ((808 490 61	1,376 860 62	1,365 916 67	1,961 1,046 53	5,567 2,933 53	406 264 65	270 191 71	651 442 68	4,240 2,036 48	11,077 6,245 56
E962 E963, E970– E979	Suicide and self-inflicted injury (1,896	4 4 100	934 591 63	1,391 855 61	730 446 61	2,054 1,387 68	3 2 67	512 351 69	1,001 670 67	538 364 68	5,113 3,283 64
E964, E965, E980– E999	Homicide and operations of war (37 26 70	65 45 69	46 24 52	32 20 62	109 78 72	30 21 70	48 34 71	19 14 74	12 9 75	289 193 67

Table LI. Notifications of certain infectious diseases: Notification rates per 100,000 living, by sex and age, 1960, England and Wales

	Scarlet	forer	Whoo	pping	A	cute po	liomyeliti	S	Mea (exclu		Diphtheria		Dysentery		Meningococcal	
No. Percent	Scarlet	level	cou		Paralytic		Non-paralytic		rubella)				non High		infection	
	M	F	М	F	М	F	М	F	M	F	M	F	M	F	M	F
Under 1 year 1 2 3 4 5 10 15 25 and over	23 96 275 432 599 515 117 13	23 101 239 394 562 533 130 13	781 785 911 863 896 632 65 4·7	804 841 1,031 1,030 1,007 747 89 9.4 2.9	1.6 6.1 4.9 3.1 1.8 1.4 0.43 0.67 0.26	0·56 4·2 2·3 1·8 4·9 1·3 0·45 0·44 0·12	$ \begin{array}{c} - \\ 1 \cdot 9 \\ 0 \cdot 54 \\ 0 \cdot 56 \\ 2 \cdot 0 \\ 0 \cdot 78 \\ 0 \cdot 90 \\ 0 \cdot 27 \\ 0 \cdot 06 \end{array} $	1·1 0·56 1·1 0·60 0·62 0·69 0·56 0·30 0·08	754 2,126 2,764 3,041 3,227 2,178 99 13 1·3	802 2,127 2,715 3,041 3,258 2,152 101 12 1 · 8	0·27 0·27 0·27 — 0·72 0·37 0·03 0·01		225 425 477 410 392 355 139 39	210 370 440 394 344 344 116 70 40	27 13 8·2 4·8 6·1 2·9 1·4 0·81 0·31	18 8·9 6·9 5·7 4·0 2·1 1·2 0·84 0·22
All ages	74	67	125	129	0.68	0.45	0.29	0.24	370	327	0.11	0.11	95	94	1.6	1.1

1950	Ac	ute		Acute en	cephalitis			Enteric or		Paratyphoid		pelas	Food	
22.0	pneumonia		Infe	Infective		Post-infectious		typhoid fever		fevers			poisoning	
1931 · · · · · · · · · · · · · · · · · · ·	М	F	M	F	М	F	M	F	M	F	М	F	М	F
Under 5 years 5 15 45 65 and over	81 25 18 43 77	71 20 14 25 49	0·93 0·90 0·28 0·12	0·58 0·53 0·32 0·06 0·03	0·82 0·90 0·20	0·58 0·71 0·17 0·02	0·33 0·25 0·31 0·12 0·14	0·23 0·12 0·19 0·13 0·09	1·8 0·73 0·37 0·21 0·10	1·7 0·89 0·53 0·24 0·30	1·2 1·2 3·2 12 14	1·2 1·1 3·9 12 13	50 26 13 8·8 10	38 20 17 9·3 12
All ages	37	27	0.37	0.26	0.29	0.22	0.24	0.15	0.48	0.56	5.9	6.9	17	16

Table LI—continued

	Tuberculosis											
	Respii	ratory	Mening C.N		Ot	her						
	M	F	М	F	M	F						
Under 5 years	24 15 59 66 88 77	20 18 63 49 23 15	1·3 0·76 0·47 0·33 0·23 0·05	1·5 0·71 0·68 0·23 0·19 0·09	3·3 4·0 6·2 7·9 3·2 4·2	3·2 4·1 11 10 4·2 4·1						
All ages	60	33	0.45	0.42	5.1	6.4						

Table LII. Trend of stillbirths per 1,000 total births, 1928 to 1960, and of deaths in the neonatal, post-neonatal and other age periods under 1 year per 1,000 live births, 1906 to 1960, England and Wales

			which th	ese raids		Infant mo	rtality per	1,000 live	births* at	various age	es ichique	acq ob	Stillbirths	and infant d	leaths—rates	per 1,000 to	otal births†
	Rates bas		Total infant	Namatal	Early	Late neonatal	Post- neonatal	Early n		Post-	neonatal p	eriod	Stillbirths plus infant	Stillbirths (late foetal	Stillbirths plus infant deaths	Infant	Stillbirth plus infar
			(under 1 year)	Neonatal mortality (under 4 weeks)	neonatal mortality (under 1 week)	mortality (1 week and under 4 weeks)	mortality (4 weeks and under 1 year)	Under 1 day	1 day and under 1 week	4 weeks and under 3 months	3 months and under 6 months	6 months and under 1 year	deaths under 1 year "birth wastage"	deaths, at or over 28 weeks' gestation)	under 1 week "perinatal mortality"	deaths at 1 week and over	deaths under 4 weeks
1906- 1911- 1916- 1921-	-19101915192019251930	:::::::::::::::::::::::::::::::::::::::	117·1 108·7 90·9 74·9 67·6	40·2 39·0 37·0 33·4 31·8	24·5 24·1 23·4 21·7 21·8	15·7 14·9 13·7 11·7 9·9	76·9 69·8 53·9 41·6 35·7	11·5 11·4 11·0 10·4 10·3	13·0 12·7 12·4 11·3 11·5	22·8 20·2 16·5 12·8 10·8	22·0 19·6 14·6 11·3 9·5	32·1 30·0 22·8 17·5 15·4	11111	1111	ШШ	+0	1111
1936- 1941- 1946-	-19351940194519501955		61·9 55·3 49·8 36·3 26·9	31·4 29·2 26·0 21·1 18·0	22·4 21·5 18·7 16·2 15·0	9·0 7·7 7·2 4·9 3·0	30·5 26·0 23·8 15·2 8·9	10·7 10·4 9·3 7·9 7·5	11·7 11·2 9·5 8·4 7·5	9.9 8.8 8.9 5.8 3.4	8·5 7·8 7·7 5·0 3·0	12·1 9·4 7·2 4·4 2·5	100·6 91·7 78·5 59·5 49·2	41·0 38·5 30·5 24·0 23·0	62·5 59·2 48·6 39·8 37·6	38·1 32·5 29·9 19·6 11·6	71·1 66·6 55·6 44·6 40·5
1956- 1928 1929 1930			22·6 65·3 73·9 60·2	31·1 32·8 30·9	13·8 21·6 22·2 22·0	2·4 9·5 10·5 8·9	6·5 34·2 41·1 29·3	7·5 10·4 10·4 10·4	6·3 11·2 11·9 11·6	2·6 10·7 11·5 9·7	2·1 9·3 10·6 7·9	1·8 14·2 19·0 11·7	43·6 102·6 111·4 98·3	21·4 40·1 40·0 40·8	34·9 60·8 61·4 61·9	8·7 41·7 50·0 36·4	37·2 69·9 71·6 70·4
1931 1932 1933 1934 1935			65·7 64·5 62·7 59·3 57·0	31·5 31·5 32·1 31·4 30·4	22·1 22·4 22·9 22·7 22·0	9·5 9·2 9·3 8·7 8·4	34·2 33·0 30·6 27·9 26·6	10·4 10·6 11·0 10·9 10·7	11·7 11·8 11·8 11·8 11·3	10·8 10·8 9·8 8·9 9·1	9·2 9·0 8·6 7·7 7·7	14·2 13·2 12·2 11·3 9·8	104·5 103·7 102·5 96·7 95·4	40·9 41·3 41·4 40·5 40·7	62·1 62·8 63·4 62·2 61·9	42·4 40·8 39·1 34·5 33·5	71·2 71·6 72·3 70·5 69·9
1936 1937 1938 1939 1940			58·7 57·7 52·8 50·6 56·8	30·2 29·7 28·3 28·3 29·6	21·9 22·0 21·1 21·2 21·3	8·2 7·8 7·1 7·1 8·3	28·5 28·0 24·5 22·2 27·2	10·7 10·8 10·3 10·3 9·8	11·3 11·2 10·8 10·9 11·5	9·3 9·4 8·2 7·9 9·3	8·3 8·3 7·3 7·0 8·2	10·9 10·3 9·0 7·3 9·7	95·9 94·4 88·9 86·9 92·5	39·7 39·0 38·3 38·1 37·2	60·8 60·2 58·6 58·5 57·7	35·2 34·2 30·4 28·4 34·7	68·7 67·6 65·5 65·3 65·7

^{*} Rates based on related live births from 1926 to 1956.

† The births upon which these rates are based for successive calendar years are numbers registered up to 1938 inclusive, and numbers of occurrences from 1939.

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			20.0	0.67	TI.D												
			32-8 30-6	28-3	31-3	Infant me	ortality per	1,000 live	births* at	various ag	es	3.3	Stillbirths	and infant o	leaths—rates	s per 1,000 to	otal births†
	Period		Total infant mortality		Early neonatal	Late neonatal mortality	Post- neonatal mortality	Early n	eonatal iod	Post-	neonatal p	eriod	Stillbirths plus infant	Stillbirths (late foetal	Stillbirths plus infant	To	Stillbirths
1931 1933 1933			(under 1 year)	mortality (under 4 weeks)	mortality (under 1 week)	(1 week and under 4 weeks)	(4 weeks and under 1 year)	Under 1 day	1 day and under 1 week	4 weeks and under 3 months	3 months and under 6 months	6 months and under 1 year	deaths under 1 year "birth wastage"	deaths, at or over 28 weeks' gestation)	deaths under 1 week "perinatal mortality"	Infant deaths at 1 week and over	plus infan deaths under 4 weeks
1941 1942 1943 1944 1945	7000		60·0 50·6 49·1 45·4 46·0	29·0 27·2 25·2 24·4 24·8	20·7 19·6 18·3 17·5 18·0	8·3 7·7 6·9 6·9 6·8	31·1 23·4 23·9 21·1 21·3	10·1 9·6 9·1 8·8 9·0	10·6 10·0 9·2 8·8 9·0	11·3 8·7 8·8 8·0 8·2	9·7 7·5 7·8 7·0 7·0	10·1 7·2 7·3 6·1 6·1	92·4 81·1 77·5 70·9 73·4	34·8 33·2 30·1 27·6 27·6	54·7 52·1 47·9 44·5 45·2	37·7 29·0 29·6 26·3 28·1	62·7 59·4 54·6 51·1 51·8
1946 1947 1948 1949 1950	1935 1940 1945 1950	:::::::::::::::::::::::::::::::::::::::	42·9 41·4 33·9 32·4 29·6	24·5 22·7 19·7 19·3 18·5	17·8 16·5 15·6 15·6 15·2	6·7 6·2 4·1 3·7 3·3	18·4 18·6 14·2 13·0 11·1	8·7 7·8 7·8 7·6 7·2	9·1 8·7 7·9 8·0 8·0	7·1 6·9 5·5 4·8 4·3	6·1 6·0 4·8 4·4 3·7	5·2 5·7 3·9 3·8 3·1	66·9 65·0 56·8 54·6 51·7	27·2 24·1 23·2 22·7 22·6	44·3 40·3 38·5 38·0 37·4	22·6 24·6 18·4 16·7 14·3	50·7 46·4 42·5 41·5 40·7
1951 1952 1953 1954 1955	1910 1915 1920 1935	::	29·7 27·6 26·8 25·4 24·9	18·8 18·3 17·7 17·7 17·3	15·5 15·2 14·8 14·9 14·6	3·3 3·2 2·9 2·8 2·6	10·9 9·3 9·1 7·7 7·6	7·5 7·6 7·4 7·6 7·6	8·0 7·6 7·4 7·4 7·0	4·1 3·7 3·4 3·0 2·9	3·6 3·0 3·0 2·6 2·6	3·2 2·6 2·7 2·1 2·1	52·2 49·6 48·6 48·4 47·5	23·0 22·7 22·4 23·5 23·2	38·2 37·5 36·9 38·1 37·4	14·0 12·1 11·7 10·3 10·0	41·5 40·6 39·7 40·8 40·0
1956 1957 1958 1959 1960	Ponel	::	23·7 23·1 22·5 22·2 21·8	16·8 16·5 16·2 15·9 15·5	14·2 14·1 13·8 13·6 13·3	2·6 2·4 2·4 2·3 2·2	6·9 6·7 6·4 6·3 6·3	7·4 7·6 7·5 7·6 7·5	6·8 6·5 6·3 6·0 5·8	2·7 2·6 2·6 2·4 2·5	2·3 2·1 2·1 2·1 2·1	1·8 1·9 1·7 1·8 1·6	46·0 45·1 43·6 42·6 41·1	22·9 22·5 21·5 20·8 19·8	36·7 36·2 35·0 34·1 32·8	9·2 8·8 8·6 8·5 8·3	39·3 38·5 37·3 36·3 35·0

^{*} Rates based on related live births from 1926 to 1956.

Table LIII. Stillbirths per 1,000 total births, and deaths in the early neonatal, late neonatal, and post-neonatal periods per 1,000 live births*, distinguishing illegitimacy, 1936 to 1960, England and Wales

9730	Attribute 1 to Resignal Augustral (1917). I reducible to fig (170).	1936 to 1939	1940 to 1944	1945 to 1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Ancholista Constitution	Stillbirths Annual rate (late foetal deaths at per cent of 1936-39 or over 28 weeks' gestation)	38·8 100	32.3	24.9	22.6	23.0	22·7 59	22·4 58	23.5	23.2	22.9	22.5	21.5	20.8	19.8
All	Early neonatal deaths Annual rate (Under 1 week) per cent of 1936-39	21·6 100	19·3 89	16·7 77	15·2 70	15·5 72	15·2 70	14·8 69	14·9 69	14·6 68	14·2 66	14·1 65	13.8	13.6	13 · 3
infants	Late neonatal deaths Annual rate (1 week and under 4 weeks) per cent of 1936–39	7·6 100	7.5	5.5	3.3	3·3 43	3·2 42	2·9 38	2·8 37	2.6	2.6	32	32	30	29
	Post-neonatal deaths Annual rate (4 weeks and under 1 year) per cent of 1936-39	25·8 100	25·1 97	17·1 66	11.1	10·9 42	9·3 36	9·2 36	7·7 30	7·6 29	6.9	6.7	6.4	6.3	24
	Stillbirths Annual rate (late foetal deaths at or over per cent of 1936–39 28 weeks' gestation)	49·6 100	39·9 80	31 · 4	29·1 59	31·6 64	29·7 60	29·8 60	29·2 59	28.8	29·0 58	28.7	28 · 4 57	27.4	50
Illegitimate	Early neonatal deaths Annual rate (under 1 week) per cent of 1936–39	34·4 100	28·1 82	23·7 69	21·4 62	21·4 62	21·3 62	19·3 56	20·2 59	20.8	18·9 55	19·8 58	18·3 53	18·2 53	17.0
infants	Late neonatal deaths Annual rate (1 week and under 4 weeks) per cent of 1936–39	10·9 100	10·7 98	8·3 76	4.5	4.3	3.9	3·2 29	3·5 32	3·1 28	2·7 25	2.9	2.3	2.5	24
	Post-neonatal deaths Annual rate (4 weeks and under 1 year) per cent of 1936–39	41·6 100	35·8 86	23 · 5 56	13.6	12·8 31	9·8 24	10·6 25	8.3	7·8 19	7·1 17	7·3 18	7·2 17	6.7	6.

^{*} Rates prior to 1957 per 1,000 related live births.

[†] The births upon which these rates are based for successive calendar years are numbers registered up to 1938 inclusive, and numbers of occurrences from 1939.

Table LIV. Principal causes of death under 1 year: (a) Age-group distribution per cent of all deaths assigned to each cause, (b) Cause distribution per 1,000 total deaths in each age-group, 1960, England and Wales

	access that the access and access and access that the access and access that the access and access that the access to the access t	Marie Marie Trans	Age dis	stribution p assign	er cent of ed to each	total infant cause	deaths	Cause of	listribution in e	per 1,000 ach age-gro	total infant	deaths
Actiological	Cause of death (and ICD No.)	Number of infant	10-2	Neo	natal mort	ality	Post-		Neo	natal mort	tality	Post-
group	the statement design of the statement of	deaths (under 1 year)	Infant mortality (under 1 year)	Under 4 weeks	Early (under 1 week)	Late (1 week and under 4 weeks)	neonatal mortality (4 weeks and under 1 year)	Infant mortality (under 1 year)	Under 4 weeks	Early (under 1 week)	Late (1 week and under 4 weeks)	neonatal mortality (4 weeks and under 1 year)
1923	All causes	17,118	100	71	61	10	29	1,000	1,000	1,000	1,000	1,000
	Congenital malformations (750–759)	3,549	100	64	42	22	36	207	185	141	451	263
	other than congenital malformations	8,670	100	99	95	4	1	506	704	789	188	17
Prenatal and	Intracranial and spinal injury at birth (760) Other birth injury (including maternal ante-	1,418	100	100	95	5	0	83	116	129	38	0
natal group (including	partum haemorrhage) (761)	407	100	100	98	1	0	24	33	38	3	0
congenital nalformations)	Postnatal asphyxia and atelectasis (762)	2,676	100	99	97	2	1	156	217	248	33	5
,	Attributed to maternal toxaemia (769)	135	100	99	98	1	1	8	11	13	1	0
	Erythroblastosis (770)	372	100	98	93	6	2	22	30	33	12	1
1956	Haemorrhagic disease of newborn (771)	204	100	100	89	11	0	12	17	17	13	0
their trees	Ill-defined diseases of early infancy (773)	390	100	96	90	6	4	23	31	34	15	3
1083 WHE TILL	Immaturity alone, or primary to diseases other than of early infancy (774, 776)	3,068	100	99	95	4	1	179	249	278	72	7

	Total causes mainly of postnatal origin	4,045	100	26	13	13	74	236	86	50	305	609
	Causes classified as infective (001–138) and others mainly infective in origin (340, 391–393, 470–483, 518, 519, 690–698, 765–768)	464	100	31	10	21	69	27	12	4	57	65
	Tuberculosis, other than tuberculous meningitis (001–008, 011–019)	7 3	100 100	14		14	86 100	0	_0	=	_1	1 1
Postnatal	infections and sepsis of newborn (053, 690-698, 765-768) Whooping cough and measles (056, 085)	84 32	100 100	74 6	27	46	26 94	5 2	5 0	_2	23	4 6
group	Meningococcal infections and non-meningococcal meningitis (057, 340)	175	100	31	10	21	69	10	4	2	22	25
	Causes classified as infective not specified above (rem. 001–138)	64	100	22	6	16	78	4	1	0	6	10
	Otitis media and mastoiditis, empyema and pleurisy (391–393, 518, 519)	50	100	14	12	14	86	3	1	-	4	9
	Acute upper respiratory infections and influenza (470–475, 480–483)	49	100	8	4	4	92	3	0	0	1	9
	Pneumonia and bronchitis (490–493, 763, 500–502)	2,772	100	27	15	13	73	162	62	39	206	408
	Gastro-enteritis (including diarrhoea of newborn) (571, 764)	343	100	13	1	13	87	20	4	0	25	60
	Accidental mechanical suffocation from vomit, food, foreign body, or in cot (E921-E925)	323	100	11	3	8	89	19	3	1	16	58
	Lack of care, neglect (including foundlings), infanticide (E926, E980–985)	60	100	75	73	2	25	4	4	4	1	3
	Other violent causes (rem. E800–E999)	83	100	16	13	2	84	5	1	1	1	14
	Total causes remaining	854	100	36	25	11	64	50	25	20	56	111
Unclassified	Neoplasms (140–239)	79	100	24	18	6	76	5	2	1	3	12
	Other remaining causes	775	100	37	25	12	63	45	24	19	53	99
Immaturity, (773·5)	or with mention of immaturity (774, 776, 760.5-	6,407	100	99	94	5	1	374	522	578	181	9
Immatur infancy	ity alone, or primary to diseases other than of early y (774, 776)	3,068	100	99	95	4	1	179	249	278	72	7
Immatur (760 · 5	ity associated with diseases of early infancy	3,339	100	100	94	6	0	195	273	300	109	2
All other causes		10,711	100	54	41	13	46	626	478	422	819	991

Table LV. Principal causes of death under 1 year in the neonatal, post-neonatal and other age periods, by sex, per 1,000 live births, 1960, England and Wales

Pariso Language	Exercising was masses in cars inhance	3 3 10	160	100	81	Infant mo	ortality per	1,000 live b	irths	300	103	
Aetiological	Cause of death (and ICD No.)		Total infant	Neonatal	Early neonatal	Late neonatal mortality	Post- neonatal mortality	Early n		Post-	-neonatal p	eriod
group	Meoplasms (140-239)		mortality (under 1 year)	mortality (under 4 weeks)	mortality (under 1 week)	(1 week and under 4 weeks)	(4 weeks and under 1 year)	Under 1 day	1 day and under 1 week	4 weeks and under 3 months	3 months and under 6 months	6 months and under 1 year
	All causes	{M F	24·52 18·92	17·76 13·16	15·37 11·20	2·40 1·96	6·76 5·76	8·53 6·49	6·83 4·71	2·78 2·30	2·24 1·95	1·74 1·52
	Congenital malformations (750–759)	$\big\{^M_F$	4·58 4·46	3·03 2·71	2·02 1·75	1·01 0·96	1·55 1·75	0·81 0·83	1·21 0·92	0·78 0·77	0·49 0·55	0·28 0·43
	Total causes mainly of prenatal and natal origin than congenital malformations	other { M { F	12·78 9·20	12·66 9·11	12·21 8·74	0·45 0·37	0·13 0·09	7·38 5·38	4·83 3·36	0·10 0·07	0.01	0.01
Personal and	Intracranial and spinal injury at birth (760)	$ {M \atop F}$	2·23 1·35	2·23 1·35	2·14 1·28	0·09 0·07	0.00	1·05 0·68	1·08 0·60	0.00		
Prenatal and natal group (including	Other birth injury (including maternal antepa haemorrhage) (761)	$ {M \atop F}$	0·62 0·41	0·61 0·41	0·61 0·40	0·01 0·01	0.00	0·48 0·29	0·13 0·11	0.00	=	= = 0
congenital malformations)	Postnatal asphyxia and atelectasis (762)	$ {M \brace F}$	3·95 2·84	3·91 2·80	3·84 2·74	0·08 0·07	0·03 0·03	2·20 1·73	1·63 1·01	0·02 0·02	0.00	0.01
Postantial Eroup	Attributed to maternal toxaemia (769)	$\dots \left\{ \begin{smallmatrix} M \\ F \end{smallmatrix} \right.$	0·21 0·14	0·21 0·13	0·20 0·13	0.00	0.00	0·10 0·07	0·10 0·06	0.00	= 1	= 0
	Erythroblastosis (770)	$ {M \brace F}$	0·49 0·45	0·48 0·45	0·46 0·42	0·03 0·03	0·01 0·01	0·31 0·30	0·15 0·12	0.00	0.00	0.00
	Haemorrhagic disease of newborn (771)	$ {M \brace F}$	0·31 0·21	0·31 0·21	0·27 0·19	0·03 0·02	0.00	0·07 0·06	0·20 0·12	0.00	()	= 1
	Ill-defined diseases of early infancy (773)	$ {M \brace F}$	0·57 0·42	0·54 0·41	0·51 0·38	0·03 0·03	0·02 0·01	0·25 0·18	0·26 0·19	0·02 0·01	0.00	0.00
	Immaturity alone, or primary to diseases other the early infancy (774, 776)	an of $\begin{cases} M \\ F \end{cases}$	4·41 3·37	4·36 3·34	4·19 3·20	0·17 0·14	0·06 0·03	2·90 2·06	1·28 1·13	0·05 0·03	0.00	

	Total causes mainly of postnatal origin $\dots \begin{Bmatrix} M \\ F \end{Bmatrix}$	5·85 4·41	1·59 1·06	0·82 0·50	0·77 0·56	4·26 3·36	0·18 0·15	0·64 0·35	1·58 1·32	1.51	1·17 0·86
	Causes classified as infective (001-138) and others \ M mainly infective in origin (340, 391-393, 470-483, 518, \ F 519, 690-698, 765-768)	0·67 0·51	0·21 0·15	0·07 0·05	0·14 0·11	0·46 0·36	0·01 0·01	0·06 0·04	0·15 0·12	0·14 0·11	0·17 0·13
	Pneumonia and bronchitis (490–493, 763, 500–502) ${M \atop F}$	3·99 3·05	1·16 0·77	0·64 0·39	0·52 0·38	2·83 2·27	0.09	0·55 0·31	1·11 0·94	1·01 0·83	0·71 0·50
Postnatal group	Gastro-enteritis (including diarrhoea of newborn) M (571, 764) K	0·52 0·35	0·08 0·03	0.01	0·07 0·03	0·44 0·31	8五	0.01	0·15 0·09	0·13 0·08	0·16 0·14
	Accidental mechanical suffocation from vomit, food, M foreign body, or in cot (E921-E925) F	0·45 0·38	0·05 0·04	0·02 0·00	0·03 0·04	0·40 0·33	0.00	0·02 0·00	0·15 0·14	0·19 0·13	0·06 0·06
	Lack of care, neglect (including foundlings), infanticide M (E926, E980-E985)	0·09 0·06	0·07 0·04	0·07 0·04	0.00	0·02 0·02	0·07 0·04	0.00	0.00	0·00 0·01	0·01 0·01
	Other violent causes (rem. E800–E999) $\dots {M \choose F}$	0·14 0·07	0·02 0·01	0·01 0·01	0.00	0·12 0·06	0.01	0.00	0·02 0·01	0·03 0·02	0.06
Medical Constitutions of the Constitution of t	Total causes remaining $\cdots \begin{Bmatrix} M \\ F \end{Bmatrix}$	1·31 0·86	0·49 0·29	0·32 0·22	0·17 0·07	0·82 0·57	0·16 0·14	0·16 0·08	0·32 0·14	0·23 0·21	0·27 0·21
Unclassified	Neoplasms (140–239) $\cdots \begin{Bmatrix} M \\ F \end{Bmatrix}$	0·10 0·10	0·02 0·02	0·02 0·02	0·01 0·01	0·08 0·08	0.01	0.01	0·02 0·01	0·02 0·03	0·04 0·04
	Other remaining causes $\cdots {M \choose F}$	1·20 0·76	0·47 0·26	0·30 0·20	0·16 0·07	0·74 0·49	0·15 0·12	0·15 0·07	0·30 0·14	0·21 0·19	0·23 0·17
Immaturity, or	with mention of immaturity (774, 776, 760 \cdot 5–773 \cdot 5) $\left\{ {\stackrel{M}{F}} \right\}$	9·40 6·84	9·34 6·80	8·92 6·43	0·43 0·36	0·06 0·05	5·47 3·82	3·44 2·61	0·06 0·04	0.00	21590 21 <u>54</u> 191
Immaturit	ty alone, or primary to diseases other than of early $\{M\}$ $\{774, 776\}$	4·41 3·37	4·36 3·34	4·19 3·20	0·17 0·14	0.06	2·90 2·06	1·28 1·13	0·05 0·03	0.00	=
	ty associated with diseases of early infancy $(760 \cdot 5 - 773 \cdot 5) \left\{ \frac{M}{F} \right\}$	4·99 3·47	4·99 3·46	4·73 3·24	0·26 0·22	0·00 0·02	2·57 1·76	2·16 1·48	0·00 0·02	30-	100
All other cause	es $\binom{M}{F}$	15·12 12·08	8·42 6·36	6·45 4·77	1.97	6·70 5·72	3·06 2·67	3·39 2·10	2·72 2·26	2·24 1·95	1·74 1·52

Table LVI. Stillbirths per 1,000 total births, and infant deaths per 1,000 live births in the early neonatal, late accountal and post-monatal periods, and from the principal causes of infant mortality; comparison of annual and quarterly rates, 1966, England and Wales

Table LVI. Stillbirths per 1,000 total births, and infant deaths per 1,000 live births in the early neonatal, late neonatal and post-neonatal periods, and from the principal causes of infant mortality; comparison of annual and quarterly rates, 1960, England and Wales

NH THESE STREET	() () () () () () () () () ()	Annual		Quarter	rly rates	18	Quar		per cent of ates	annual
Aetiological group	Cause of death and ICD No.)	(per 1,000 live births)	Jan. to March	April to June	July to Sept.	Oct. to Dec.	Jan. to March	April to June	July to Sept.	Oct. to Dec.
Stillbirths (late for	oetal deaths at or over 28 weeks' gestation)	19.75	19.92	20.14	19.29	19.65	101	102	98	99
Late neonatal de	eaths (infant deaths at ages under 1 week)	13·34 2·19 6·28	13·45 2·51 7·31	12·85 2·11 5·72	13·13 1·91 4·53	13·97 2·22 7·60	101 115 116	96 96 91	98 87 72	105 101 121
nfant deaths (to	tal under 1 year)	21 · 81	23 · 27	20.68	19.58	23 · 78	107	95	90	109
	Congenital malformations (750–759) Total causes mainly of prenatal and natal origin, other than congenital	4.52	4 · 48	4.45	4.39	4.77	99	98	97	106
	malformations	11.04	11.13	10.50	10.97	11.61	101	95	99	105
Prenatal and natal group (including congenital nalformations)	Intracranial and spinal injury at birth (760) Other birth injury (including maternal antepartum haemorrhage) (761) Postnatal asphyxia and atelectasis (762) Attributed to maternal toxaemia (769) Erythroblastosis (770) Haemorrhagic disease of newborn (771) Ill-defined diseases of early infancy (773) Immaturity alone, or primary to diseases other than of early infancy (774, 776)	1·81 0·52 3·41 0·17 0·47 0·26 0·50 3·91	1·83 0·48 3·48 0·11 0·47 0·30 0·41 4·05	1·54 0·50 3·24 0·16 0·50 0·24 0·50	1·86 0·49 3·54 0·19 0·42 0·25 0·54	2·01 0·61 3·37 0·23 0·50 0·25 0·54 4·10	101 92 102 65 100 115 82	85 96 95 94 106 92 100	103 94 104 112 89 96 108	111 117 99 135 106 96 108
"The public and	Total causes mainly of postnatal origin	5 · 15	6.51	4.72	3 · 27	6.15	126	92	63	119
Postnatal group	Causes classified as infective (001–138); others mainly infective in origin (340, 391–393, 470–483, 518, 519, 690–698, 765–768) Pneumonia and bronchitis (490–493, 763, 500–502)	0·59 3·53 0·44 0·41 0·08 0·11	0·71 4·60 0·54 0·50 0·04 0·11	0·63 3·06 0·43 0·39	0·39 2·10 0·31 0·33 0·08 0·07	0·64 4·39 0·46 0·43 0·10 0·14	120 130 123 122 50 100	107 87 98 95 100 100	66 59 70 80 100 64	108 124 105 105 125 127
	Total causes remaining	1.09	1.15	1.02	0.94	1.26	106	94	86	116
Unclassified	Neoplasms (140–239)	0·10 0·99	0·13 1·02	0·08 0·94	0·07 0·87	0·13 1·13	130 103	80 95	70 88	130 114
mmaturity, or v	with mention of immaturity (774, 776, 760 · 5–773 · 5)	8 · 16	8 · 28	7.75	7.92	8 · 73	101	95	97	107
Immaturity ald Immaturity as	one, or primary to diseases other than of early infancy (774, 776) sociated with diseases of early infancy (760·5–773·5)	3·91 4·25	4·05 4·24	3·81 3·94	3·68 4·24	4·10 4·62	104 100	97 93	94 100	105 109
all other causes		13.64	14.98	12.93	11.66	15.06	110	95	85	110

Table LVII. Infant deaths at various ages per 1,000 live births, and combined stillbirths and infant deaths per 1,000 total births, in standard regions, conurbations, and urban and rural aggregates within regional groups, 1960, England and Wales

Criber areas with populations of 50,000 and anier 100,000. Utbell areas with populations ander section.	18-31	15 10	11-13	Infant mo	ortality per	1,000 live	e births	1-03	1:00	1-49	Stillbi	rths and i	nfant dea 0 total bir	ths. Raths	tes per
	Total infant	Neo- natal	Early neonatal	Late neonatal morta-	Post- neonatal morta-		eonatal	P	ost-neonat period	al	Still- births plus	Still- births (late foetal	Still- births plus	Infant deaths	Still- births plus
(excesses overse cosmon) Regions: Lendon and South Eastern (encluding Greater London) Southern South Western	morta- lity (under 1 year)	morta- lity (under 4 weeks)	morta- lity (under	lity	lity (4 weeks and under	Under 1 day	1 day and under 1 week	and under	3 months and under 6 months	and under	infant	deaths at or over 28 weeks' gesta- tion)		at 1 week and over	infant deaths under 4 weeks
ENGLAND AND WALES	21 · 81	15.53	13 · 34	2 · 19	6.28	7.54	5 · 80	2.55	2.10	1.63	41 · 13	19.75	32.83	8.30	34.98
Urban and rural aggregates: Conurbations	22.52	16.00	13.87	2.13	6.52	8.07	5.80	2.73	2.22	1.57	41 · 48	19.39	33.00	8 · 48	35.09
Areas outside conurbations: Urban areas with populations of 100,000 and over	22.96	16.24	13.78	2.46	6.72	7.57	6.22	2.66	2.38	1.69	42.59	20.08	33.59	9.00	36.00
50 000 and under 100,000	21 · 48	15.11	12.89	2.22	6.38	7.08	5.80	2.49	2.05	1.83	40.94	19.88	32.51	8 · 43	34.69
Urban areas with populations under 50,000	21·78 19·87	15·46 14·42	13·23 12·37	2·23 2·04	6·31 5·45	7·32 6·96	5·91 5·41	2·57 2·11	2·03 1·79	1·71 1·55	41·95 38·65	20·62 19·17	33·58 31·30	8·37 7·35	35·77 33·30
NORTH OF ENGLAND	24.76	17.10	14.61	2.50	7.66	8 · 51	6.09	3.30	2.56	1.80	46.11	21 · 89	36.17	9.93	38 · 61
Regions: Northern East and West Ridings North Western	24·66 22·99 25·90	17·43 15·99 17·62	14·81 13·76 15·02	2·61 2·23 2·60	7·24 7·01 8·28	8·33 8·00 8·92	6·48 5·76 6·10	3·00 3·04 3·61	2·61 2·33 2·68	1·63 1·64 1·99	46·36 43·38 47·65	22·25 20·87 22·33	36·73 34·34 37·01	9·63 9·04 10·63	39·28 36·52 39·56
Conurbations: Tyneside West Yorkshire South East Lancashire Merseyside	24·15 24·39 26·13 27·33	17·56 16·79 17·99 17·34	14·83 14·44 15·47 14·87	2·73 2·35 2·53 2·47	6·59 7·60 8·14 9·99	8·43 8·84 9·24 9·11	6·40 5·60 6·22 5·76	2·09 2·90 3·63 4·59	2·85 2·80 2·76 3·28	1·65 1·90 1·75 2·12	45·51 44·30 47·81 48·53	21·89 20·41 22·26 21·80	36·40 34·55 37·38 36·34	9·12 9·75 10·43 12·19	39·06 36·85 39·85 38·76
Areas outside conurbations: Urban areas with populations of	1019	The state of	11.02	2.54	7.92	7.89	6.14	3.14	2.61	2.18	45.81	21.85	35.57	10.23	38.06
100,000 and over	24 · 49	16.57	14.03	2.54	6.68	8.20	6.27	3 14	1.98	1.51	44.71	21.46	35.61	9.10	38 · 17
50,000 and under 100,000 Urban areas with populations under 50,000	23·76 24·90 21·92	17·07 17·50 15·67	14·46 14·79 13·60	2·61 2·70 2·06	7·41 6·25	8·25 7·94	6·55 5·66	3·38 2·75	2·46 1·75	1·56 1·75	46·86 43·54	22·52 22·11	36·98 35·41	9·88 8·13	39·62 37·43

121

H*

E* 2

Table LVIII. Infant deaths per 1,000 live births in regional groups from the principal causes of infant mortality; regional group rates as percentages of corresponding national rates, 1960, England and Wales

Infant mortality per 1,000 live births

Post-

neonatal

morta-

lity

(4 weeks

and under

1 year)

6.55

7·02 6·17

6.20

7.16

7.94

7·04 5·53

5.16

5·29 5·30 4·82 5·24

5.25

5.52

5·07 5·06

5.11

Early neonatal period

Under

1 day

7.39

6·96 7·24

7.68

8.18

7.60

7·59 6·30

6.65

6·43 6·75 7·01 6·43

6.67

6.11

6·52 6·97

7.38

1 day and

under

1 week

6.32

5·62 6·14

 $6 \cdot 22$

6.74

6.84

6·38 5·89

5.18

5·00 4·98 5·47 5·23

5.76

5.06

5·15 4·99

5.52

and

2.35

2·47 2·36 2·28

2.30

2.85

2.62

2·55 1·73

2.05

2·36 2·04 1·95 1·94

2.05

1.97

2·05 2·09

2.22

Post-neonatal

period

4 weeks 3 months 6 month

and

under

2.32

2·40 2·55 2·10

2.21

2.65

2.79

2·28 2·09

1.67

1·52 1·73

1·61 1·79

1.91

1.79

1.57

1.62

1.62

months 6 months

and

under

1 year

1.89

1·74 2·12 1·79

1.69

1.66

2.53

 $\substack{2\cdot 21\\1\cdot 71}$

1.43

1·41 1·53 1·26 1·51

1.28

1.76

1·45 1·35

1.27

Late

neonatal

morta-

lity

(1 week

and

under

2.42

2·76 2·23 2·37

1.83

3.07

3.04

2·43 2·27

1.79

1.81 1.95 1.68

1.77

1.62

1.89

1.91

Total

infant

morta-

lity (under

1 year)

22 - 67

25·30 21·83 21·92

21.94

25.15

25 - 43

23·44 19·99

18.78

18·44 18·84 19·25 18·57

19.44

18.31

18.91

19.93

Neo-

natal

morta-

lity (under

4 weeks)

16.12

14·81 15·76

15.74

17.99

17.49

16·40 14·45

13.63

13·15 13·54 14·43 13·33

14.20

12.79

13.85

14.81

Early

neonatal

morta-

lity (under

1 week)

13.71

15·92 12·58 13·39

13.91

14.91

14.45

 $13.97 \\ 12.18$

11.83

12.43

11.17

11.68

11.97

12.90

Stillbirths and infant deaths. Rates per 1,000 total births

Still-

births

plus infant

deaths

under

1 week

34.84

39.13

32·93 34·01

34.21

36.24

38 · 26

35·95 32·31

29.08

28·34 27·75 30·51 29·38

29.18

28.01

29·63 28·88

29.73

Infant deaths

1 week

and

over

8.77

9·16 9·06 8·36

7.87

10.01

10.72

9·26 7·65

6.83

6·90 7·00 6·65 6·80

6.89

7.01

6·72 6·83

6.91

Still-

births

plus infant

deaths

under

4 weeks

37 - 20

36.01

39.25

41.22

 $38 \cdot 33 \\ 34 \cdot 53$

30.84

30·04 29·54 32·42 31·03

30.91

29.60

31·37 30·73

31.61

Still-

births

(late

foetal

deaths at

or over 28 weeks'

gestation)

21 - 43

23·58 20·60 20·91

20.59

21.65

24.16

22·29 20·37

17.45

17·12 16·22 18·25 17·94

16.96

17.03

18·17 17·12

17.05

Still-

births

plus infant

deaths

under

1 year

43.61

41.99

42.08

46.25

48.97

45·21 39·95

35.90

35·24 34·75 37·15 36·18

36.07

35.02

36·35 35·31

36.64

All other causes		13-64	Rates pe	er 1,000 live	e births	11-82	Reg	gional groug England at	p rates per ond Wales ra	cent
Aetiological group	Cause of death (and ICD No.)	England and Wales	North of England	Wales and Midlands	South and East of England (excluding Greater London)	Greater London	North of England	Wales and Midlands	South and East of England (excluding Greater London)	Greate
500000000000000000000000000000000000000	All causes	21.81	24.76	22.67	18 · 78	19.93	114	104	86	91
	Congenital malformations (750–759)	4 · 52	4.90	4.76	4.24	3.91	108	105	94	87
	Total causes mainly of prenatal and natal origin other than congenital malformations	11.04	12.19	11.27	9.60	10.90	110	102	87	99
	Intracranial and spinal injury at birth (760)	1.81	2.09	1.89	1.54	1 · 58	115	104	85	87
Prenatal	Other birth injury (including maternal antepartum haemorrhage) (761)	0.52	0.54	0.49	0.51	0.54	104	94	98	104
and natal group	Postnatal asphyxia and atelectasis (762)	3 · 41	3.52	3.99	2.75	3 · 42	103	117	81	100
(including congenital	Attributed to maternal toxaemia (769)	0.17	0.13	0.20	0.23	0.13	76	118	135	76
malformations)	Erythroblastosis (770)	0.47	0.43	0.46	0.45	0.61	91	98	96	130
	Haemorrhagic disease of newborn (771)	0.26	0.25	0.26	0.20	0.37	96	100	77	142
	Ill-defined diseases of early infancy (773)	0.50	0.61	0.49	0.34	0.55	122	98	68	110
	Immaturity alone, or primary to diseases other than of early infancy (774, 776)	3.91	4.62	3 · 49	3.59	3.70	118	89	92	95
	Total causes mainly of postnatal origin	5 · 15	6.51	5 · 37	3.98	4 · 20	126	104	77	82
	Causes classified as infective (001–138) and others mainly infective in origin (340, 391–393, 470–483, 518, 519, 690–698, 765–768)	0.59	0.68	0.63	0.50	0.52	115	107	85	88
Postnatal group	Tuberculosis, other than tuberculous meningitis (001–008, 001–019)	0.01	0.02	-	0.00	0.02	200	-	50	200
	Tuberculous meningitis (010)	0.00	- N	0.01	0.00	4-0		250	125	-
	Septicaemia, skin and subcutaneous tissue infections and sepsis of newborn (053, 690–698, 765–768)	0.11	0.15	0.07	0.07	0.13	136	64	64	118
	Whooping cough and measles (056, 085)	0.04	0.05	0.06	0.02	0.03	125	150	50	75

Table LVIII—continued

	Taberators semigratus total	0.79	Rates pe	er 1,000 live	e births		Reg of	gional grou England a	p rates per ond Wales ra	cent te
Aetiological group	Cause of death (and ICD No.)	England and Wales	North of England	Wales and Midlands	South and East of England (excluding Greater London)	Greater London	North of England	Wales and Midlands	South and East of England (excluding Greater London)	Greater
Postnatal group-(contd.)	Meningococcal infections and non-meningococcal meningitis (057, 340)	0.22	0.23	0.24	0.22	0.20	105	109	100	91
	Causes classified as infective not specified above (rem. 001-138)	0.08	0.10	0.13	0.04	0.05	125	162	50	62
	Otitis media and mastoiditis, empyema and pleurisy (391–393, 518, 519)	0.06	0.06	0.05	0.08	0.07	100	83	133	117
	Acute upper respiratory infections, and influenza (470–475, 480–483)	0.06	0.08	0.08	0.05	0.04	133	133	83	67
SAN AND SAN	Pneumonia and bronchitis (490–493, 763, 500–502)	3.53	4.45	3.66	2.62	3 · 10	126	104	74	88
	Gastro-enteritis (including diarrhoea of newborn) (571, 764)	0.44	0.72	0.42	0.27	0.20	164	95	61	45
	Accidental mechanical suffocation from vomit, food, foreign body, or in cot (E921–E925)	0.41	0.50	0.45	0.39	0.23	122	110	95	56
The Court	Lack of care, neglect (including foundlings), infanticide (E926, E980–E985)	0.08	0.08	0.07	0.09	0.05	100	88	112	62
	Other violent causes (rem. E800–E999)	0.11	0.08	0.13	0.11	0.11	73	118	100	100
T	Total causes remaining	1.09	1.16	1.27	0.96	0.91	106	117	88	83
Unclassified	Neoplasms (140–239) Other remaining causes	0·10 0·99	0·10 1·06	0·09 1·18	0·10 0·85	0·11 0·80	100 107	90 119	100	110 81
	ith mention of immaturity (774, 776, 760 · 5–773 · 5)	8.16	9.18	8 · 42	6.81	8.07	112	103	83	99
minaturity ass	one, or primary to diseases other than of early infancy (774, 776)	3·91 4·25	4·62 4·55	3·49 4·94	3·59 3·22	3·70 4·37	118 107	89 116	92 76	95 103
All other causes		13 · 64	15.58	14.25	11.97	11.85	114	104	88	87

Table LIX. Trend of stillbirths, per 1,000 total births, and of deaths in the neonatal, and post-neonatal periods per 1,000 live births, in standard regions, 1956 to 1960, England and Wales

				in each				es in 19: ent of r		
		1956	1957	1958	1959	1960	1957	1958	1959	1960
CONTROL OF THE PARTY OF THE PAR	ENGLAND AND WALES	22.9	22.5	21.5	20.8	19.8	98	94	91	86
SIGNATURE CHE	NORTH OF ENGLAND Northern East and West Ridings North Western	24·7 24·8 22·7 25·8	25·6 25·6 23·5 25·7	23·5 23·0 22·7 24·4	22·3 22·4 20·9 23·2	21·9 22·3 20·9 22·3	101 103 104 100	95 93 100 95	90 90 92 90	89 90 92 86
Stillbirths (at or over 28 weeks' gestation) per 1,000	WALES AND MIDLANDS Wales North Midland Midland	25·0 26·8 24·8 24·1	23·4 25·8 22·0 23·0	23·8 26·3 22·9 23·0	23·1 26·3 21·2 22·9	21·4 23·6 20·6 20·9	94 96 89 95	95 98 92 95	92 98 85 95	86 88 83 87
total births	SOUTH AND EAST OF ENGLAND (excluding Greater London) London and South East-	21.1	20.3	18.7	18.7	17.5	96	89	89	83
	ern (excluding Greater London)	19·5 20·9 23·3 20·4	20·0 19·3 21·4 20·4	18·2 17·4 20·4 18·8	18·6 18·1 19·7 18·5	17·1 16·2 18·3 17·9	103 92 92 100	93 83 88 92	95 87 85 91	88 78 79 88
ERRI I	GREATER LONDON	19.3	19.5	18.9	17.9	17.1	101	98	93	89
	ENGLAND AND WALES	16.8	16.5	16.2	15.9	15.5	98	96	95	92
	NORTH OF ENGLAND Northern East and West Ridings North Western	18·6 18·9 18·5 18·6	17·7 18·6 17·2 17·5	18·1 18·6 17·2 18·4	17·5 18·0 16·7 17·8	17·1 17·4 16·0 17·6	95 98 93 94	97 98 93 99	94 95 90 96	92 92 86 95
Neonatal mortality per 1,000	WALES AND MIDLANDS Wales	18·1 20·6 16·9 17·6	17·8 20·0 16·4 17·6	17·0 18·9 15·8 16·9	16·8 19·6 15·2 16·6	16·1 18·7 14·8 15·8	98 97 97 100	94 92 93 96	93 95 90 94	89 91 88 90
live births	SOUTH AND EAST OF ENGLAND (excluding Greater London) London and South East-	14.9	14.8	13.9	13.6	13.6	99	93	91	91
ELECT OF C	ern (excluding Greater London)	14·9 15·0 15·0 14·8	14·6 14·8 15·7 14·1	13·4 14·8 14·7 13·1	13·7 13·3 13·6 13·6	13·2 13·5 14·4 13·3	98 99 105 95	90 99 98 89	92 89 91 92	89 90 96 90
SE I	GREATER LONDON	14.5	14.8	14.7	15.1	14.8	102	I01	104	102
OTEN IN	ENGLAND AND WALES	6.8	6.7	6.4	6.3	6.3	99	94	93	93
5020	NORTH OF ENGLAND Northern East and West Ridings North Western	8·1 8·1 7·6 8·3	8·1 8·2 7·8 8·3	7·3 7·0 7·2 7·6	7·4 7·2 7·6 7·4	7·7 7·2 7·0 8·3	100 101 103 100	90 86 95 92	91 89 100 89	95 89 92 100
Post-neonatal mortality per 1,000	WALES AND MIDLANDS Wales North Midland Midland	7·4 8·1 7·3 7·1	7·2 8·4 6·6 7·0	6·9 7·6 6·8 6·7	6·7 6·7 6·7 6·8	6·6 6·6 7·0 6·2	97 104 90 99	93 94 93 94	91 83 92 96	89 81 96 87
live births	SOUTH AND EAST OF ENGLAND (excluding Greater London) . London and South East-	5.7	5.4	5.5	5.3	5.2	95	96	93	91
	ern (excluding Greater London)	6·7 5·5 5·2 5·7	5·4 5·4 5·3 5·7	5·3 5·5 6·2 5·0	5·4 5·6 5·4 5·0	5·3 5·3 4·8 5·2	81 98 102 100	79 100 119 88	81 102 104 88	79 96 92 91
	GREATER LONDON	5.3	5.0	5.2	5.4	5.1	94	98	102	96

Table LX. Maternal mortality: Deaths from principal causes, and

						P.	egnancy, chil		
	Puerperal phlebitis, thrombo- sis and embolism	Puerperal sepsis	Ante- partum haemor- rhage	Post- partum haemor- rhage	Toxaemia	Pro- longed labour	Trauma, shock: other complica- tion of delivery	Other causes	Total materna causes other than abortion
ICD No.	682, 684	640, 641, 681	643, 644, 670	671, 672	642, 685, 686	673–675	676–678	Rem. 640–648 660–689	640–648 660–689
1931 1932 1933 1934 1935	215 226 206 188 192	712 628 694 800 647	3 3 3	30 34 10 04 92	494 511 508 538 488	30 TSA	507 514 533 537 507	SOAL S	2,258 2,213 2,251 2,367 2,126
1936 1937 1938	183 152 178	561 347 277	30	02 07 12	510 510 472	Poleofilla B B II	455 457 503		2,011 1,773 1,742
1939	154	248	117	179	478	P.OK	467	GREON	1,643
1940	134	195	106	180	398	125	111	124	1,373
1941 1942 1943 1944 1945	134 128 136 107 86	141 151 132 105 82	101 210 87 198 86 187 84 179 68 158		381 410 375 328 321	155 158 165 176 148	109 94 106 87 72	122 133 112 113 92	1,353 1,359 1,299 1,179 1,027
1946 1947 1948 1949 1950	102 110 67 56 62	53 33 33 32 26	85 56 46 38 44	162 156 115 90 38	359 312 249 199 185	117 110 66 69 42	83 63 55 60 54	91 77 55 65 66	1,052 917 686 609 517
1951 1952 1953 1954 1955	49 52 49 51 55	16 10 17 13 17	35 19 39 32 24	53 39 51 44 41	141 122 143 104 91	38 32 31 32 31	37 43 34 41 23	50 56 55 53 57	419 373 419 370 339
1956 1957 1958 1959 1960	32 32 40 30 27	13 18 13 17 8	33 27 25 21 25	24 22 33 23 19	93 77 66 57 63	34 27 21 18 26	15 23 20 26 36	58 46 47 51 44	302 272 265 243 248

^{*} Note. *Excludes* the following cases in which it was stated that death followed the maternal 1955–34, 1956–25, 1957–16, 1958–22, 1959–21, 1960–26.

associated maternal mortality, 1931 to 1960, England and Wales

cluding	abortion)						ATED MA' ORTALIT		
	Abor	Spont	aneous other	Abortion	Total*	Associated with maternal causes	Associ- ated with	Total associ- ated	Total attributed to, or associated with, maternal
With sepsis	Without mention of sepsis	With sepsis	Without mention of sepsis	forms	mortality	other than abortion	abortion	mortality	causes
651 · 2	650·2 652·2	Rem. 651	Rem. 650, 652	650–652	640–689	atra Legis		N 640 C	6.3
52	27	229	140	448	2,706	834	77	911	3,617
46	23	262	139	470	2,683	623	90	713	3,396
56	29	257	144	486	2,737	731	97	828	3,565
67	33	295	118	513	2,880	683	64	747	3,627
64	30	262	108	464	2,590	638	74	712	3,302
49	24	242	105	420	2,431	541	70	611	3,042
56	28	176	109	369	2,142	585	104	689	2,831
54	26	173	101	354	2,096	449	81	530	2,626
80	28			354	1,997	429	49	478	2,475
43	33 116 76		76	268	1,641	368	56	424	2,065
66	24	145	90	325	1,678	358	47	405	2,083
64	12	175	62	313	1,672	363	49	412	2,084
76	15	166	64	321	1,620	437	57	494	2,114
75	7	168	63	313	1,492	383	52	435	1,927
65	9	109	50	233	1,260	342	19	361	1,621
41	5	69	42	157	1,209	353	37	390	1,599
37	3	54	49	143	1,060	264	44	308	1,368
34	4	55	32	125	811	231	16	247	1,058
20	9	58	31	118	727	157	19	176	903
25	21	39	18	103	620	180	21	201	821
33	26	34	14	107	526	151	9	160	686
19	28	28	15	90	463	153	8	161	624
17	24	22	13	76	495	121	7	128	623
10	25	22	19	76	446	116	5	121	567
17	15	21	15	66	405	108	7	115	520
20	16	20	16	72	374	119	6	125	499
15	15	18	13	61	333	122	6	128	461
8	12	27	16	63	328	94	4	98	426
13	10	16	8	47	290	75	7	82	372
12	18	21	11	62	310	70	5	75	385

condition after an interval of more than 12 months: 1951-40, 1952-35, 1953-32, 1954-34,

Table LXI. Maternal mortality, distinguishing principal causes, and 1931 to 1960,

		MAT	TERNAL M	1ORTALIT	Y (complica	tions of pro	egnancy, chil	dbirth and p	ouerperiun
	Puerperal phlebitis, thrombo- sis and embolism	Puerperal sepsis	Ante- partum haemor- rhage	Post- partum haemor- rhage	Toxaemia	Pro- longed labour	Trauma, shock: other complica- tion of delivery	Other causes	Total materna causes other than abortion
ICD No.	682, 684	640, 641, 681	643, 644, 670	671, 672	642, 685, 686	673–675	676–678	Rem. 640–648 660–689	640–648 660–689
1931 1932 1933 1934 1935	33 35 34 30 31	108 98 115 128 104	5, 5, 5, 4, 4,	2 1 9	75 80 84 86 78		77 80 88 86 81	100 100 100 100 100 100 100 100 100 100	343 346 372 380 341
1936 1937 1938	29 24 28	89 55 43	4 4 4	8	81 80 73		72 72 78		319 279 270
1939	24	39	18	28	75		73		257
1940	22	32	17	29	65	20	18	20	224
1941 1942 1943 1944 1945	22 19 19 14 12	24 22 19 14 12	17 13 12 11 10	35 29 27 23 23	64 61 53 42 46	26 23 23 23 23 21	18 14 15 11 10	20 20 16 15 13	226 202 184 153 147
1946 1947 1948 1949 1950	12 12 8 7 9	6 4 4 4 4	10 6 6 5 6	19 17 14 12 5	43 35 31 27 26	14 12 8 9 6	10 7 7 8 8	11 9 7 9	125 102 86 81 72
1951 1952 1953 1954 1955	7 8 7 7 8	2 1 2 2 2 2	5 3 6 5 4	8 6 7 6 6	20 18 20 15 13	5 5 4 5 5	5 6 5 6 3	7 8 8 8 8	60 54 60 54 50
1956 1957 1958 1959 1960	4 4 5 4 3	2 2 2 2 2 1	5 4 3 3 3	3 3 4 3 2	13 10 9 7 8	5 4 3 2 3	2 3 3 3 4	8 6 6 7 5	42 37 35 32 31

Note. Figures for 1931 to 1938 are based on live and still birth registrations, and from

associated maternal mortality. Death rates per 100,000 total births, England and Wales

cluding	abortion)				not be	ASSOCI N	ATED MAT MORTALIT	TERNAL Y	
Crin	Abor ninal rtion	Sponta	aneous other	Abortion	Total* maternal	Associated with maternal causes	Associ- ated with	Total associ- ated	Total attributed to, or associated with, maternal
With	Without mention of sepsis	With	Without mention of sepsis	forms	mortality	other than abortion	abortion	mortality	causes
651 · 2	650·2 652·2	Rem. 651	Rem. 650. 652	650, 652	640-689	20 m	***	205 205 205 205	
8 7 9 11 10	4 4 5 5 5 5	35 41 42 47 42	21 22 24 19 17	68 73 80 82 74	411 419 452 462 415	127 97 121 110 102	12 14 16 10 12	138 111 137 120 114	549 530 589 582 529
8 9 8	4 4 4	38 28 27	17 17 16	67 58 55	386 337 324	86 92 70	11 16 13	97 108 82	483 446 407
13	4	26	12	55	313	67	8	75	387
7	5	19	12	44	268	60	9	69	337
11 9 11 10 9	4 2 2 1 1	24 26 24 22 16	15 9 9 8 7	54 46 45 41 33	280 248 230 193 180	60 54 62 50 49	8 7 8 7 3	68 61 70 56 52	347 309 300 249 232
5 4 4 3 4	1 0 1 1 3	8 6 7 8 5	5 5 4 4 3	19 16 16 16 16	143 117 102 97 87	42 29 29 21 25	4 5 2 3 3	46 34 31 24 28	190 152 133 121 115
5 3 2 1 2	4 4 3 4 2	5 4 3 3 3	2 2 2 3 2	15 13 11 11 11 10	76 67 71 65 59	22 22 17 17 16	1 1 1 1	23 23 18 18 17	99 91 89 82 70
3 2 1 2 1	2 2 2 1 2	3 2 4 2 3	2 2 2 1 1	10 8 8 6 8	52 45 43 38 39	17 16 12 10 9	1 1 1 1 1	17 17 13 11 9	70 62 56 49 48

1939 onwards on occurrences.

* See footnote to Table LX.

Table LXII. Maternal mortality: Deaths attributed to or associated with abortion, 1931 to 1960, England and Wales

danie bamac	it F	induc	neous or ced for tic reasons	non-the	ed for rapeutic sons	Total attributed to	Others	Total attributed to, or	Percentage of deaths due to abortion
butano ,dak fisiosia sucan		With sepsis	Without sepsis	With sepsis	Without sepsis*	abortion (including criminal)	with abortion	associated with, abortion	which had mention of sepsis
1025		229 262 257 295 262	140 139 144 118 108	52 46 56 67 64	27 23 29 33 30	448 470 486 513 464	77 90 97 64 74	525 560 583 577 538	63 66 64 71 70
1937 1938 1939		242 176 173 167 116	105 109 101 79 76	49 56 54 80 43	24 28 26 28 33	420 369 354 354 268	70 104 81 49 56	490 473 435 403 324	69 63 64 70 59
1942 1943 1944		145 175 166 168 109	90 62 64 63 50	66 64 76 75 65	24 12 15 7 9	325 313 321 313 233	47 49 57 52 19	372 362 379 367 253	65 76 75 78 75
1947 . 1948 . 1949 .		69 54 55 58 39	42 49 32 31 18	41 37 34 20 25	5 3 4 9 21	157 143 125 118 103	37 44 16 19 21	194 184 139 137 124	70 64 71 66 62
1952 . 1953 . 1954 .		34 28 22 22 19	14 15 13 19 15	33 19 17 10 17	26 28 24 25 15	107 90 76 76 66	9 8 7 5 7	116 98 83 81 75	63 52 51 42 56
1957 . 1958 . 1959 .	• • • • • • • • • • • • • • • • • • • •	20 18 27 16 21	16 13 16 8 11	20 15 8 13 12	16 15 12 10 18	72 61 63 47 62	6 6 4 7 5	78 67 67 54 67	56 54 56 62 53

^{*} Deaths due to attempted abortion, formerly classed to accidental causes, are included for years 1950 onwards.

Now . M.J. slduff of elementation * Sea Township to Table LM.

Table LXIII. Deaths of women certified as due to pregnancy or childbearing, by age and cause, 1960, England and Wales

No.	Cause of death	ages	15-	20-	25-	30-	35-	40-	ove
40-648	Complications of pregnancy	99	6	19	24	23	22	5	
640	Pyelitis and pyelonephritis of pregnancy	1	-		1	-	-	-	-
641	Other infections of genito-urinary tract		The state of	and make			1	903	THE .
0.12	during pregnancy	_				-	_	-	-
642	Toxaemias of pregnancy	60	6	12	14	13	12	3	_
643	Placenta praevia	-	13 192			_			_
644	C	1	-	1			_		
		17		2	5	7	2	1	1
645	Ectopic pregnancy	2		1	_	1			
646	Anaemia of pregnancy	2		1	DESCRIPTION OF THE PARTY OF THE	1			198
647	Pregnancy with malposition of foetus in			THE REAL PROPERTY.		100 100			100
	uterus			-	1018	lagger	11.76	7.7	100
648	Other complications arising from				lone.	-	0		1-10/
	pregnancy	18	-	3	4	2	8	1	-
50-652	Abortion	62	3	12	18	13	11	4	26
650	Abortion without mention of sepsis or					The same			The same
000	toxaemia	23	-	4	8	6	4	1	-
651	Abortion with sepsis	33	3	8	6	6	6	3	
652	Abortion with toxaemia, without mention								
032		6		13/23/26	4	1	1		
((0	of sepsis	3		1	12070	1	1		1_
660	Delivery without mention of complication	105	4	8	23	31	26	12	
670-678	Delivery with specified complication	103	4	0	23	31	20	12	
670	Delivery complicated by placenta praevia	1	1300	Ship	1	-	1	1	
	or antepartum haemorrhage	24	-	-	6	7	4	6	
671	Delivery complicated by retained placenta	7	1	1	2	1	2	-	-
672	Delivery complicated by other post-	100			· ·	1000	1993		
	partum haemorrhage	12	2	1	2	5	2	-	-
673	Delivery complicated by abnormality of	1	1344		1		1		
0.5	bony pelvis	2	-	_	1	1	_	-	-
674	Delivery complicated by disproportion	-	13939	- PERE			1		1
0/4	or malposition of foetus	10	1019	1	3	3	2	1.	-
(75	Delivery complicated by prolonged	10	PATER	1	1	1	-	1.	HES
675		14	HEL SE	1	3	5	4	1	100
	labour of other origin	14	No The	1	3)	1	1	131
676	Delivery with laceration of perineum,					Mirro			
	without mention of other laceration	1	11 -	-	-	-	-	-	
677	Delivery with other trauma	16	-	1	1	4	7	3	1
678	Delivery with other complications of						1000		1
	childbirth	20	1	3	5	5	5	1	18
680-689	Complications of the puerperium	41	-	9	8	11	9	3	ST
680	Puerperal urinary infection without other								
000		1		1					
601	Sepsis of childbirth and the puerperium	7		1		3	3		
681			A PLEASE	3	5	5	4		
682	Puerperal phlebitis and thrombosis	19	, -	3	3	3	4	4	
683	Pyrexia of unknown origin during the						10.004	4	-00
	puerperium	-	-	-	100				1
684	Puerperal pulmonary embolism		-	3	2	1	1	1	
685	Puerperal eclampsia	2	-	-	The state of	2	1	-	
686	Other forms of puerperal toxaemia	1	-	_	1		-	-	
687	Cerebral haemorrhage in the puerperium	2	-	1	1	Salar Salar	-	-	-
688	Other and unspecified complications of	3 300							
A STATE OF THE PARTY OF THE PAR	the puerperium	1	1	-	-	-	1	-	
689	Mastitis and other disorders of lactation		-	-	_	-			
(Deliveries and complications of pregnancy,			×			The state of		
640-648	childbirth, and the puerperium (exclud-								
	ing abortion)	248	10	37	55	66	58	3 20	,
640-689	Deliveries and complications of pregnancy,				1		Water State of the		
	childbirth, and the puerperium (includ-								
	ing abortion)	310	13	49	73	3 79	69	24	1

Note: Excludes 26 cases in which it was stated that death followed the maternal condition after an interval of more than 12 months.

Table LXIV. Deaths of women not classed to pregnancy or childbearing, but certified as associated therewith, 1960, England and Wales

ICD No.	Cause of death		Allages	15–	20-	25-	30-	35-	40-	45 and over
053 · 4	Septicaemia		1		1	0920	allan .		Blue	(1)
087.0			1		1015	3/10	1	WIN.	SPERM	
140-199	Malignant neoplasms	SUREL MERCE	10	12_0	1	3	2	4		10
201	Hodgkin's disease		1	-	1	010	TO THE	* <u></u>	_	
204 · 3	Acute myeloid leukaemia		1	200		0 28	N.Car		1	
214	Uterine fibroids		2		N. Mary	PETER!	1000	2		No.
216	Ovarian cyst (twisted)			130	_	1	_			
226	Lipoma third cerebral ventricle		1	-	150000	1	3100	DE L	4	
241	Status asthmaticus		1	1 200	Marie V	1 10	1000	1	-	P. P.
260	Diabetes	OF SURBER OF	1	loma.	1	M-A	<u> </u>			P.C.
322.2	Alcoholism		1			1		_		
330–334	Vascular lesions affecting centr	ral nervous	1		STATE OF	000	1	1		PAGE 1
	system					NEO ER				
353 · 1	Status epilepticus Diseases of mitral valve		2	_		_	2		Train a	3100
410	Diseases of mitral valve		13	_	A SECOND	5	3	3	2	02
416	Other heart disease specified as	rheumatic	2	_		1	1		_	
420 · 1	Coronary thrombosis		1			_	_	1		
421 · 1	Aortic incompetence		1	-	1000	1				000
422.0	Fatty myocardial degeneration		1 1	_	_	1		_	-	
422.2	Myocardial degeneration		1	_	-		1	_	4.07%	10
430.0	Subacute bacterial endocarditis		1	-	_	_	1	-	-	1
434.4	Organic heart disease		1	1	-	-		_	_	10
444	Hypertension		1	100	_	_	1	-	-	-
451	Medial necrosis of aorta		1	-	1	_	-	-	-	_
452 490–493	Other aneurysm, except of hear		2			1	1	-	-	_
526	Pneumonia		5	-	-	2	1	1	1	4 -
540 · 1	Bronchiectasis Perforated gastric ulcer		1	_		-	1	-	-	-
541 · 1	Perforated duadanal vlear	olikoomisi	1 1	5000	200	1		-		100
550.1	Perforated duodenal ulcer Appendicitis with peritonitis		1	SOL V	1			1	-	-
561.0	Strangulated inguinal hernia		1	San Park	1	_	1000	-	-	a
570	Intestinal obstruction without r	nontion of	1	STREET,	To l	76	No.	1		-
310	hernia	nention of	3	1		AVAL A	1			
571 · 1	Enterocolitis	moisming	1	1	and the	1	1	_	1	
578	Ulceration of caecum		1	BY TEST		1	1		7	1
585	Cholecystitis	Conclusion C	1 1	Market		exe	1			
722.0	Rheumatoid arthritis		1			1	1			
744	Other diseases of muscle, tendon	and fascia	2	1000 000	5 300 10	1	Hillers		1	PH.
754	Congenital malformations of	circulatory	-	asimi	Viane.	1	(6)(1) (1)	257	1	10.
	system		4		1	1	1	1		
757 · 1	Polycystic kidney disease	Managed Ma	1	-	-	-	_	1		
E800-			2120124	BW	nslate	30	Lizo e		1	
E999	Accidents, poisonings, violence		2	-	- N	1	1		-	0
	Total	in Karatoa	75	2	7	23	21	16	6	0
Associated	with abortion (included above)	37/02 (30) 1344	5	1 10000	1	2	1	1		0

Table LXV. Tuberculosis of the respiratory system: Death rates per million living, by sex and age, 1931 to 1960, England and Wales

	0-	5-	10-	15-	20-	25-	35-	45-	55-	65-	75 and over
	252	**************************************			Males	,			BOT I		
1931–35	85	42	64	490	963	961	1,140	1,368	1,176	723	275
1936–40	61	20	44	366	742	785	937	1,210	1,216	718	296
1941–45	76	24	34	339	581	674	811	1,114	1,203	741	295
1946	68	22	23	239	481	615	687	1,020	1,165	768	340
1947	77	15	29	241	500	632	679	1,034	1,213	812	267
1948	56	10	14	211	445	603	633	961	1,166	881	334
1949	33	6	13	127	368	496	591	869	1,153	927	380
1949*	34	7	14	127	366	497	592	869	1,159	937	400
1950*	38	9	8	78	229	395	428	751	1,024	891	411
1951*	30	7	7	46	171	292	364	636	978	953	464
1952*	15	4	10	35	102	201	287	503	829	843	447
1953*	14	4	3	18	71	156	214	413	712	814	445
1954*	9	2	1	13	55	130	192	370	643	778	406
1955*	3	1	1	8	30	93	151	307	535	705	420
1956*	7	1	2	7	14	71	113	231	456	640	463
1957* 1958* 1959* 1960*	3 3 4 1		2 2 —	3 6 2 3	12 13 6 1	40 38 31 20	105 85 73 55	193 166 141 121	410 401 325 297	605 572 528 492	436 416 486 436
Allei I	# 1	1	01		Fe	emales					
1931–35	74	43	143	840	1,138	911	646	475	394	306	170
1936–40	55	24	98	658	1,016	759	511	377	339	272	160
1941–45	72	24	76	591	916	692	427	304	269	220	123
1946	60	25	69	468	842	662	382	261	242	207	119
1947	70	24	63	502	899	730	411	267	249	224	133
1948	52	19	53	462	812	702	367	255	235	218	103
1949	33	9	30	349	684	622	348	253	245	229	127
1949*	33	10	30	351	682	622	348	254	249	236	139
1950*	29	8	15	199	429	444	273	229	212	212	144
1951*	25	8	14	108	278	347	238	192	180	198	13.
1952*	18	5	6	58	169	230	166	131	148	150	159
1953*	17	5	3	32	122	174	146	116	130	162	14
1954*	11	2	3	31	84	143	145	104	107	137	11
1955*	6	2	4	12	56	113	101	84	95	111	11
1956*	4	1	—	6	35	80	79	62	70	111	12
1957* 1958* 1959* 1960*	4 3 4 3	1 1 1 1	- I I	6 6 2 3	12 14 7 3	70 48 33 26	75 58 44 40	53 51 46 42	55 69 53 44	80 99 86 77	9 10 9 9

^{*} According to the Seventh (1955) Revision of the International List. Throughout the rest of the table rates are according to the Fifth (1938) Revision.

Table LXVI. Tuberculosis of the respiratory system: Notification rates* per 100,000 living, by sex and age, 1938 to 1960, England and Wales

		All ages	0-	5-	15-	25-	35-	45-	65 and over
30YO				1	Males				
1938 1939 1940		108 98 104	20 17 17	42 32 29	141 132 145	137 124 146	136 124 128	136 125 123	52 46 43
1941 1942 1943 1944 1945		115 117 119 122 118	20 22 27 30 32	33 38 40 41 40	154 165 166 180 178	155 148 144 158 160	148 153 154 142 135	141 142 152 149 142	50 49 50 56 53
1946 1947 1948 1949 1950		119 118 117 119 111	32 40 44 46 53	46 53 51 49 49	179 193 215 180 159	174 163 161 159 154	125 116 117 122 107	138 137 139 146 135	54 56 64 68 67
1951		115 112 110 100 92	53 52 49 41 36	48 51 49 40 34	170 165 155 143 125	156 147 133 125 110	117 116 114 106 96	141 135 139 126 121	72 77 85 82 81
1956		88 82 76 70 60	29 26 25 21 24	28 23 21 17 15	115 99 89 70 59	101 97 86 79 65	92 90 81 79 68	121 114 108 102 88	87 87 87 89 77
				F	emales				
1938 1939 1940		77 71 70	18 15 17	42 33 30	175 166 168	129 116 120	72 68 66	42 37 35	19 18 16
1941		76 78 83 86 81	19 20 26 26 26	33 34 40 40 41	185 204 209 227 223	126 130 142 150 140	69 70 73 75 69	41 37 40 38 34	19 18 18 16 16
1946 1947 1948 1949 1950		80 83 86 85 82	28 33 46 44 43	49 51 58 53 52	213 235 244 238 238	141 146 151 155 152	65 66 68 71 69	35 35 35 35 31	16 17 17 17 17 16
1951 1952 1953 1954 1955	130	81 80 77 68 60	50 49 45 37 35	52 53 52 44 38	229 216 201 187 156	149 148 141 124 112	68 71 73 63 59	33 35 34 30 30	16 16 18 17 17
1956 1957 1958 1959	08	55 49 43 39 33	30 30 25 22 20	31 27 24 19 18	139 116 97 83 63	101 90 79 69 60	57 55 47 49 39	29 29 26 25 23	18 17 17 16 15

^{*} Notifications of tuberculosis used in this and subsequent tables for 1956 onwards are those returned to the General Register Office, and not, as in previous years, those returned to the Ministry of Health. There is a small but insignificant difference between the figures from the two sources. Cases of unstated age are omitted for 1956 onwards.

Table LXVII. Tuberculosis of the respiratory system: Ratio of deaths to 100 notifications*, by sex and age, 1938 to 1960, England and Wales

285	R2 8	0 28	ESE .	Ma	iles	75	2,2	3	.07	Fer	nales		2. 7
1821	815	All	0-	15-	25-	45-	65 and over	All	0-	15-	25-	45-	65 and over
1938 1939 1940	9:9	60 67 65	13 14 15	38 38 35	60 64 61	- 85 - 96 100	112 133 139	55 59 64	16 19 23	45 46 53	60 65 68	80 93 96	115 124 139
1941 1942 1943 1944 1945	T:	59 52 53 48 48	20 13 13 11 11	33 27 25 22 22	55 48 48 44 44	87 78 81 76 76	121 121 121 110 118	59 50 46 42 44	26 18 16 15 16	48 39 35 30 31	65 55 51 47 51	81 79 73 70 76	110 106 102 111 117
1946 1947 1948 1949 1950		47 47 46 42 38	10 9 6 4 4	18 17 16 13 9	42 45 43 38 31	78 81 75 68 64	119 116 112 112 111	43 44 39 35 28	12 12 8 5 4	31 30 27 22 13	51 54 49 43 33	72 74 71 71 71 70	110 114 107 114 116
1951 1952 1953 1954 1955		33 27 23 23 21	3 2 2 1 0	6 4 3 2 2	24 19 15 14 12	55 47 38 38 38 33	112 93 82 80 76	22 16 14 14 12	3 2 2 1 1	9 5 4 3 2	27 18 15 15 13	56 40 36 35 29	110 96 85 77 66
1956 1957 1958 1959 1960	***	19 18 18 17 18	1 1 1 1 0	1 1 1 1 0	10 8 7 7 6	27 25 25 22 22 22	67 63 60 58 61	10 10 11 9 10	0 1 1 1 1	2 1 1 1 0	10 10 9 7 7	23 19 23 19 19	66 51 60 55 54

^{*} See footnote to Table LXVI.

Table LXVIII. Tuberculosis of the respiratory system: Death rates per million living, by sex and age, and notifications* per 100 deaths in standard regions, conurbations, and urban and rural aggregates within regional groups, 1960, England and Wales

					Males							Females				Pe	ersons
	The latest Sauss as	All ages	0-	5-	15-	25-	45-	65 and over	All ages	0-	5-	15-	25-	45-	65 and over	All	Notifi- cations per 100 deaths
	The beautiful and the							10100	\$7.04	in for long	SV NS		P3 10 34				
	ENGLAND AND WALES	106	1	_	2	38	197	474	32	3	1	3	33	43	83	68	680
	Urban and rural aggregates: Conurbations	114	2	_	3	39	208	545	31	8	2-3	3	35	36	81	70	774
	Areas outside conurbations: Urban areas with populations of 100,000 and over	141	4	_	3	56	279	588	39				46	55	0.5	00	
4	Urban areas with populations of 50,000 and under 100,000	110	_		_	37	208	497	32					55	95	88	608
130	and under 100,000	103										4	39	27	98	69	650
	Rural districts	73	=	=	1	31 32	189 129	448 325	33 29	3	3	3 4	30 22	50 49	79 77	67 51	623 621
1	ORTH OF ENGLAND	124	2	_	1	48	229	559	36	2	2	4	47	47	83	79	569
	Regions: Northern	107			1_0	50	215	110	40								
	East and West Ridings	124 133	4		4	52 42 51	243 227	448 521 640	42 32 36	-4	3 2	11 -	67 38 42	51 49 44	94 59 93	74 77 82	723 574 498
	Conurbations	132	4	-6	3	45	240	635	36	4	-	7	47	45	83	81	581
	West Yorkshire	94	_		11	27 14	192 168	444 526	43 31		=	16 19	61	53 36	94 54	68 64	1,172 751
	South East Lancashire	142 174	10		=	56 75	268 321	608 981	31 47	16	_	_	33 65	40 62	86	84 107	501 335
	Areas outside conurbations: Urban areas with populations of 100,000							Eth Man	25.00								
	and over	163	-	-8	-	80	280	754	40	_	_	_	70	55	60	99	512
	and under 100,000	146	-	-0	-	42	308	566	37	_	-70 -17	_	49	26	129	89	470
	50,000	104	_			40	179	474	39	_	9	5	45	48	99	71	651
	Rural districts	84	-	_	1-8	49	174	299	28	-	1	15-	25	60	50	56	535

	WALES AND MIDLANDS	115	-	-	-	40	237	490	34	-	-	3	31	53	89	74	650
	Regions: Wales North Midland Midland	179 79 107	=	ĪĒ		71 35 29	326 153 248	746 329 456	45 27 32	Ξ	=	$\frac{6}{3}$	26 30 34	94 39 41	96 70 101	111 53 69	501 738 731
	Conurbation: West Midlands	114	_28	_	_(e	27	275	483	26	-	_	事一	43	20	77	69	930
	Areas outside conurbation: Urban areas with populations of 100,000 and over	153	-	_ 31 _ 31	- 20	54	309	689	48	-	_		44	75 23	139	99	532 693
	and under 100,000 Urban areas with populations under 50,000 Rural districts	110 133 74	30	_ _ _	- -	65 47 29	229 267 122	358 528 366	23 34 31	=	70 = 100 = 1	5	22 20	69 54	75 90	82 52	555 655
	SOUTH AND EAST OF ENGLAND (excluding Greater London)	82	2	-	2	24	147	370	30	2	_	3	27	38	79	55	713
137	Regions: London and South Eastern (excluding Greater London) Southern South Western Eastern	111 80 79 65	_ _ 	= 10 = 10	- 4 4 -	18 32 27 19	185 150 153 110	491 370 308 324	31 30 30 27	<u>-</u> - 7		_ 5 4	19 32 28 27	44 31 50 26	82 91 60 87	68 55 54 46	513 780 809 782
	Urban areas with populations of 100,000 and over	112	12	-1	7	37	247	379	30	_			29 35	37 29	85 97	69 58	820 804
	and under 100,000	87 80 68		=	— — 3	23 13 27	128 137 115	382 310	32 29 29	6 —	=	7	27 22	39 41	70 79	53 49	674 639
	GREATER LONDON	100	34	1	4	38	167	491	28	14	80 -	16	25	32	80	62	922

* See footnote to Table LXVI.

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Table LXIX. Tuberculosis of the respiratory system: Notification rates* per 100,000 living, by sex and age, in standard regions, 1960, England and Wales

				Males							Females				Persons
	All	0-	5-	15-	25-	45-	65 and over	All	0-	5-	15-	25-	45-	65 and over	All
ENGLAND AND WALES	60	24	15	59	66	88	77	33	20	18	63	49	23	15	46
Standard regions:	18			3				a l			03	-	23	13	40
Northern	65	34	21	62	64	100	86	43	25	28	77	65	29	14	53
East and West Ridings	60	19	12	48	71	85	84	30	15	16	58	45	22	10	44
North Western	53	. 17	10	53	54	86	66	30	19	13	69	43	19	15	41
North Midland	50	22	10	59	57	71	54	28	12	16	55	44	18	13	39
Midland	66	28	20	66	75	96	74	35	27	23	69	50	22	12	51
Eastern	46	16	17	48	52	64	53	26	12	20	48	39	18	11	36
London and South Eastern	70	25	12	75	76	97	97	35	27	17	64	52	25	19	51
Southern	53	30	11	43	63	84	57	33	20	17	58	48	25	20	41
South Western	59	20	30	50	68	80	69	29	13	21	47	49	21	12	43
Wales	70	29	21	60	69	107	104	41	23	21	78	58	30	23	55
Wales I (South East)	67	28	18	64	66	102	93	41	21	24	75	61	27	23	54
Wales II (remainder)	79	32	29	51	75	121	127	41	30	15	85	49	37	23	59

^{*} See footnote to Table LXVI.

Table LXX. Tuberculosis of the respiratory system: Ratio of deaths to 100 notifications*, by sex and age, in standard regions, 1960, England and Wales

				T P		Deaths	per 100) notific	ations		
					Ma	iles			Fem	ales	
		001	900	15-	25-	45-	65 and over	15-	25-	45-	65 and over
ENGLAN		WALES	-0.0	0	6	22	61	0	7	19	54
North Midlan Eastern Londor Souther South Midlan	rn d West R Western Midland d an and Sou rn Western	idings ith Eastern			8 6 10 6 4 4 4 5 4	22 28 27 22 26 17 18 18	52 62 97 61 62 61 50 65 45	1 2 - 0 1 - 1	10 8 10 7 7 7 4 7 6	18 22 24 21 18 14 14 12 24	66 59 64 55 86 80 41 45 52
shire Wale			uth-	-	10 11 9	31 29 33	72 76 65	$\frac{1}{2}$	5 3 11	31 35 24	41 41 43

^{*} See footnote to Table LXVI.

Table LXXI. Tuberculosis of the respiratory system: Standardised Mortality Ratios and standardised notification ratios*, by sex, in standard regions, conurbations, and urban and rural aggregates, 1960, England and Wales

		Ma	iles	Fem	ales
		S.M.R.	S.N.R.	S.M.R.	S.N.R.
ENGLAND AND WALES		100	100	100	100
Regions and conurbations:					
Tyneside Conurbation		105 93 110	109 165 90	139 142 138	128 186 107
West Yorkshire Conurbation		116 92 133	99 108 92	102 94 108	90 100 83
South East Lancashire Conurbation		125 135 183 93	88 95 51 100	112 97 156 106	92 87 124 79
North Midland		75	83	86	85
West Midlands Conurbation		108 117 100	111 146 78	105 86 125	106 126 86
Eastern		61	77	85	80
Greater London	:	94 94 95	114 127 77	85 84 89	107 117 78
Southern		78	89	91	101
South Western		71	98	91	90
WILLIAM IN A		163 154 187	116 111 130	142 133 165	125 124 127
Urban and rural aggregates: Conurbations		109	119	95	116
Areas outside conurbations: Urban areas with populations of 100,000 and ove Urban areas with populations of 50,000 and	er d	135	120	123	111
under 100,000		104 94 69	95 94 65	98 102 92	105 86 78

^{*} See footnote to Table LXVI.

Table LXXII. Non-respiratory tuberculosis: Death rates per million living, by sex and age, 1938 to 1960, England and Wales

					Males				Fer	males		
		-00	All	0-	15-	25-	45 and over	All	0-	15-	25–	45 and over
1938-4 1941-4			117 131	221 236	136 195	79 98	67 62	93 96	201 213	121 141	59 59	46 45
1946 1947 1948 1949 1950			93 87 72 62 47	180 179 134 107 75	120 96 79 69 44	60 53 45 41 34	54 52 52 46 40	75 73 62 47 40	165 153 130 92 76	107 109 84 60 54	50 48 41 34 22	35 35 34 29 29
1951 1952 1953 1954 1955	30. 30. 30.		44 33 24 21 17	70 43 29 16 11	38 27 17 15 12	33 23 18 18 14	37 36 30 30 26	37 24 21 17 13	69 38 30 13 14	44 25 18 15 5·3	21 16 12 12 8·5	30 23 23 22 18
1956 1957 1958 1959 1960			13 12 12 8·7 7·2	7·3 7·2 5·4 6·0 2·4	4·4 6·5 7·1 2·1 2·4	11 11 9·4 6·3 5·7	20 19 20 15 14	11 12 9·5 8·1 7·2	5·6 8·6 5·8 4·5 2·5	7·6 6·5 3·2 2·8 2·7	9·2 8·0 6·1 5·4 5·1	16 17 16 13 12

Table LXXIII. Non-respiratory tuberculosis: Notification rates* per million living, by sex and age, 1938 to 1960, England and Wales

		land to	Marin I		Males		184 19	2.1 da	or 1	Females		Dipot of
			All	0-	15-	25-	45 and over	All	0-	15-	25-	45 and over
1938-4 1941-4		ONLY AR	290 269	744 698	341 326	151 148	72 64	264 261	641 632	403 413	172 178	61 63
1946 1947 1948 1949 1950			217 202 197 171 151	569 518 505 423 350	250 227 243 211 186	123 114 99 93 93	53 54 53 50 48	210 196 199 174 164	518 455 473 399 343	334 317 333 304 288	149 144 138 127 139	47 51 46 40 39
1951 1952 1953 1954 1955		::	149 135 122 109 96	327 275 233 192 145	196 196 163 149 154	98 91 85 93 85	48 50 59 48 48	159 146 133 133 109	314 272 224 199 144	300 242 240 245 203	131 135 129 140 126	46 54 51 56 48
1956 1957 1958 1959 1960	::		87 76 70 58 56	121 91 75 53 47	131 119 106 86 67	83 74 82 71 82	49 49 44 40 36	98 93 83 67 69	113 103 77 55 48	188 162 142 114 113	118 121 111 88 103	49 46 50 46 43

^{*} See footnote to Table LXVI.

Table LXXIV. Mass miniature radiography: Number of examinations made by mass (The total numbers of examinations have been

Category of	E CHINA					Ma	ales					
person examined	Under 14	14	15-	20-	25-	35-	45-	55-	60-	65 and over	Not stated	All
Out-patients and in-patients of hospitals	70	10	380	540	1,190	1,280	1,740	790	700	890	_	7,590
H.M. Forces intakes	-1	10	740	27,710	400	100	60	72	_	-	50	29,070
School children (Mantoux test)	2,330	2,320	1,690	40	98-	120	884	£0_20	_	-	-315	6,380
School children (School groups)	1,200	2,360	17,260	180	14_ 14_	95 46 18	楓	00 72 252 47	_	-	264 274 034	21,000
Contacts (Mantoux test)	460	220	420	260	150	590	330	90	50	50	78	2,620
Other contacts	1,490	870	3,270	1,990	2,980	2,630	2,080	740	380	650	-650	17,080
Persons covered by special surveys	270	490	3,810	3,400	8,600	7,940	5,560	2,220	1,610	2,210	20	36,130
Persons in prisons, borstals, etc	50	10	3,760	4,010	4,270	2,780	1,800	790	690	1,560	10	19,730
Persons in factories/offices (General surveys)	_ &	450	106,050	125,030	271,480	276,150	252,680	95,460	53,830	14,360	250	1,195,740
General public volunteers	650	710	31,840	34,780	83,270	82,090	77,480	29,610	20,590	28,350	50	389,420
Ante-natal cases	F bu		Engl.		8501	age.	log xs	e ydai	Hving		100	
Psychiatric hospitals	70	20	1,810	1,660	3,580	5,310	6,340	2,830	2,390	4,110	30	28,150
Total	6,590	7,470	171,030	199,600	375,920	378,870	348,070	132,530	80,240	52,180	410	1,752,910
Persons referred by general practitioners	2,100	670	8,400	9,740	18,940	18,070	20,000	9,640	8,200	9,010	20	104,790
Total (all groups)	8,690	8,140	179,430	209,340	394,860	396,940	368,070	142,170	88,440	61,190	430	1,857,700

radiography units, by sex, age, and category of person examined, 1960, England and Wales derived from a 10 per cent sample of record cards)

					Fema	les						Persons	Category of
Under 14	14	15-	20-	25-	35-	45-	55-	60-	65 and over	Not stated	All ages	All ages	person examined
20	20	460	970	1,610	1,830	2,110	970	870	1,230	10	10,100	17,690	Out-patients and in- patients of hospitals
-	-		20	-	-	-	-	-	-	-	20	29,090	H.M. Forces intakes
2,200	2,340	1,290	80	-	-	_	-	_	-	10	5,920	12,300	School children (Mantoux test)
760	1,610	13,780	160	_		_	_	_	_	_	16,310	37,310	School children (School groups)
330	190	310	210	210	880	580	10	30	60	10	2,820	5,440	Contacts (Mantoux test)
1,050	650	3,170	1,940	2,210	2,410	2,170	630	430	520	60	15,240	32,320	Other contacts
300	320	4,020	3,770	8,620	8,470	7,870	2,900	2,320	2,740	h	41,330	77,460	Persons covered by special surveys
60	10	210	100	120	240	280	190	130	880	10	2,230	21,960	Persons in prisons, borstals, etc.
	280	143,020	119,440	102,440	100,290	83,990	24,760	7,880	2,610	150	584,860	1,780,600	Persons in factories/ offices (General surveys)
450	680	46,020	46,740	96,100	101,300	82,960	31,370	23,580	26,570	70	455,840	845,260	General public volunteers
-	_	2,240	6,860	9,820	2,420	10	-20	-	-	20	21,370	21,370	Ante-natal cases
70	10	750	1,510	2,520	3,990	5,480	2,820	3,320	7,800	30	28,300	56,450	Psychiatric hospitals
5,240	6,110	215,270	181,800	223,650	221,830	185,450	63,650	38,560	42,410	370	1,184,340	2,937,250	Total
2,080	590	11,020	12,250	18,430	15,370	14,160	6,060	3,980	5,800	30	89,770	194,560	Persons referred by general practitioners
7,320	6,700	226,290	194,050	242,080	237,200	199,610	69,710	42,540	48,210	400	1,274,110	3,131,810	Total (all groups)

Table LXXV. Mass miniature radiography: (a) Numbers of cases of respiratory tuberculosis per 1,000 examinations, by sex, age, and category

Category of		sere/T					Ma	ales					
person examine	ed	Under 14	14	15-	20-	25-	35-	45-	55-	60-	65 and over	Not stated	All ages
Out-patients and in patients of hospitals	(a) (b)	<u>-</u> 0.0	0.0	5.3	1 1.9	4 3·4	0.8	3 1.7	2 2.5	2.9	2.2	=	17 2·2
H.M. Forces intakes	{(a) (b)	\$6 _ 9 	0.0	0.0	34 1·2	0.0	0.0	<u>-0.0</u>	=		=	0.0	34 1·2
School children (Mantoux test)	{(a) (b)	3 1·3	2.6	4.1	0.0	=	$\dot{\Xi}$	=	=	<u> 108</u>			16 2·5
School children (School groups)	{(a) (b)	2.5	3 1·3	0.2	0.0	=	=	=	=	001	087.	=	9 0 ·4
Contacts (Mantoux test)	{(a) (b)	0.0	0.0	0.0	0.0	13.3	3.4	18.2	11.1	<u></u>	0.0	-	11 4·2
Other contacts	{(a) (b)	1.3	0.0	0.6	3.5	10 3·4	15 5·7	13 6·2	8.1	0.0	9.2	=	61 3·6
Persons covered by special surveys	{(a) (b)	3.7	0.0	0.8	2.1	10 1·2	17 2·1	25 4·5	2.3	2.5	10 4·5	0.0	82 2·3
Persons in prisons, borstals, etc.	{(a) (b)	0.0	0.0	0.8	1.0	17 4·0	16 5·8	23 12·8	13 16·5	7.2	5.8	0.0	90 4·6
Persons in factories/ offices (General surveys)	}(a) (b)	=	<u>-</u> 0.0	72 0·7	126 1·0	240 0·9	259 0·9	280 1·1	129 1·4	74 1·4	24 1·7	<u>-</u> 0.0	1,204 1·0
General public volunteers	{(a) (b)	0.0	0.0	33 1·0	50 1·4	95 1·1	116 1·4	123 1·6	56 1·9	44 2·1	82 2·9	0.0	599 1·5
Ante-natal cases	{(a) (b)	==	=	=	# T 05	_	=	=	=	10% ===	=	= = =	=
Psychiatric hospitals	{(a) (b)	0.0	0.0	1.1	2.4	13 3·6	14 2·6	21 3·3	10 3·5	7 2·9	13 3·2	0.0	84 3·0
Total	{(a) (b)	9 1.4	9 1.2	127 0·7	233 1·2	391 1·0	440 1·2	494 1·4	222 1·7	136 1·7	146 2·8	0.0	2,207 1·3
Persons referred by general practitioners	}(a) (b)	3.3	1 1.5	47 5·6	82 8·4	193 10·2	188 10·4	219 11·0	122 12·7	99 12·1	100 11·1	100.0	1,060 10·1
Total (all groups)	{(a) (b)	16 1·8	10 1·2	174 1·0	315 1·5	584 1·5	628 1·6	713 1·9	344 2·4	235 2·7	246 4·0	4.7	3,267 1·8

requiring treatment or close clinic supervision observed by mass radiography units, (b) rates of person examined, 1960, England and Wales

					Fem	ales						Persons	Category of
Under 14	14	15-	20-	25-	35-	45-	55-	60–	65 and over	Not stated	All ages	All	person examined
0.0	<u>-</u> 0.0	1 2.2	1 1.0	1.2	2 1.1	0.5	1 1.0	1 1·1	0.8	<u>-0.0</u>	10 1·0	27 1·5	(a) Out-patients and in- (b) patients of hospitals
-	=	=	0.0	=	=	=	_	=	=	=	0.0	34 1·2	(a) H.M. Forces intakes
12 5·5	5 2.1	3·1	<u>-</u> 0.0		Ξ	=		=	=	0.0	21 3·5	37 3·0	(a) School children (b) (Mantoux test)
4 5·3	3 1.9	0.1	<u></u>	=	=	=	=		=	=	9 0·6	18 0·5	(a) \ School children (b) ∫ (School groups)
2 6·1	<u>-0.0</u>	3.2	0.0	4.8	2.3	0.0	0.0	0.0	0.0	0.0	2.1	17 3·1	(a) Contacts (Mantoux (b) test)
5.7	1.5	1.9	9 4·6	11 5·0	3.3	1.8	0.0	7.0	3.8	0.0	50 3·3	111 3·4	(a) Other contacts
3.3	<u>-</u> 0.0	1.0	1.6	12 1·4	12 1·4	13 1·7	1.4	0.4	0.4	=	54 1·3	136 1·8	(a) Persons covered by (b) special surveys
0.0	0.0	0.0	10.0	8.3	4.2	0.0	0.0	7.7	0.0	0.0	1.8	94 4·3	(a) Persons in prisons, (b) borstals, etc.
=	0.0	107 0·7	141 1·2	111 1·1	76 0·8	50 0·6	10 0·4	0.1	2.3	0.0	502 0·9	1,706 1·0	(a) Persons in factories/offices (General surveys)
2 4.4	0.0	38 0·8	59 1·3	125 1·3	109 1·1	51 0·6	27 0·9	14 0·6	24 0·9	0.0	449 1·0	1,048 1·2	(a) General public (b) volunteers
=	=	0.0	12 1·7	25 2·5	2.5	0.0	=	=	=	0.0	43 2·0	43 2·0	(a) Ante-natal cases
0.0	0.0	1.3	0.7	1.6	2.0	6 1.1	0.7	0.0	0.0	0.0	22 0·8	106 1·9	(a) Psychiatric hospitals
27 5·2	9 1.5	164 0·8	230 1·3	292 1·3	224 1·0	125 0·7	44 0.7	21 0·5	34 0·8	0.0	1,170 1·0	3,377 1·1	(a) Total
5 2.4	3.4	51 4·6	79 6·4	136 7·4	83 5·4	74 5·2	31 5·1	23 5·8	17 2.9	0.0	501 5·6	1,561 8·0	(a) Persons referred by general practitioners
32 4·4	11 1·6	215 1·0	309 1·6	428 1·8	307 1·3	199 1·0	75 1·1	1·0	51 1·1	0.0	1,671 1·3	4,938	(a) Total (all groups)

Table LXXVI. Mass miniature radiography: (a) Numbers, (b) rates per 1,000 examinations of non-tuberculous conditions diagnosed following examination, by sex and age, 1960, England and Wales

							M	ales											Fer	males						Per- sons
	Category of person	Under 14	14	15-	20-	25-	35-	45-	55-		65 and over	Not stated	All ages	Under 14	14-	15-	20-	25-	35-	45-	55-		65 and over	Not stated	All ages	All
									N	Ialigi	nant n	eoplasm	ns													
	All groups, excluding persons (a referred by general practitioners (b	3 =	=	0.0	0.0	0.0	54 0·1	216 0·6	222	219 2·7	212		937 0·5	=	=	0.0	0.0	0.0	15 0·1	0.1	22 0·3	31	47 1·1	=	144	1,081
	Persons referred by general prac-{(a titioners (b	3 =	=	0.1	0.1	11 0·6	60 3·3	280 14·0	249 25·8	235 28·7	425 47·2	=	1,262 12·0	=	=	_	0.2	0.1	17 1·1	45 3·2	34 5·6	37 9·3	54 9·3	=	191 2·1	1,453 7·5
	Total (all groups) $\left\{ \begin{pmatrix} a \\ b \end{pmatrix} \right\}$	3 =	=	0.0	0.0	0·1	114 0·3	496 1·3	471 3·3	454 5·1	637 10·4	=	2,199 1·2	=	=	0.0	0.0	0.0	32 0·1	69 0·3	56 0·8	68 1·6	101 2·1	=	335 0·3	2,534 0·8
									No	ı-mal	ignan	t neopla	sms													
146	All groups, exluding persons {(a referred by general practitioners {(b	3 =	=	0.0	0.0	0.1	40 0·1	59 0·2	39 0·3	39 0·5	44 0·8	=	253 0·1	=	=	0.0	0.0	14 0·1	28 0·1	72 0·4	41 0·6	35 0·9	61	=	263 0·2	516 0·2
	Persons referred by general prac-{(a titioners (b	3 =	=	=	=	0.3	0.4	7 0·4	10 1·0	0.6	14 1·6	=	49 0·5	=	=	0.1	=	0.1	0.1	0.3	0.5	0.3	8	=	20 0·2	69 0·4
	Total (all groups) $\left\{ \begin{pmatrix} a \\ b \end{pmatrix} \right\}$	3 =	=	0.0	0.0	28 0·1	47 0·1	66 0·2	49 0·3	44 0·5	58 0·9	=	302 0·2	=	=	$\begin{smallmatrix}10\\0\cdot0\end{smallmatrix}$	0.0	16 0·1	29 0·1	76 0·4	44 0·6	36 0·8	69 1·4	=	283 0·2	585 0·2
								Lym	phade	nopat	thies,	excludi	ng sarcoi	ids												
	All groups, excluding persons (a referred by general practitioners (b	$0 \cdot 2$	=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	=	0.0	=	0.2	0.0	0.0	10 0·0	0.0	0.0	0.0	=	0.0	=	0.0	49 0·0
	Persons referred by general prac- { (a titioners (b	1.0	=	0.2	0.3	=	0.1	=	0.1	=	_	=	9	0.5	=	0.3	0.2	0.2	0.1	_	=	_	0.2	=	14 0·2	23 0·1
	Total (all groups) $\left\{ \begin{pmatrix} a \\ b \end{pmatrix} \right\}$	0.3	=	0.0	0.0	0.0	0.0	$0 \cdot 0$	0.0	$0 \cdot 0$	0.0	=	33	0.1	0.1	0.0	0.0	14 0·1	0.0	0.0	$0 \cdot 0$	=	0.0	E	39 0·0	72 0·0
								Sarco	oids, i	nclud	ing en	larged l	nilar gla	nds												
	All groups, excluding persons { (a referred by general practitioners \ (b	$0 \cdot \frac{1}{2}$	=	0.1	52 0·3	95 0·3			0.1			=	255 0·1	=	=	0.0	34 0·2	77 0·3	40 0·2	27 0·1	0·2	0.1	0.1	=	208 0·2	463 0·2
	Persons referred by general prac-{(a titioners (b	3 =	=	0.1	12 1·2	0.7	9 0·5	0.4	0.7	0.7	0.1	=	59 0·6	=	=	0.5	10 0·8	31 1·7	21 1·4	14 1·0	0.5	1.3	0.5		93 1·0	152 0·8
	Total (all groups) $\left\{ \begin{pmatrix} a \\ b \end{pmatrix} \right\}$	$0 \cdot 1$	=	14 0·1	64 0·3	109 0·3	51 0·1	46 0·1	16 0·1	0.1	0.1	=	314 0·2	= 1	=	15 0·1	44 0·2	108 0·4	61 0·3	41 0·2	16 0·2	0.2	0.2	=	301 0·2	615 0·2

				Co	ngenit	al card	iac abi	norma	lities an	nd al	onormali	ities of th	e vasci	ular s	ystem									10511	407
	All groups, excluding persons \(\)(a) referred by general practitioners \(\)(b)	0.2	=				6 34		7	1	=	212 0·1	0.4	1.0	64 0·3	0.1	0.2	27 0·1	0.1	0.0	0.1	0.1	2.7	0.2	407 0·1
	Persons referred by general prac- { (a) titioners (b)	3 1·4	1 1 5	0.7	0.4 0	3 0.	4 5 2 0·2	0.2	= c	3	=	31 0·3	0.5	_	0.6	0.2	0.3	0.5	0.3	0.5	0.3	0.3	=	0.4	65 0·3
	Total (all groups) $\left\{ \begin{pmatrix} a \\ b \end{pmatrix} \right\}$	0.5	0.1	43 0·2	36 0 2 0	51 4	$\begin{array}{c c}0&39\\1&0\cdot1\end{array}$		0.1	7	=	243 0·1	0.4	0.9	71 0·3	26 0·1	45 0·2	34 0·1	25 0·1	0.1	0.1	0.1	2.5	229	472 0·2
				A	cquire	d cardi	ac abn	ormal	ities and	d ab	normalit	ties of the	vascu	lar sy	stem							= (0)		2.15011	£ 707
	All groups, excluding persons { (a) referred by general practitioners { (b)	0.2	0.3	50 0·3	76 1 0·4 0	28 22	8 557	3.9	469 6 5·8 11	605	2.4	2,629	0.6	-	0.4	0.4	149 0·7	286	735	592 9·3	12.2	769 18·1	=	3,158	5,787
	Persons referred by general prac- (a) titioners (b)	2.4	=	7	15 1·5 2	38 6	6 190 7 9·5	170 17·6	178 21 · 7 38	347 8·5	150.0	1,019	0.5	1.7	14 1·3	17 1·4	65 3·5	71 4·6	179 12·6	117 19·3	151 37·9	359 61·9	=	975 10·9	1,994 10·2
	Total (all groups) $\cdots \qquad \cdots \begin{pmatrix} (a) \\ (b) \end{pmatrix}$	0.7	0.2	57 0·3		66 29	4 747 7 2·0		647 7·3	952 5·6	9.3	3,648	0.5	0.1	91 0·4	94 0·5	214 0·9		914 4·6	709 10·2	621 14·6	1,128 23·4	=	4,133	7,781 2·5
						Pne	umocor	niosis	without	pro	gressive	massive	fibrosis					-			10	1		58	1,530
	All groups, excluding persons (a) referred by general practitioners (b)	_	=	=	_ o	24 16	4 497		3.1	203	2.4	1,472	=	=	=	=	0.0	0.0	0.1	0.2	0.3	=	=	0.0	0.5
	Persons referred by general prac- \(\)(a) titioners \(\therefore \). \(\therefore \)(b)	_	=	=	_ o	10 6	3 179 5 9·0	104 10·8		57 6·3	=	498 4·8	=	_	=	=	0.1	0.1	16 1·1	9 1.5	7 1·8	0.9	=	40 0·4	538 2·8
147	Total (all groups) $\begin{cases} (a) \\ (b) \end{cases}$	=	=	=		34 22			331 2	260 4·2	2.3	1,970	_	=	_	=	0.0	10 0·0	43 0·2	20 0·3	17 0·4	0.1	=	98 0·1	2,068
	145 Charleman in Distance in	10-10				Pr	eumoc	oniosi	s with p	rogi	ressive n	nassive fil	brosis												
	All groups, excluding persons (a) referred by general practitioners (b)	=	=	=	= o	11	9 39	38	30	28	=	145 0·1	=	=	=	=	=	_	0.0	0.0	=	0.0	_	0.0	149 0·1
	Persons referred by general prac- (a) titioners (b)	_	=	=	= =	_ 0	2 14	11 1·1	0.7	16 1·8	=	49 0·5	3-9	1	=	=		=	0.1	0.3	_	0.2	1	0.0	53 0·3
	Total (all groups) $\cdots \qquad \cdots \begin{cases} (a) \\ (b) \end{cases}$	=	=	=	_ o	$\begin{bmatrix} 1 \\ 0 \end{bmatrix}$	1 53 0 0·1	49 0.3	36 0.4	44 0·7	=	194 0·1	Ξ	-	_	=	=	=	0.0	0.1	=	0.0	=	0.0	202 0·1

Table LXXVII. Deaths from cancer by sex and age according to histological type and death rates per million living, 1960, England and Wales

	All ages	0-	15-	35-	45-	55-	65 and over
			Num	ber of dea	aths	E TABLE	
All malignant neo- M plasms (140–205) F	52,779 46,009	459 363	859 740	1,639 2,189	6,382 6,203	14,800 9,892	28,640 26,622
Carcinoma $ {M \atop F}$	46,105 40,429	27 28	325 387	1,061 1,789	5,334 5,390	13,144 8,650	26,214 24,185
Glioma $ {M \atop F}$	920 648	76 53	66 51	123 78	261 159	284 205	110 102
Sarcoma $ {M \atop F}$	929 1,079	75 86	134 89	94 101	139 170	214 216	273 417
Reticuloses $ {M \atop F}$	3,020 2,462	268 184	315 192	305 151	444 299	654 533	1,034 1,103
Undefined $$ ${M \atop F}$	1,805 1,391	13 12	19 21	56 70	204 185	504 288	1,009 815
	13 18	Death	rates per	r million p	persons liv	ving	
All malignant neo- plasms (140–205)	2,159	78	136	611	1,942	4,640	10,125
Carcinoma	1,891	5	61	455	1,655	4,095	9,234
Glioma	34	12	10	32	65	92	39
Sarcoma	44	15	19	31	48	81	126
Reticuloses	120	43	43	73	115	223	392
Undefined	70	2	3	20	60	149	334

Table LXXVIII. Cancer (ICD Nos. 140-205): Sex and age specific death rates per million living from cancer at various sites and the percentage of mortality at each site to "all sites", 1960, England and Wales

Males

ICD No.	Site or organ	All ages	0-	5-	15-	25-	35-	45-	55-	65-	75-	85 and over	Per cent of all sites
140 141 142 143 144	Lip	32	1	_%	0	2	2	18	48	146	403	660	1.3
145 146 147 148	Oral mesopharynx	19	1	0	2	1	2	15	40	96	185	149	0.8
150	Oesophagus	59	-	-	0	2	6	36	113	299	653	777	2.5
151	Stomach	356	-	0	2	11	63	283	873	1,845	2,898	2,543	14.9
152 153	Small intestine, including duodenum } Large intestine, except rectum	169	_	-	2	12	35	114	330	804	1,790	2,207	7.1
154	Rectum	137	-	-	1	5	21	86	253	718	1,448	1,872	5.7
155	Biliary passages and liver (stated to be primary site)	26	2	1	0	2	6	20	73	120	193	149	1.1
157	Pancreas	94	1	0	_	1	18	70	229	485	770	957	3.9
161	Larynx	31	_	-	-	1	3	22	71	166	285	298	1 · 3
162 163	Bronchus and trachea, and of lung specified as primary Lung, unspecified as to whether primary or secondary	856	_	-	2	28	158	898	2,879	4,316	3,564	1,862	35.8
170	Breast	3	_	_	_	0	0	2	5	16	25	53	0.1
177	Prostate	166	_	1	0	_	1	15	160	912	2,589	4,011	6.9
178	Testis	10	_	_	8	25	13	9	13	12	12	11	0.4
179	Other and unspecified male genital organs	5	_	-	0	0	2	5	6	23	54	74	0.2
180	77:1	32	10	2	_	4	8	37	88	146	169	64	1.3
181	Bladder and other urinary organs	97	2	0	0	-	8	47	195	552	993	1,149	4.1

	ICD No.	Site or organ	All ages	0-	5-	15-	25-	35-	45-	55-	65-	75-	85 and over	Per cent of all sites
	190 191	Skin (malignant melanoma)	20	_	0	2	6	10	19	37	59	181	457	0.8
	193	Malignant neoplasm of brain and other parts of nervous system	50	19	20	9	18	45	95	137	86	29	11	2.1
	194	Thyroid gland	5	_	_	1	0	1	5	13	15	42	32	0.2
	195	Other endocrine glands	2	3	0	0	1	1	2	7	8	3	100	0.1
	196 197	Bone (including jaw bone)	20	1	5	12	9	8	16	37	71	128	149	0.8
150	158 164 198	Peritoneum Mediastinum Secondary and unspecified malignant neoplasm of lymph nodes	9	1	I	1	2	4	7	25	40	39	74	0.4
	200	Lymphosarcoma and reticulosarcoma	27	5	8	6	10	16	28	65	95	112	64	1.1
	201	Hodgkin's disease	23	2	3	17	23	29	31	41	44	44	11	1.0
	202	Other forms of lymphoma (reticulosis)	4	2	0	2	1	3	6	7	13	17	32	0.2
	203	Multiple myeloma (plasmocytoma)	15	_	8 -	_	1	7	20	47	66	62	43	0.6
	204	Leukaemia and aleukaemia	67	45	36	25	22	44	55	104	229	349	340	2.8
	205	Mycosis fungoides	1	1	- 1	_	_	0	0	3	6	5	_	0.0
	Others in 140–205	Remaining sites	58	2	2	4	4	15	48	140	276	438	500	2.4
	140-205	Total	2,391	96	80	99	194	531	2,008	6,038	11,663	17,478	18,543	100
	193	Malignant neoplasm of brain and other parts of nervous		L.		1			. 19213					
	223	Benign neoplasm of brain and other parts of nervous system	65	26	21	14	22	58	118	178	122	49	32	THE STATE OF THE S
	. 431	Neoplasm of unspecified nature of brain and other parts of nervous system	AT CR	के डीए ।	g sh	sites *	1960		व्य सम्ब	ANTHER				

Table LXXIX. Cancer (ICD Nos. 140-205): Sex and age specific death rates per million living from cancer at various sites and the percentage of mortality at each site to "all sites", 1960, England and Wales

Females

ICD No.	Site or organ	Ali ages	0-	5-	15-	25-	35-	45-	55-	65-	75-	over	of al sites
140 141 142 143	Lip	14			0	1	3	8	19	40	104	202	0.7
143	Other parts of mouth and mouth unspecified	150		1	100	190	350					192	
145 146 147	Oral mesopharynx Nasopharynx Hypopharynx Hypopharynx	14	-	-	-	1	7	19	31	46	48	69	0.3
148	Pharylix dispectified	43	_	_	0	1	7	28	60	144	306	453	2.
150	Oesopnagus	258	_		1	11	37	125	347	949	1,890	2,729	13.
151 152	Small intestine, including duodenum	236	_	0	1	12	42	148	344	783	1,642	2,700	12.
153	Large intestine, except rectain	103		_13	0	3	17	68	147	375	696	1,030	5.
154	Rectum	37	3		0	3	5	19	63	152	224	261	1
155	Biliary passages and liver (stated to be primary site)	79			_	1	12	42	115	308	540	739	4
157 161	Pancreas	7	_	-		_	3	7	14	22	33	30	0
162 163	Bronchus and trachea, and of lung specified as primary Lung, unspecified as to whether primary or secondary	132	-	0	1	8	52	146	300	456	517	399	6
		382	_		2	33	194	569	774	1,051	1,498	2,217	19
170	Breast	110	_	_	0	21	109	183	192	279	354	379	5
171	Cervix uteri	53	_	_	_	2	7	39	133	187	237	300	2
172	Corpus uteri	33						9	23	33	43	49	0
173 174	Other parts of uterus, including chorionepithelioma Uterus, unspecified	10	_	0	1	4	62	188	319	341	374	261	6
175	Ovary, Fallopian tube and broad ligament	125	1	2	4	15			27	76	186	241	1
176	Other and unspecified female genital organs	23	-		1	0	4	13	21	70	100		1

Table LXXX. Cancer: Standardised Mortality Ratios by sex for selected sites, in standard regions, conurbations, and urban and rural aggregates outside the conurbations, 1960, England and Wales

	Cirban areas with populations on 158 Cirban areas with populations on 158 Cirban areas with populations on 158	All s		Buccal and ph (140–	arynx	Oesoph (150		Stom (15)		Intest and re- (152–	ctum	Lary (16		Trachea, and (162,	lung
	Contribution 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	M	F	М	F	М	F	М	F	М	F	М	F	М	F
	ENGLAND AND WALES	100	100	100	100	100	100	100	100	100	100	100	100	100	100
153	Regions: Northern East and West Ridings North Western North Midland Midland Eastern London and South Eastern South Western South Western Wales (including Monmouthshire)	102 100 104 91 98 88 109 97 94	106 98 104 99 98 93 102 92 95 104	94 112 112 82 96 91 94 99 124 96	118 106 122 94 89 86 91 72 100 138	84 82 116 92 98 110 94 94 122 109	114 88 107 67 93 96 99 88 111 150	125 103 117 85 102 78 92 79 101 126	140 107 128 90 97 77 86 83 85 139	105 109 103 103 102 85 97 108 94 99	110 101 110 101 101 94 97 95 94 100	120 104 101 95 94 78 104 117 84 102	112 93 146 113 70 56 102 51 79 152	99 94 106 88 98 87 119 96 82 80	96 88 51 88 81 94 128 95 76 67
	Conurbations: Tyneside	116 101 111 114 106 114	107 99 109 104 98 105	88 105 153 102 87 95	100 142 108 126 81 94	115 98 107 133 96 96	99 113 113 114 73 96	133 104 122 123 108 98	128 112 128 129 101 92	111 108 113 101 98 99	116 97 116 107 109 97	141 94 99 108 121 112	38 113 131 139 114 75	128 95 113 127 116 128	130 78 120 133 92 140
	Urban and rural aggregates: Conurbations	111	104	104	102	101	99	107	104	102	103	111	95	121	124
	Areas outside conurbations: Urban areas with populations of 100,000 and over	110	104	110	119	111	103	114	105	110	105	119	90	112	105
	Urban areas with populations of 50,000 and under 100,000 Urban areas with populations under 50,000 Rural districts	102 93 82	99 97 94	122 91 91	114 100 77	97 101 92	78 110 97	97 96 87	95 101 89	99 98 93	99 99 92	107 102 67	151 87 110	103 87 70	95 79 79

	All ages	0-	5-	15-	25-	35-	45-	55-	65-	75–	85 and over	S.M.R. (1950–52 = 100)		All	0-	5-	15-	25-	35-	45–	55-	65–	75–	85 and over	S.M.R. (1950–52 = 100)
						ľ	MALES	PERSON.				All sit	es (140-	-205)						FE	MALES				
	2,120 2,152 2,166 2,223 2,252	109 130 102 106 105	74 70 68 64 68	92 102 104 105 99	178 182 182 173 189	591 568 575 587 548	2,057 2,073 2,077 2,087 2,061	5,414 5,562 5,616 5,720 5,803	10,638 10,540 10,604 10,914 11,008	16,280 16,495 16,419 16,590 17,026	17,627 17,031 17,279 17,730 17,308	101 101 102 103 104	1951 1952 1953 1954	1,822 1,848 1,833 1,861 1,873	102 103 105 80 102	49 56 55 52 50	66 66 59 72 63	191 170 202 197 202	708 709 702 711 681	1,820 1,836 1,818 1,871 1,860	3,616 3,680 3,574 3,556 3,550	6,499 6,424 6,250 6,305 6,306	10,795 10,683 10,536 10,350 10,272	13,886 13,169 13,197 13,509 13,551	99 99 98 98 98
	2,274 2,312 2,333 2,366 2,391	109 100 116 100 96	75 64 80 67 80	101 109 90 98 99	178 185 184 185 194	561 534 520 550 531	2,019 2,035 2,047 2,020 2,008	5,885 5,950 5,869 5,983 6,038	11,102 11,231 11,504 11,624 11,663	16,962 17,111 17,230 17,457 17,478	18,038 17,849 17,761 17,889 18,543	105 106 106 107 108	1957 1958 1959	1,891 1,890 1,929 1,929 1,943	100 83 87 90 95	61 47 52 63 59	71 57 72 69 62	201 178 191 199 191	697 693 701 697 689	1,809 1,813 1,865 1,841 1,879	3,559 3,559 3,521 3,487 3,445	6,250 6,113 6,240 6,113 6,203	10,350 10,284 10,294 10,336 10,174	13,682 13,277 13,862 14,016 13,901	97 96 97 97 97
155								1				Kie	dney (18	0)			100	18			40	7.1	97	06 1	102
5	28 30 31 32 33	12 15 5 13 12	4 3 3 1 3	1 1 1 1 0	2 2 3 2 4	12 13 11 6 10	39 36 40 40 43	88 81 89 104 91	113 134 133 144 141	129 153 159 138 164	77 147 41 141	98 104 106 108 112	1951 1952 1953 1954 1955	19 21 19 20 18	15 18 10 9 13	4 3 3 4 4	$\begin{array}{c c} I \\ \hline 1 \\ 0 \\ 1 \end{array}$	2 2 2 2 2 2	6 6 6 5	14 16 15 15 13	40 42 42 33 40	71 72 70 75 61	87 106 95 106 90	86 108 79 130 48	110 103 104 95
	33 33 35 32 32	12 11 14 5 10	4 2 2 1 2	1 1 2 1	3 2 2 2 3 4	12 8 11 11 8	36 41 40 39 37	92 96 89 93 88	137 141 161 131 146	180 156 194 192 169	125 81 148 44 64	110 109 117 107 106	1956 1957 1958 1959 1960	20 19 22 20 22	14 5 15 9 10	4 3 3 3 4	1 0 2 0 2	3 3 1 1 1	5 3 6 8 8	14 10 19 15 17	38 42 35 30 37	72 67 68 76 72	91 97 112 91 113	121 92 154 109 108	103 95 109 98 109
											Brain a	nd other pa	rts of ne	rvous sy	stem (193)								0	.1 06
	35 39 38 39 42	24 22 16 13 24	10 13 13 11 16	9 11 12 10 9	17 17 17 16 19	37 42 39 40 35	65 76 74 76 83	95 117 104 118 118	47 46 57 56 65	20 11 20 25 23	15 29 - 13	99 111 107 109 117	1951 1952 1953 1954 1955	22 23 26 27 27	12 16 18 17 19	7 12 14 13 11	10 6 7 9	13 8 17 18 14	25 24 25 24 26	39 40 45 47 44	46 55 56 62 61	26 31 30 36 40	12 10 11 11 10	8 14 7 12 —	96 102 114 120 117
	41 41 50 48 50	22 15 28 24 19	17 10 21 15 20	11 13 12 12 9	17 19 20 20 18	39 39 41 42 45	74 77 90 99 95	111 118 139 119 137	75 68 82 82 82 86	19 19 22 19 29	12 23 — 11	114 114 136 131 136	1956 1957 1958 1959 1960	28 29 34 35 33	18 9 14 23 23	10 10 14 15 12	8 8 11 11 7	15 11 14 18 14	29 27 29 33 30	47 50 55 55 56	67 76 90 78 84	42 44 56 58 50	20 14 14 19 18	11 -16 15	125 126 149 153 146

F* 2

	Table	LA	AAI-	-cor	ııını	eu																			
	All ages	0-	5-	15-	25-	35-	45-	55-	65-	75-	85 and over	S.M.R. (1950–52 = 100)		All ages	0-	5-	15-	25-	35-	45-	55-	65–	75-	85 and over	S.M.R. (1950–52 = 100)
			-19	-18	10	- 43-	M	IALES			I	one (includ	ling iaw l	bone) (1	96)					FEN	IALES				The state of the s
	21 19 19 17 16 18 16 16 15 15	2 4 -1 1 1 1 3 -	5 5 5 4 6 7 3 5 4 4	13 13 13 11 9 14 12 11 12 11	5 7 5 4 4 6 5 6 4 7	9 5 8 6 6 9 6 4 5	17 17 14 13 9 15 12 13 12 11	43 32 45 29 32 32 34 32 28 28	94 80 70 75 67 66 54 62 61 55	133 117 109 112 122 98 114 102 92 92	180 108 132 122 115 100 163 136 111 117	104 91 90 81 78 86 77 77 71 71 72	1951 1952 1953 1954 1955 1956 1957 1958 1959 1960	14 14 13 14 12 13 12 13 11 11	1 3 2 2 2 2 2 3 1 1	3 4 5 5 4 5 4 6 6 5	7 10 7 7 7 4 9 6 10 9 7	6 5 4 2 4 4 2 5 3 4	6 6 4 4 4 6 3 5 3 3	11 13 8 8 8 8 8 9 7 7 7 8	24 23 23 25 20 19 17 15 14 16	39 46 39 52 36 38 39 36 26 30	74 59 77 55 51 68 68 68 57 62 47	71 47 33 87 90 58 87 101 83 60	98 100 91 95 79 89 83 86 75 71
156	47 52 53 54 57 60 60 60 67	46 60 54 52 38 47 46 46 49 45	31 32 30 28 26 29 28 35 34 36	22 24 24 24 25 29 27 22 24 25	24 21 16 21 21 23 24 24 21 22	29 29 36 36 34 33 31 33 40 44	41 44 47 48 55 49 47 48 41 55	81 96 108 97 106 95 110 114 105 104	152 166 148 180 206 179 194 193 191 229	138 189 207 184 244 285 318 262 314 349	250 250 267 205 200 340	eukaemia a 96 107 108 110 117 116 122 121 121 134		aemia (4 41 44 44 44 43 47 47 46 52 51	204) 47 42 48 36 51 41 41 37 39 41	21 23 23 21 23 22 21 20 30 24	15 17 13 20 16 19 12 11 19 16	18 13 15 15 18 22 18 16 20 18	28 25 32 27 26 21 31 25 28 21	42 38 39 38 42 36 43 41 46 41	70 69 69 74 62 77 70 66 77 81	104 101 130 125 110 125 117 124 128 138	101 140 113 132 131 151 172 191 183 190	38 61 59 112 120 120 160 145 202	104 103 109 110 107 115 115 113 125 124
	All ages	2:	5-	35-	4	5-	55-	65-	75-	- a	nd (S.M.R. 1950–52 = 100)		All		25-	35-		45-	55-	6	55-	75-	85 and over	S.M.R. (1950–52 =100)
	49 44 42 44 42 37 35 37 35 37 35 32		1 1 2 2 1 1 1 1 2 1 2 1 2 1 2 1 2	4 3 4 3 4 1 3 2 5 2	in ret	15 18 13 18 11 12 9 16 14 18	75 75 67 65 68 50 54 52 43 48	275 234 217 222 210 190 178 168 176 146	720 622 620 611 600 54 460 511 488	2 0 3 5 1 1 8 7 6	881 631 691 878 718 788 698 784 656	tongue, re 103 91 87 90 85 75 69 73 69	st of mou 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960	11 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14		2 1 1 1 0		3 3 3 3 4 4 3 1 1	8 9 7 9 12 10 7 8 10 8	FEM. 23 23 22 17 21 25 21 19 21 19		57 56 43 48 35 50 42 45 38 40	107 100 100 100 123 94 105 111 102 104	235 128 138 161 174 185 185 191 130 202	104 97 86 91 94 97 91 91 85 89
							10	140	403	3	660	63	1960	1		1			0	19		40	104	202	
							10	140	40.	3	560	63	1960			1		,	8	19		40	104		
	25 26 24 27 25 20 24 22 22 19			65 56 66 55 54 55 42		15 16 17 15 11 10 15 13 17 15	52 50 42 59 59 47 41 49 47 40	133 142 140 141 124 109 135 96 108	28 27 23 27 25 19 21 24 21	4 0 2 2 7 7 4 4 10 4 4 10 4 4 10 4 4 10 4 10 4	288 338 338 338 308 262 337 205 256 149	Pha 101 102 95 106 97 79 90 83 85 73	1951 1952 1953 1954 1955 1956 1957 1958 1959 1960	5–148)	3 4	1 2 1 2 3 2 1 3 3 1		68 68 66 66 77 77 7	20 17 18 21 20 16 15 20 13 19	30 35 28 30 30 31 33 33 33 33 33)	41 48 39 49 43 46 54 36 41 46	54 62 51 55 57 47 61 51 46 48	83 47 66 62 84 87 71 53 73 69	95 104 89 104 100 95 103 96 87 96
			1 1	6 5 5 4 5 4		15 16 17 15 11 10 15 13	52 50 42 59 59 59 47 41 49 47	133 142 140 141 124 109 135 96	28 27 23 27 25 19 21 24 21 18 76 84 72 66 67 67 68 67 68 68 68 68 68 68 68 68 68 68 68 68 68	14 0 0 12 27 74 14 14 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	288 338 338 338 308 262 337 205 256	Pha 101 102 95 106 97 79 90 83 85 73 Oess 100 98 88 85 88 88 85 88 88 87 9	1951 1952 1953 1954 1955 1956 1957 1959 1960 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960	5–148) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 4 2 5 4 4 4 5 4 3	2 3 2 1		6886886666777	20 17 18 21 20 16 15 20	300 355 288 300 301	1 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	41 48 39 49 43 46 54 36 41	54 62 51 55 57 47 61 51 46	83 47 66 62 84 87 71	95 104 89 104 100
157	20 24 22 22 22 19 71 70 63 61 63 64 61 60 63		1 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 2 1 1 1 1 2 1	88 77 98 89 100 86 68		15 16 17 15 11 10 15 13 17 15 15 15 16 17 17 17 17 17 17 17	52 50 42 59 59 59 47 41 49 47 40 157 148 127 123 126 141 119 123 127 113	133 142 140 141 124 109 135 96 108 96 232 330 337 329 322 334 331 299 2,110 2,009 2,044 1,98 1,954	28 27 23 27 25 19 21 24 21 18 7 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	14 0 0 0 0 0 0 0 0 0	288 338 338 338 338 338 338 338 308 262 337 205 256 149 814 862 735 811 679 775 709 557 856 777	Pha 101 102 95 106 97 79 90 83 85 73 79 90 88 88 88 88 88 88 8	1951 1952 1953 1954 1955 1956 1957 1959 1960 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960	5-148) 1	3 4 2 2 5 4 4 4 5 4 4 5 4 4 5 6 8 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8	2 1 3 3 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1		6 8 8 6 6 6 7 7 7 7	20 17 18 21 20 16 15 20 13 19 20 22 26 25 24 26 27 20 21 28	30 35 28 30 30 31 33 33 28 31 44 44 44 44 41 43 39 39 39 39 39 36 35	8 1 1 3 3 3 3 1 1 1 2 4 4 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	41 48 39 49 43 46 54 36 41 46 160 143 149 161 152 152 159 141 144	54 62 51 55 57 47 61 51 46 48 279 262 283 314 334 307 315 321 302	83 47 66 62 84 87 71 53 73 69 318 338 414 404 365 387 375 441 409	95 104 89 104 100 95 103 96 87 96 87 96 101 99 99 104 106

All ages	25-	35-	45-	5 -	6 -	75-	85 and over	S.M.R. (1950–52 =100)	1222 1025	All	25–	35–	45-	55-	65-	75–	85 and over	S.M.R. (1950–52 =100)
				MAI	LES			100	Rectum (154				FE	MALES	10 May 2			
172	6	35	101	354	981	1,834	2,085	102	1951	106	6	27	74	193	434	770	917	99
162	6	26	97	326	889	1,796	2,031	95	1952	105	4	27	74	193	390	781	912	96
153	5	24	88	306	852	1,708	1,838	90	1953	106	9	26	84	197	378	758	875	96
157	6	27	95	288	854	1,737	2,108	91	1954	108	7	28	74	184	381	776	1,099	96
149	7	22	95	311	760	1,664	1,615	86	1955	104	7	20	69	183	378	708	1,078	96
147	4	21	77	281	794	1,679	1,938	84	1956	103	5	27	74	163	382	670	1,081	90
144	7	20	83	274	773	1,575	1,663	82	1957	98	4	22	65	152	357	666	1,043	84
144	4	23	91	291	735	1,565	1,568	82	1958	107	4	21	69	171	367	731	1,197	91
140	5	23	83	272	729	1,492	1,789	79	1959	111	6	23	68	166	368	806	1,145	93
137	5	21	86	253	718	1,448	1,872	77	1960	103	3	17	68	147	375	696	1,030	86
								P	ancreas (15	7)								
77	3	20	63	211	389	656	678	100	1951	60	1	6	42	110	272	415	576	94
82	3	17	67	215	441	674	646	105	1952	68	1	9	40	126	285	506	642	105
81	3	20	73	197	438	649	794	104	1953	65	2	11	41	116	266	486	474	99
83	3	20	71	204	448	667	784	105	1954	67	1	10	40	111	275	462	689	100
86	2	19	69	216	441	718	795	108	1955	71	2	9	45	121	294	465	623	105
86	2	16	74	223	442	712	538	107	1956	67	2	10	32	126	276	442	549	98
87	3	15	76	218	471	656	709	108	1957	74	1	15	43	129	275	510	603	107
91	3	16	75	214	472	762	886	113	1958	75	2	9	40	122	305	476	718	107
95	0	17	71	238	500	762	933	117	1959	79	2	10	42	141	289	534	658	111
94	1	18	70	229	485	770	957	115	1960	79	1	12	42	115	308	540	739	111
							Т	rachea, bron	ichus and lu	ng (162, 1	63)							
530	22	175	850	1,952	2,359	1,448	729	101	1951	91	11	39	100	221	352	396	288	99
568	25	179	843	2,142	2,514	1,623	1,046	107	1952	98	7	40	107	253	344	438	324	105
607	27	173	881	2,245	2,768	1,913	868	114	1953	98	11	40	107	235	361	435	263	104
657	25	181	934	2,410	3,040	2,018	838	122	1954	102	11	41	122	235	379	388	373	107
693	24	175	895	2,539	3,310	2,280	1,000	128	1955	106	10	39	120	261	390	416	275	111
726	25	172	918	2,625	3,473	2,473	1,288	133	1956	111	10	40	122	267	393	445	428	115
759	20	169	915	2,724	3,658	2,655	1,384	138	1957	116	9	40	133	280	390	476	364	118
784	23	166	916	2,684	3,923	2,969	1,182	142	1958	119	11	48	135	278	401	468	404	121
831	24	182	912	2,849	4,171	3,211	1,378	149	1959	123	10	46	147	287	411	467	368	124
856	28	158	898	2,879	4,316	3,564	1,862	153	1960	132	8	52	146	300	456	517	399	132

									1	Breast (170)					##O 1	1.000	1 542	2.402 11	99
	3 3 4 4 4	_ _ _ _ _	1 1 3 2 1	3 4 4 2	8 6 14 8 12	13 14 15 19 14	24 20 16 30 28	34 62 44 27 64	102 94 128 125 119	1951 1952 1953 1954 1955	352 363 356 364 369	31 30 36 34 39	222 217 218 228 207	504 513 494 528 546	779 791 766 747 756	1,062 1,114 1,073 1,060 1,062	1,543 1,579 1,510 1,537 1,535	2,402 2,088 2,289 2,354 2,317	101 99 100 100
	3 3 3 3 3	_ _ _ _ _	1 0 2 0 0	4 2 3 2 2	8 10 6 7 5	16 17 14 13 16	17 24 37 24 25	50 47 34 56 53	105 105 109 92 92	1956 1957 1958 1959 1960	371 370 383 371 382	35 32 39 35 33	212 196 214 201 194	531 538 556 551 569	750 767 757 742 774	1,067 1,029 1,089 1,050 1,051	1,549 1,535 1,525 1,409 1,498	2,341 2,228 2,351 2,192 2,217	100 99 101 97 100
					FEMAL Cervix uter									Corpu	MALES s uteri (1'				
	114 111 109 105 108	18 16 23 20 24	73 79 77 72 79	178 173 160 172 156	297 289 267 239 254	314 306 308 302 314	392 359 358 321 325	394 277 329 304 275	100 97 94 90 92	1951 1952 1953 1954 1955	52 54 53 52 50	1 1 2 1 2	13 12 8 12 8	53 56 54 44 47	128 132 145 136 129	205 205 177 184 175	277 277 273 262 237	171 257 230 267 281	99 102 98 95 91
	108 106 116 109 110	27 24 24 20 21	78 93 99 100 109	165 150 178 162 183	235 223 246 208 192	316 302 304 286 279	328 331 348 371 354	312 332 378 399 379	91 89 96 90 90	1956 1957 1958 1959 1960	51 52 51 52 53	1 2 1 1 2	8 7 8 8 7	51 45 45 41 39	135 133 131 130 133	185 179 178 190 187	218 277 248 223 237	249 201 191 301 300	92 93 90 91 92
159		34.0		e la rese	MALI	es es			No.	gris, a differen	Calify		-		MALES				
					Prostate (0	vary, Fallo					265	101
	143 142 149 157 156	$\begin{bmatrix} -1 \\ -0 \\ 0 \\ -1 \end{bmatrix}$	2 2 1 2 2	20 18 23 21 16	168 161 172 160 152	889 879 890 904 917	2,227 2,207 2,364 2,520 2,484	3,102 2,754 2,706 3,297 3,244	100 98 103 107 105	1951 1952 1953 1954 1955	112 110 112 114 121	13 13 11 14 13	60 59 64 63 70	201 209 207 202 207	289 285 280 283 305	328 298 321 318 335	318 280 301 313 322	265 277 197 292 359	101 98 100 101 106
	165 161 166 164 166	0 0 =	0 2 2 1 1	16 14 18 16 15	163 150 156 154 160	937 929 922 882 912	2,684 2,558 2,707 2,696 2,589	3,588 3,302 3,511 3,833 4,011	111 107 111 109 110	1956 1957 1958 1959 1960	121 124 124 125 125	13 12 11 17 15	74 73 52 57 62	191 210 199 187 188	323 315 321 322 319	317 325 359 353 341	348 330 332 365 374	306 277 255 311 261	106 107 106 107 107
	166	339-334	1	13	100		_,-,-		Bla	adder (181 · 0	, ·8)								
	84 89 86 87 91	2 1 0 1 2	11 11 6 11 8	63 65 59 54 60	210 201 196 212 197	471 500 465 464 500	766 868 881 839 929	1,033 1,046 1,103 1,027 1,013	100 105 101 101 105	1951 1952 1953 1954 1955	32 32 34 36 36 36	1 1 1 2 1	2 5 4 4 4	20 18 21 15 19	52 50 53 52 51	131 118 123 147 145	278 273 295 296 298	221 358 342 391 341	98 97 103 106 106
	93 94 92 91 96	1 1	13 11	60 51 46	201 202 200	494 493 511	941 985 929	1,250 1,209 1,091	108 107 105	1956 1957 1958	36 36 36 40	=	4 4 4 3 4	14 13 16 16	42 50 50 57	143 142 140 139	294 285 283 307	514 446 372 508	104 104 103 111

Table LXXXI—continued

														18					
	All	25-	35-	45-	55–	65-	75-	85 and over	S.M.R. (1950–52 =100)		All ages	25-	35–	45-	55-	65–	75–	85 and over	S.M.R. (1950–52 =100)
			1	8	MAL	ES		198	Other ur	inary organ	s (181·7)			FEI	MALES				
	1 0 0 1 1			0 1 1 1 0	2 1 1 2 2	2 1 2 4 3	6 4 4 9 3		141 99 98 175 115	1951 1952 1953 1954 1955		_ _ _ _	$\begin{bmatrix} -1 \\ -0 \\ - \end{bmatrix}$		2 2 0 3 2	3 3 6 5 3	8 5 7 3 6		92 86 113 111 77
	1 1 1 1 1			1 2 0 0 1	2 1 3 1 2	4 3 1 6 3	2 12 3 12 7		123 186 111 174 135	1956 1957 1958 1959 1960	1 1 1 1 1			- 1 1 0 1	2 3 1 2 3	5 4 3 5	10 7 1 2 3	12 5 5 5 10	130 118 61 94 88
1									Hodgl	cin's disease	(201)			Mary Care	HILLIAN HILLIAN	g nällaren	tt (A)	20	
	22 23 23 23 23 23	21 26 23 24 28	24 23 27 29 26	35 32 30 30 29	38 45 41 39 40	51 49 55 51 49	31 36 32 39 44	34 46 — 27 13	104 106 106 107 106	1951 1952 1953 1954 1955	12 12 13 13 13 12	15 16 13 12 12	14 10 12 11 12	12 10 16 11 14	20 20 22 22 22 18	24 28 24 32 30	24 29 24 30 20	30 7 13 12 42	103 103 106 105 104
	24 27 22 25 23	26 28 25 30 23	28 32 21 25 29	23 37 29 38 31	49 48 38 42 41	56 50 45 51 44	47 54 56 56 44	12 47 34 11 11	108 124 100 114 106	1956 1957 1958 1959 1960	13 12 13 14 15	16 13 14 18 14	13 11 12 15 13	13 14 14 13 15	22 23 22 24 24	27 26 32 28 34	36 30 24 33 43	12 	112 104 113 118 125

Table LXXXII. Diseases of the circulatory system, vascular lesions affecting the central nervous system, and congenital malformations of circulatory system: Death rates per million living, and Standardised Mortality Ratios (1950–52 = 100), by sex, 1950 to 1960, England and Wales

Abbre- viated List No.	ICD No.	Descript 106,344 70 133 41 41 41 41 41 41 4	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
B24	400-402	Rheumatic fever $\left\{ \begin{array}{l} M \\ F \end{array} \right.$	12	8 9	7 8	7 7	7 6	5 5	5 5	4 4	3 3	3 3	3 3
B25	410-416	Chronic rheumatic heart disease { M F	201	194 298	164 247	157 240	148 237	140 232	142 223	138 225	118 208	113 195	112 196
(420	Arteriosclerotic heart disease including coronary M F	1,671 903	1,789 956	1,874 999	1,860 1,012	2,016 1,084	2,097 1,163	2,206 1,222	2,230 1,243 81	2,395 1,368 77	2,385 1,393 69	2,561 1,497 76
B26	421	Chronic endocarditis not specified as rheumatic $\left\{ egin{array}{l} M \\ F \end{array} \right.$	74 56	64 47	74 63	71 60	81 64	75 60	75 59	70	65 988	65 868	66 809
	422	Other myocardial degeneration $\left\{ egin{array}{cccccccccccccccccccccccccccccccccccc$	1,464 1,847	1,552 1,959	1,303 1,629	1,230 1,603	1,177 1,528	1,179 1,550	1,112	976 1,335	1,382	1,275	1,232
	430	Acute and subacute endocarditis $\left\{ egin{array}{cccccccccccccccccccccccccccccccccccc$	11 7	10 7	9 6	9	5	10 5	5	9 6	6	5 249	6 265
B27 {	431–434	Other diseases of heart $\left\{ \begin{array}{cccccccccccccccccccccccccccccccccccc$	161 208	210 231	202 238	216 248	231 250	230 261	235 273	253 286	260 300	298	310 353
B28, 29	440–447	Hypertension with or without mention of heart M Gisease F	461 466	492 494	440 444	451 453 224	457 472 225	458 498 225	444 486 220	419 464 198	400 469 221	362 437 209	423 211
B46 (part) {	450	General arteriosclerosis M	246 237	262 255	229 227	233	228	251 22	242	231	253 22	261	269 32
(part)	465	Pulmonary embolism and infarction $\left\{ {\stackrel{M}{F}} \right\}$	15 15	16 14	15 16	18 19	19	21	25 89	22 24 95	29 101	31	34 112
	Rem. of 451–468	Other circulatory diseases $\binom{M}{F}$	52 63	49 56	65 69	68 70	76 79	81 85	94	93	101	102	115
	400–468	Diseases of the circulatory system $\dots \left\{ egin{array}{cccccccccccccccccccccccccccccccccccc$	4,369 4,121	4,645 4,344	4,382 3,946	4,311 3,950	4,446 3,973	4,521 4,131	4,558 4,124	4,425 3,980	4,595 4,183	4,401 4,065	4,542 4,151
	400–468	Standardised Mortality Ratios $\left\{ egin{array}{lll} M \\ F \end{array} \right.$	98 102	104 105	97 93	95 92	97 90	98 92	99 91	95 86	98 89	94 85	96 86
B22	330–334	Vascular lesions affecting the central nervous system $\left\{ egin{array}{l} M \\ F \end{array} \right.$	1,284 1,656	1,378 1,732	1,381 1,761	1,356 1,716	1,433 1,811	1,454 1,868	1,442 1,877	1,411 1,854	1,439 1,921	1,412 1,883	1,405 1,909
B41 (part)	754	Congenital malformations of circulatory system $\left\{ egin{array}{l} M \\ R \end{array} \right.$	55 43	50 42	42 35	43 34	45 33	47 33	47 34	52 39	52 37	50 39	53 43

Table LXXXIII. Diseases of the circulatory system, vascular lesions affecting the central nervous system, and congenital malformations of circulatory system: Deaths and death rates per million living, and per 100 deaths from all circulatory diseases, by sex and age, 1960, England and Wales

Abbre- viated				N	I ales		10	1 19	報		Fe	emales			
List No.	Cause of death	All ages	0-	15-	25-	45-	65-	75 and over	All ages	0-	15-	25-	45-	65-	75 an
B24	Rheumatic fever $\left\{ egin{array}{ll} Deaths \\ Rate \\ Per cent \end{array} \right.$	61 2·8 0·1	9 1·7 12·9	8 2·7 6·5	0·67 0·2	18 3·2 0·1	15 11 0·1	7 10 0·0	64 2·7 0·1	11 2·2 18·0	8 2·7 9·9	0·99 0·5	17 2·8 0·1	18 6·2 0·1	7
B25	Chronic rheumatic heart Deaths Rate Per cent	2,469 112 2·5	0·75 5·7	47 16 38·2	394 66 14·8	1,165 207 4·2	517 366 1·8	342 496 0·8	4,652 196 4·7	0·78 6·6	30 10 37·0	594 98 48·2	1,976 320 16·7	1,084 521 4·5	96 75 1
B26 {	Arteriosclerotic heart disease $\begin{cases} Deaths \\ Rate \\ Per cent \end{cases}$	56,514 2,561 56·3	0·19 1·4	8 2·7 6·5	1,674 279 62·7	20,673 3,673 74·4	18,466 13,069 63·2	15,692 22,742 38·9	35,447 1,497 36·0	0·20 1·6	4 1·4 4·9	210 34 17·0	5,699 923 48·3	12,042 5,784 50·0	17,49 13,74 28
300	Degenerative heart disease { Deaths Rate Per cent	19,550 886 19·5	12 2·2 17·1	13 4·4 10·6	124 21 4·7	1,487 264 5·3	4,074 2,883 13·9	13,840 20,058 34·3	30,747 1,298 31·3	0·98 8·2	8 2·7 9·9	66 11 5·4	1,058 171 9·0	4,358 2,093 18·1	25,2 19,8 41
B27	Other diseases of heart $\dots \begin{cases} Deaths \\ Rate \\ Per cent \end{cases}$	6,019 273 6·0	30 5·6 43·0	29 9·8 23·6	121 20 4·5	1,190 211 4·3	1,720 1,217 5·9	2,929 4,245 7·3	7,479 316 7·6	26 5·1 42·7	17 5·7 21·0	103 17 8·4	791 128 6·7	1,823 876 7·6	4,7 3,7 7
B28	Hypertension with heart Deaths Rate Per cent	4,678 212 4·7	0·19 1·4	0·34 0·8	42 7·0 1·6	1,021 181 3·7	1,579 1,117 5·4	2,034 2,948 5·0	6,616 279 6·7		198	31 5·1 2·5	739 120 6·3	1,939 931 8·1	3,9 3,0 6
B29	Hypertension without men- Deaths Rate tion of heart Per cent	3,123 142 3·1	0·19 1·4	7 2·4 5·7	188 31 7·1	1,040 185 3·7	817 578 2·8	1,070 1,551 2·6	3,407 144 3·5	0·20 1·6	3 1·0 3·7	80 13 6·5	608 99 5·2	823 395 3·4	1,3 1,4 3
B46 (part)	Other circulatory diseases Deaths Rate Per cent	7,830 355 7·8	12 2·2 17·1	10 3·4 8·1	117 19 4·4	1,201 213 4·3	2,018 1,428 6·9	4,472 6,481 11·1	9,907 418 10·1	13 2·5 21·3	3·7 13·6	142 23 11·5	914 148 7·7	1,963 943 8·2	6,8 5,3 11
	All circulatory diseases \dots $\left\{ egin{array}{ll} \mbox{Deaths} \\ \mbox{Rate} \\ \mbox{Per cent} \end{array} \right.$	100,244 4,542 100	70 13 100	123 41 100	2,664 444 100	27,795 4,938 100	29,206 20,669 100	40,386 58,530 100	98,319 4,151 100	61 12 100	81 27 100	1,232 202 100	11,802 1,912 100	24,045 11,549 100	61,0 47,9
B22	Vascular lesions affecting Deaths central nervous system Rate	31,006 1,405	50 9·3	40 13	473 79	6,155 1,093	9,484 6,712	14,804 21,455	45,216 1,909	35 6·9	37 13	503 83	5,936 962	11,633 5,587	27,0 21,2
B41 (part)	Congenital malformations of Deaths circulatory system Rate	1,161 53	916 171	62 21	68 11	85 15	22 16	8 12	1,009	779 152	51 17	64 11	79 13	27 13	10

Table LXXXIV. Diseases of the circulatory system, and vascular lesions affecting the central nervous system: Death rates per million living, by sex, at age 45–64, in the standard regions, conurbations, and urban and rural aggregates outside the conurbations, 1960, England and Wales

	Greater London Greater contract combination of bibber west with prevailment of	All ca	auses	Vascular affecting nervous (330-	central system	Chronic ri heart dise chronic en (410–410	ease and docarditis	Arterios heart d (42	isease	Myoca degener (422	ation	Other di of he (430–4	art	Hypertens or witho dise (440–4	ut heart ase
		М	F	М	F	M	F	М	F	М	F	М	F	M	F
	ENGLAND AND WALES	13,370	7,234	1,093	962	308	366	3,673	923	164	126	211	128	366	218
163	Regions: Northern East and West Ridings North Western North Midland Midland Eastern London and South Eastern Southern South Western Wales (including Monmouth-shire) Conurbations Tyneside West Yorkshire South East Lancashire Merseyside West Midlands Greater London	14,769 14,133 15,243 12,196 13,601 10,865 12,826 12,215 12,644 14,617 14,157 15,913 15,164 15,732 15,865 14,391 12,986	8,248 7,524 8,204 7,179 7,347 6,204 6,698 6,504 6,850 7,920 7,271 7,956 7,711 8,278 8,203 7,108 6,709	1,241 1,139 1,283 1,065 1,222 835 915 1,037 1,128 1,288 1,103 1,519 1,264 1,307 1,308 1,297 885	1,204 967 1,121 976 961 897 789 847 954 1,219 890 1,115 1,004 1,178 977 902 742	310 287 358 278 360 261 300 243 242 398 326 260 268 359 353 413 307	355 443 506 319 397 234 319 261 276 501 411 301 423 496 605 437 357	4,218 4,076 4,332 3,212 3,282 2,911 3,534 3,296 3,448 4,255 3,851 4,269 4,855 4,163 4,423 3,217 3,586	1,343 1,063 1,111 834 864 783 766 779 863 1,046 907 1,319 1,217 1,000 1,254 797 748	159 169 195 221 190 149 93 150 259 169 123 163 209 209 64 214 60	165 126 160 140 169 73 75 122 159 151 104 97 119 215 51 156 62	233 220 299 230 246 156 152 215 184 220 204 173 255 288 314 264 140	131 154 184 170 142 84 87 122 107 134 123 115 178 178 178 192 129 83	303 355 400 400 390 287 344 318 438 442 382 308 405 464 372 438 347	214 237 224 220 222 165 189 190 283 313 209 239 217 226 203 197 203
	Areas outside conurbations: Urban areas with populations of 100,000 and over	14,441	7,634	1,146	995	330	435	3,957	987	137	126	239	170	379	242
	Urban areas with populations of 50,000 and under 100,000	13,542	7,048	1,106	912	274	312	3,679	935	189	122	281	124	375	208
	Urban areas with populations under 50,000 Rural districts	13,137 11,388	7,271 6,915	1,149 973	1,061 985	316 262	345 275	3,681 3,139	948 878	217 187	142 153	215 177	131 109	378 310	209 236

Table LXXXV. Diseases of the circulatory system, and vascular lesions affecting the central nervous system: Death rates per million living, by sex, at age 65 and over, in the standard regions, conurbations, and urban and rural aggregates outside the conurbations, 1960, England and Wales

Chouse Countries Chouse Countries Chouse Countries	All ca	auses	Vascular affecting nervous (330-	central system	Chronic ri heart dise chronic en (410–41	ease and docarditis	Arterios heart o	lisease	Myoca degene (42	ration	Other d of he (430–	eart		out heart
Want Yorkshare South East Lancaching	М	F	М	F	М	F	М	F	М	F	М	F	M	F
ENGLAND AND WALES	79,529	57,922	11,549	11,537	903	985	16,243	8,803	8,024	8,452	2,211	1,950	2,615	2,552
Regions: Northern East and West Ridings North Western North Midland Midland Eastern London and South Eastern Southern South Western Wales (including Monmouth-shire)	85,421 81,782 85,671 76,683 78,264 70,231 77,650 75,163 81,023	63,872 60,348 63,992 57,273 57,929 52,560 54,664 53,146 58,159 62,163	15,110 12,888 12,902 11,844 12,021 9,835 9,505 10,585 11,715	14,212 12,259 12,894 11,603 11,522 10,635 9,791 10,826 12,131 13,742	614 883 881 611 824 742 1,152 874 895	783 855 1,036 736 939 884 1,202 886 901	17,338 17,154 17,615 14,240 14,477 14,956 16,481 15,704 16,453	10,921 10,200 9,472 7,574 8,034 8,206 8,579 8,370 8,141 8,921	9,055 7,245 8,654 8,886 8,021 6,918 6,543 8,111 10,907	9,000 8,331 9,023 8,822 8,990 7,267 7,480 8,018 10,410	2,310 2,090 2,556 2,581 2,119 2,011 2,111 2,281 2,064 1,962	2,000 1,866 2,284 2,326 2,162 1,733 1,823 1,562 1,756	2,269 2,404 2,231 2,958 2,725 2,132 2,661 2,881 2,983 3,285	2,483 2,638 2,534 2,570 2,657 1,978 2,654 2,192 2,541
Conurbations Tyneside West Yorkshire South East Lancashire Merseyside West Midlands Greater London	81,526 90,444 85,882 85,931 88,058 80,079 77,734	57,919 63,585 61,185 64,891 61,500 58,280 54,155	11,003 16,083 13,803 13,078 12,519 12,146 8,725	10,672 13,868 12,415 12,937 11,200 11,608 9,090	1,014 778 763 961 596 708 1,251	1,154 925 892 1,098 878 958 1,332	16,854 17,111 19,224 16,314 19,404 14,000 16,818	9,136 10,811 11,469 8,724 9,889 7,923 8,787	6,772 8,583 7,237 9,000 5,750 7,663 5,749	7,577 8,075 8,008 9,960 5,600 9,322 6,651	2,123 1,889 2,382 2,441 2,942 1,888 1,934	1,953 1,849 1,831 2,448 2,511 2,049 1,744	2,639 2,889 2,342 1,922 2,173 3,247 2,803	3,174 2,700 2,566 2,585 2,500 2,656 2,979 2,735
Areas outside conurbations: Urban areas with populations of 100,000 and over Urban areas with populations of 50,000 and under 100,000 Urban areas with populations under 50,000 Rural districts	86,926 82,373 78,727 72,423	60,123 58,564 58,286 55,787	12,767 11,882 11,852 11,255	12,493 12,393 12,156 11,392	996 789 856 777	1,014 884 846 864	17,949 16,944 15,963 14,465	9,524 8,687 8,567 8,060	7,774 9,075 8,854 8,760	8,434 8,618 9,383 8,862	2,416 2,130 2,216 2,251	1,900 2,000 1,918 1,994	2,938 2,398 2,628 2,465	2,640 2,378 2,487 2,374

Table LXXXVI. Congenital malformations of the circulatory system (ICD No. 754): Deaths and death rates per million living, by sex and age, 1952 to 1960, England and Wales

2 2 3	1	19:	52	195	53	19:	54	19:	55	19.	56	19:	57	19	58	19:	59	19	60
Age		М	F	М	F	М	F	М	F	M	F	M	F	M	F	М	F	M	F
7 2 2	T	210						- N	Deaths							35			
All ages		890	804	913	786	948	767	1,007	756	1,017	791	1,126	911	1,124	870	1,102	921	1,161	1,009
0		604	491	623	491	647	514	645	430	677	506	725	553	726	528	724	584	747	612
1		56	68	60	64	48	58	80	76	58	59	71	60	87	71	76	66	83	84
5		42	51	51	37	50	42	53	55	60	49	68	55	52	53	79	67	86	83
15		132	111	117	106	122	87	144	115	132	102	140	115	148	117	132	105	130	115
45		40	56	46	58	60	45	67	58	65	53	94	95	86	79	69	68	85	79
65 and over		16	27	16	30	21	21	18	22	25	22	28	33	25	22	22	31	30	36
1 2 2 2						91 F2	Dea	th rates	per mi	llion liv	ing*								
All ages		42.2	35.2	43.1	34.3	44.5					34.2	52.0	39.2	51.7	37.2	50.4	39.2	52.6	42.6
0		1.75	1.50	1.77	1.48	1.87	1.57	1.88	1.33	1.88	1.49	1.95	1.58	1.91	1.47	1.88	1.61	1.85	1.61
1		38.4	48.9	43 · 1	48.2	35.3	44.8	59.4	59.2	43.3	46.3	52.6	46.8	63.7	54.7	54.6	49.9	57.7	61.5
5		13.1	16.5	15.4	11.6	14.8	13.0	15.4	16.7	17.1	14.6	19.2	16.2	14.6	15.6	22.3	19.8	24.3	24.5
15		14.5	11.8	12.9	11.4	13.6	9.42	16.0	12.5	14.8	11.2	15.7	12.7	16.6	13.0	14.8	11.6	14.5	12.7
		8.00	9.76	9.05	10.0	11.6	7.69	12.8	9.81	12.2	8.88	17.4	15.8	15.7	13.0	12.4	11.1	15.1	12.8
		8.01	9.23	7.98	10.1	10.4	6.93	8.85	7.15	12.2	7.03	13.5	10.3	12.1	6.79	10.6	9.43	14.3	10.7
	0 1 5 15 65 and over All ages 0 5 15	All ages	Age M All ages 890 0 604 1 56 5 42 15 40 65 and over 16 All ages 42·2 0 1·75 1 38·4 5 13·1 15 14·5 45 8·00	All ages 890 804 0 604 491 1 56 68 5 42 51 15 132 111 45 40 56 65 and over 16 27 All ages 42.2 35.2 0 1.75 1.50 1 38.4 48.9 5 13.1 16.5 15 14.5 11.8 45 8.00 9.76	All ages 890 804 913 0 604 491 623 1 56 68 60 5 42 51 51 15 132 111 117 45 40 56 46 65 and over 16 27 16 All ages 42·2 35·2 43·1 0 1·75 1·50 1·77 1 38·4 48·9 43·1 5 13·1 16·5 15·4 15 14·5 11·8 12·9 45 8·00 9·76 9·05	All ages 890 804 913 786 0 604 491 623 491 1 56 68 60 64 5 42 51 51 37 15 132 111 117 106 45 40 56 46 58 65 and over 16 27 16 30 All ages 42·2 35·2 43·1 34·3 0 1·75 1·50 1·77 1·48 1 38·4 48·9 43·1 48·2 5 13·1 16·5 15·4 11·6 15 14·5 11·8 12·9 11·4 45 8·00 9·76 9·05 10·0	All ages 890 804 913 786 948 0 604 491 623 491 647 1 56 68 60 64 48 5 42 51 51 37 50 15 132 111 117 106 122 45 40 56 46 58 60 65 and over 16 27 16 30 21 All ages 16 27 16 30 21 All ages 175 1.50 1.77 1.48 1.87 1 38.4 48.9 43.1 48.2 35.3 5 13.1 16.5 15.4 11.6 14.8 15 14.5 11.8 12.9 11.4 13.6 45 8.00 9.76 9.05 10.0 11.6	Age	All ages 890 804 913 786 948 767 1,007 0 604 491 623 491 647 514 645 1 56 68 60 64 48 58 80 5 42 51 51 37 50 42 53 15 132 111 117 106 122 87 144 45 40 56 46 58 60 45 67 65 and over 16 27 16 30 21 21 18 Death rates All ages 42.2 35.2 43.1 34.3 44.5 33.4 47.1 0 1.75 1.50 1.77 1.48 1.87 1.57 1.88 1 38.4 48.9 43.1 48.2 35.3 44.8 59.4 5 13.1 16.5 15.4 11.6 14.8 13.0 15.4 15 14.5 11.8 12.9 11.4 13.6 9.42 16.0 45 8.00 9.76 9.05 10.0 11.6 7.69 12.8	Age 1952 1953 1954 1955 M F M F M F M F M F M F M F M F M F M F M F M F M F M F M F M F M F M F Death rates P B Death rates P M All ages . 42.2 33.4 47.1 33.4 47.1 1.57 1.48 1.57 1.88 1.33 1- 	Age M F M F M F M F M F M F M F M All ages 890 804 913 786 948 767 1,007 756 1,017 0 604 491 623 491 647 514 645 430 677 1 56 68 60 64 48 58 80 76 58 5 42 51 51 37 50 42 53 55 60 15 132 111 117 106 122 87 144 115 132 45 40 56 46 58 60 45 67 58 65 65 and over 16 27 16 30 21 21 18 22 25 Death rates per million live All ages 42.2 35.2 43.1 34.3 44.5 33.4 47.1 32.8 47.3 0 1.75 1.50 1.77 1.48 1.87 1.57 1.88 1.33 1.88 1 38.4 48.9 43.1 48.2 35.3 44.8 59.4 59.2 43.3 5 13.1 16.5 15.4 11.6 14.8 13.0 15.4 16.7 17.1 15 14.5 11.8 12.9 11.4 13.6 9.42 16.0 12.5 14.8 45 8.00 9.76 9.05 10.0 11.6 7.69 12.8 9.81 12.2	Age 1952	Age	Age 1952	Age 1952	Age	Age M F	Age 1952	All ages 890 804 913 786 948 767 1,007 756 1,017 791 1,126 911 1,124 870 1,102 921 1,161 0 604 491 623 491 647 514 645 430 677 506 725 553 726 528 724 584 747 1 56 68 60 64 48 58 80 76 58 59 71 60 87 71 76 66 83 5 42 51 51 37 50 42 53 55 60 49 68 55 52 53 79 67 86 15 132 111 117 106 122 87 144 115 132 102 140 115 148 117 132 105 130 45 40 56 46 58 60 45 67 58 65 53 94 95 86 79 69 68 85 65 and over

^{*} At ages under 1 year, per thousand live birth occurrences.

Table LXXXVII. Bronchitis (ICD Nos. 500–502): Infant mortality rates per 1,000 live births, death rates per million living at ages over one year and Standardised Mortality Ratios (1950–52 = 100), 1949 to 1960, England and Wales

						Mal	es				
	Infant mor- tality rate	1-	5-	15-	25-	35-	45-	55-	65-	75 and over	S.M.R (All ages)
1949	0.74	29	4.4	10	16	78	492	1,962	4,270	9,534	92
1950	0.79	41	8.0	4.6	13	72	474	1,921	4,296	9,375	91
1951	0.74	46	5.5-	5.1	14	93	616	2,479	5,619	12,392	118
1952	0.64	49	8.4	2.6	14	67	476	1,939	4,392	9,163	91
1953	0.70	42	5.7	5.5	11	73	486	2,036	5,007	10,062	99
1954	0.58	43	7.1	5.9	11	67	425	1,780	4,347	8,583	86
1955	0.65	48	5.8	9.5	11	73	475	1,997	4,868	9,531	96
1956	0.54	58	5.4	5.5	11	57	437	2,072	5,040	9,754	98
1957	0.45	39	4.8	4.0	11	65	431	2,034	4,683	8,503	92
1958	0.54	40	7.3	9.3	10	69	434	2,044	5,181	9,506	98
1959	0.57	40	6.2	5.2	12	53	411	1,958	5,126	9,624	96
1960	0.52	44	5.6	4.7	12	58	346	1,823	4,662	9,161	89
						Fema	les				121
1949	0.58	28	5.3	7.2	11	36	132	473	1,779	6,673	104
1950	0.57	34	4.5	6.9	10	35	107	431	1,582	6,197	95
1951	0.60	41	4.8	6.3	13	41	142	608	2,102	8,019	124
1952	0.47	37	5.2	8.5	11	29	94	369	1,375	5,241	81
1953	0.55	45	5.0	5.7	13	35	98	433	1,501	5,875	91
1954	0.41	30	6.8	5.3	8.2	24	95	330	1,133	4,358	68
1955	0.41	25	3.6	4.6	11	29	94	366	1,321	4,768	76
1956	0.35	31	4.5	4.0	10	34	89	384	1,293	4,889	77
1957	0.35	34	6.5	5.0	12	30	93	330	1,104	3,547	61
1958	0.40	32	5.3	6.4	11	31	103	390	1,168	4,067	68
1959	0.47	32	3.5	4.5	8.2	30	92	359	1,161	3,883	65
1960	0.40	28	3.3	2.4	7.2	23	85	288	916	3,277	54

Table LXXXVIII. Bronchitis: Death rates per million living, by sex, at ages 15-44, 45-64, and 65 and over, and Standardised Mortality Ratios, in standard regions and urban and rural aggregates within regional groups, 1960, England and Wales

El September A	15-	-	45-	-	65 and	over	S.M.R. (Persons
28 day -56 -51 -0 8A	M	F	М	F	M	F	all ages)
ENGLAND AND WALES	25	11	989	179	6,138	1,812	100
Urban and rural aggregates: Conurbations	28	14	1,160	202	7,702	2,360	123
Areas outside conurbations: Urban areas with populations of 100,000 and over	33	11	1,097	187	7,321	1,709	111
under 100,000	31 24 15	10 8 9	970 951 646	160 181 - 133	5,926 5,424 4,004	1,751 1,471 1,313	95 89 69
NORTH OF ENGLAND	35	16	1,336	268	7,166	2,299	127
Northern	28 41 36	12 15 19	1,277 1,254 1,416	229 236 305	6,083 7,447 7,531	1,882 2,138 2,578	113 125 135
Conurbations	42 30 35 57 34	21 29 6 23 31	1,524 1,548 1,273 1,582 1,750	294 292 198 364 294	8,267 8,306 7,474 8,843 8,269	2,702 2,547 2,185 2,954 3,056	144 148 120 155 156
Areas outside conurbations: Urban areas with populations of 100,000 and	42	17	1,467	259	8,735	2,184	142
Over	53 20 20	23 5 11	1,220 1,206 836	283 247 201	6,364 6,312 4,379	2,394 1,920 1,505	120 112 83
WALES AND MIDLANDS	30	12	1,037	191	6,506	1,865	108
Regions: Wales	39 25 30	10 17 9	1,110 903 1,099	185 168 212	6,885 5,545 7,083	1,438 1,773 2,195	109 96 117
Conurbation: West Midlands	38	10	1,351	224	8,708	2,629	141
Urban areas with populations of 100,000 and over Urban areas with populations of 50,000 and	42	15	1,081	214	7,775	1,890	121
under 100,000	30 28 20	15 13 9	1,122 1,051 722	141 199 148	6,710 6,454 4,387	1,806 1,661 1,497	113 105 78
SOUTH AND EAST OF ENGLAND (excluding Greater London)	17	5	655	106	4,412	1,196	67
London and South Eastern (excluding Greater London)	22 17 18 12	9 4 5 3	676 763 668 546	123 102 87 114	4,358 4,541 4,512 4,269	1,239 1,224 1,110 1,220	66 72 66 66
Urban areas with populations of 100,000 and over	17	2	807	106	5,898	1,259	81
Urban areas with populations of 50,000 and under 100,000	18 25 10	- 6 7	736 694 513	88 124 94	5,367 4,223 3,634	1,412 1,129 1,144	76 65 59
GREATER LONDON	14	10	833	127	7,009	2,047	102

Table LXXXIX. Accidents and violence: Proportion of deaths attributed to violent causes per 100 deaths from all causes, by sex and age, 1901 to 1960, England and Wales

		(5) E (1) (5)		Males					Females		
	3	All ages	0-	15-	35-	65 and over	All ages	0-	15-	35-	65 and over
1901–10 1911–20 1921–30 1931–35 1936–40 1941–45 1946–50	::	5·05 5·69 5·48 6·05 7·30 9·13 4·81	3·22 3·74 4·43 5·60 7·30 10·34 8·50	12·88 15·69 15·49 20·29 29·58 46·29 26·26	7·22 7·16 7·06 7·37 8·67 9·46 6·01	2·31 2·29 2·37 2·55 2·89 2·85 2·07	2·31 2·31 2·49 3·04 4·10 4·56 2·91	2·85 2·95 3·06 4·11 5·73 8·25 6·53	3·06 2·97 4·02 5·54 9·52 12·26 5·86	2·18 2·26 2·74 3·31 4·82 5·58 3·50	1·54 1·63 1·79 2·25 2·83 2·74 2·16
1951	::::::	4·42 4·65 4·75 4·86 4·84	10·22 10·28 9·63 9·49 10·44	34·74 37·65 38·86 39·22 43·29	5.68 5.97 6.18 6.33 6.21	1.85 1.91 2.13 2.35 2.24	2·73 2·84 3·09 3·40 3·39	7·36 7·67 7·43 7·00 7·91	8·21 9·46 10·10 12·20 12·81	3·42 3·58 4·01 4·14 4·35	2·06 2·11 2·35 2·75 2·68
1956 1957 1958 1959 1960		4·85 4·83 4·93 4·99 5·02	9·90 9·30 10·07 10·02 9·76	43·90 43·18 48·19 49·98 52·42	6·36 6·24 6·53 6·22 6·41	2·32 2·28 2·22 2·33 2·16	3·50 3·50 3·56 3·64 3·74	7·70 7·13 7·26 7·38 7·03	13·78 13·97 16·44 18·41 21·74	4·71 4·62 4·75 4·96 5·39	2·76 2·77 2·82 2·84 2·85

Table XC. Accidents and violence: Death rates per million living, by sex and age, 1901 to 1960, England and Wales

THE CHARLE	All ages	0-	5-	10-	15-	20-	25-	35-	45-	55-	65-	75 and over
					Ma	iles					el Midie	nord Sing
1901–10 1911–20 1921–30 1931–40 1941–50	827 857 709 843 778	1,231 934 683 735 726	329 395 375 394 459	262 304 243 261 319	447 596 449 561 571	555 902 584 773 648	677 828 536 658 582	914 894 658 716 613	1,257 1,082 917 977 781	1,623 1,395 1,259 1,375 1,075	1,818 1,715 1,616 1,724 1,413	2,621 2,757 2,842 3,638 2,832
1951 1952 1953 1954	591 568 582 593 605	487 473 418 393 386	259 217 215 168 207	190 167 151 161 181	362 415 373 369 444	608 643 603 580 671	474 445 446 426 446	429 436 429 445 444	591 546 583 583 567	814 796 822 846 823	1,137 1,092 1,198 1,256 1,243	2,745 2,450 2,811 3,214 3,166
1956 1957 1958 1959	604 594 614 615 612	392 351 361 352 334	173 168 196 185 210	151 156 163 164 160	410 456 481 574 576	608 644 636 704 767	442 421 469 448 460	428 456 483 442 458	578 566 584 560 593	874 845 854 833 820	1,259 1,197 1,130 1,261 1,067	3,320 3,126 3,268 3,183 3,057
The library			200		Fem	ales	Dela(000	2001 345	grajintes	ang ritang	enesa zu-	913 . gg
1901–10 1911–20 1921–30 1931–40 1941–50	329 300 283 412 407	1,059 767 487 537 546	226 234 182 215 231	81 98 71 108 135	103 117 117 183 169	111 120 127 192 179	135 127 126 199 187	198 179 168 239 221	307 272 268 355 313	423 382 397 523 446	752 728 716 1,005 791	2,287 2,364 2,516 3,399 2,808
1951	321 298 329 358 370	350 330 319 264 300	96 100 94 86 94	45 50 62 48 59	88 77 73 81 94	87 86 86 90 85	85 85 88 107 96	126 120 139 138 143	228 213 232 239 241	327 322 349 357 377	648 604 670 783 775	2,803 2,406 2,727 3,066 3,128
1956 1957 1958 1959 1960	383 374 390 399 406	284 279 255 259 224	87 83 86 82 95	52 45 52 67 65	76 79 91 101 117	91 98 115 130 131	101 103 103 113 122	140 145 148 156 170	260 258 271 253 282	412 396 380 416 429	764 762 792 784 776	3,242 2,991 3,166 3,163 3,083

Table XCI. Motor vehicle accidents: Death rates per million living, by sex and age, and Standardised Mortality Ratios by sex, 1931 to 1960, England and Wales

		All ages	0-	10-	15-	20-	25-	35-	45-	55-	65-	75 and over	S.M.R.† (1950–52 = 100)
[基本	1				of the East	100	M	ales	The state of the s				
1931–35		208	184	93	204	368	210	133	153	206	363	678	143
1936–40		216	159	86	176	363	209	152	171	257	411	749	146
1941–45		199	198	113	152	227	193	149	160	228	353	556	130
1946		153	144	109	161	205	139	109	102	160	241	498	99
1947		146	134	75	127	209	139	106	111	147	246	460	95
1948		126	135	63	122	173	112	79	97	142	194	400	82
1949		140	123	80	147	226	117	103	101	137	229	451	91
1950		151	104	60	177	279	164	106	102	153	242	439	98
1951		161	112	88	178	308	174	112	117	160	231	505	105
1952		149	105	73	165	301	150	123	105	144	219	403	97
1953		158	98	61	170	307	164	110	126	160	245	518	103
1954	::	161	77	57	194	323	165	116	127	170	259	564	105
1955		171	83	64	234	388	170	125	130	164	273	540	111
1956		174	86	61	236	344	182	121	138	185	270	587	113
1957		170	74	58	254	378	164	130	125	166	263	604	111
1958*		186	81	68	305	386	175	140	142	191	271	638	121
1959*		202	77	67	384	476	180	137	147	207	319	626	131
1960*		215	83	63	411	476	200	151	173	221	301	678	140
1-1-19- 10-11-19-			44.53				Fer	males					
1931–35		68	106	34	49	50	31	29	49	95	181	267	169
1936–40		64	84	30	49	48	29	27	45	85	173	279	158
1941–45		56	106	42	42	40	29	26	37	61	107	172	128
1946		47	72	30	36	27	21	20	27	56	100	185	105
1947		47	71	26	37	23	17	22	33	54	100	177	104
1948		43	79	31	25	16	14	19	21	49	101	157	96
1949		41	65	32	32	30	10	16	22	44	95	151	91
1950	1.	46	64	25	40	30	17	19	35	48	84	200	101
1951		49	58	22	47	37	19	23	35	54	101	198	107
1952		42	52	21	34	31	19	18	28	43	94	168	92
1953		45	56	25	36	37	16	18	33	49	87	181	97
1954 1955 1956 1957		51 55 56 53	45 52 47 42	15 26 22 22	36 58 42 42	37 45 40 46	23 22 26 24	23 26 26 26 22	32 32 38 37	63 57 63 59	120 121 129 117	218 235 236 222	109 117 119 111
1958*	: :	60	43	23	50	49	29	23	43	65	144	254	126
1959*		69	48	25	60	67	32	28	48	81	146	289	143
1960*		80	46	34	78	62	36	38	61	101	173	306	165

^{*} According to the Seventh Revision of the International Classification (Nos. E810–E835). Other years according to the classification in use at the time.

[†]S.M.R.s are based on civilian deaths and civilian populations for the years 1940–1949 inclusive.

Table XCII. Motor vehicle accidents: Deaths by sex according to nature of injury and external cause, 1960, England and Wales

					E	xternal cause	of injury a	nd ICD No.				Ist
		8		38-	MOTOR V	EHICLE T	RAFFIC A	CCIDENTS				183
200	Nature of injury (Intermediate List	Total deaths in motor vehicle accidents E810–E835	E812	to pedal cyclist	passenger of motorcycle	to rider or passenger of motorcycle in collision with other motor vehicle	Other motor vehicle traffic accident involving two or more motor vehicles	to rider of motorcycle without antecedent collision	E822 involving overturning in roadway	E823 involving running off roadway	Other non-collision motor vehicle traffic accident	Remainde of E810–E83
	Total $\left\{ egin{array}{lll} M \\ F \end{array} \right.$	4,754 1,889	1,488 1,174	477 91	65 8	1,054	659 276	410 44	42 13	349 97	58 31	152 56
AN 139 AN 140 AN 141 AN 142 AN 143 AN 144 AN 145 AN 146 AN 147	Fracture of limbs Dislocation without fracture	2,334 827 502 298 231 127 14 4 — 566 229 753 241 98 36 11 7 1 — 10 — 1	691 508 235 213 118 94 4 1 ————————————————————————————————	276 54 41 8 18 18 1369 16 44 66 7 3 2	42 5 3 1 2 - - - 8 2 5 - 1 - - - 1	574 61 67 7 43 4 136 5 161 16 27 3	233 95 71 40 26 11 1 2 —————————————————————————————	272 35 22 1 - 2 - - - - 49 1 51 4 7 - - - - - - - - - - - - - - - - - -	16 5 6 2 - - - - - - - - - - - - - - - - - -	134 30 41 18 12 4 3 — — — — — — — — — — — — —	36 15 2 1 2 5 - 1 - 7 67 7 1 1 1 - 1 - 2 2 2 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	60 19 14 6 9 8 1 - - - 16 8 37 11 3 1 - 1 - - 1 - - 1 - - 1 - 1 - - - -

Table XCIII. Deaths of pedestrians, pedal cyclists, motorcyclists, motor vehicle occupants, and others in motor vehicle traffic accidents, motor vehicle non-traffic accidents, and other road vehicle accidents, by sex, 1941 to 1960, England and Wales

1941- (ann		1946	10	1050													
avela		(ann	ual	1950 (ann avera	ual	195	5	195	6	195	7	195	8	195	59	196	50
M	F	M	F	M	F	М	F	М	F	М	F	M	F	M	F	M	F
T K	188	8-1-	13	1556	92	pag											
2 0 7 2	000	1 205	700	1,185	719	1,210	813	1,275	844	1,219	753	1,323	900	1,299	979	1,488	1,174
2,073				43	8	52	9	47	9	40	6	37	4	39	4	36	6 25
165	70	79	47	63	36	43	31	45	29	38	22	25	33	17	26	20	23
			0-[462	77	437	84	458	67	428	68	446	56	524	90	477	91
557	140	464		200	20	1	_	1	-	2	_			1		2	<u>-</u>
230	51	159	29	138	27	131	19	101	9	126	21	119	17	81	21	00	14
		4=0	10	1,018	83	1,179	89	1,132	88	1,179	96	1,251	104	1,430	132	1,529	151
651	27	659	48 {	8	-	18	-	5	_	5	-	7	-	9	1	10	-
- B B				519	175	726	270	790	285	782	302	946	340	1,092	406	1,182	465
762 47	167	26	155	64 27	2 11	33 17	2 6	31 11	4 5	18 6	- 7	24 8	1 16	20 14	7	30 6	2 7
	2,073 165 557 230 651	2,073 898 165 70 557 140 230 51 651 27	2,073 898 1,295 165 70 79 557 140 464 230 51 159 651 27 659	2,073 898 1,295 706 { 165 70 79 47 557 140 464 86 { 230 51 159 29} 651 27 659 48 { 762 167 549 155 {	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$								

Table XCIV. Suicide: Death rates per million living, by sex and age, in standard regions, conurbations, and urban and rural aggregates outside the conurbations, 1956–60, England and Wales

图 种 图 第一 图图			Male	es		40	F	emal	es	
1 25 E 25 E	All ages over 15	15-	25-	45-	65 and over	All ages over 15	15-	25-	45-	65 and over
ENGLAND AND WALES	190	46	120	262	406	114	22	66	170	182
Urban and rural aggregates:										10
Conurbations	206	63	133	274	440	127	28	78	185	208
Areas outside conurbations:	200	6	9	1 3						
Urban areas with populations of 100,000 and over Urban areas with populations	194	35	114	255	491	124	26	70	183	207
of 50,000 and under 100,000	210	53	141	276	450	138	14	84	199	225
Urban areas with populations under 50,000 Rural districts	185 161	43	112 99	255 246	373 326	107 80	17 19	53 49	167 123	167 114
Regional summary:										
Northern East and West Ridings North Western North Midland Midland Eastern London and South Eastern Southern South Western Wales (including Monmouthshire)	191 205 214 175 189 169 198 157 194	45 55 63 38 35 37 62 42 27	118 133 131 100 109 115 131 107 125	275 271 287 256 262 237 265 215 267	413 437 462 377 502 333 389 351 418	88 116 129 105 111 108 129 104 111	13 32 23 13 17 21 30 20 15	59 54 66 65 55 63 86 65 62	134 171 188 149 181 164 185 161 169	138 207 231 192 194 161 186 144 162
Conurbations: Tyneside West Yorkshire South East Lancashire Merseyside West Midlands Greater London	224 219 237 153 191 204	49 68 79 31 38 72	137 128 152 109 114 138	304 295 314 221 255 268	533 455 483 314 524 411	112 127 129 96 119 135	17 31 22 16 21 34	69 61 68 62 62 91	156 177 190 141 188 193	224 225 220 175 220 201

Table XCV. Suicide: Death rates per million living, by sex and age, and Standardised Mortality Ratios by sex, 1901 to 1960, England Wales

		All ages	0-	10-	15–	20-	25-	35-	45-	55-	65–	75 and over	S.M.R.* (1950–52 = 100)
1980 -27 1980					rea : -	M	ales						
1901-10 1911-20 1921-30 1931-35 1936-40 1941-45		157 130 166 196 172 126		4 3 2 2 2 2 3	36 32 31 40 32 43	91 69 78 96 89 72	152 122 111 140 118 100	252 196 211 210 177 128	397 278 346 379 284 185	523 389 487 542 462 271	508 405 513 533 477 347	382 350 438 483 466 382	170 138 149 163 113 93
1946 1947 1948 1949 1950		138 136 144 144 136		5 3 2 1 1	31 35 29 32 30	49 59 74 60 60	94 94 86 80 70	154 123 134 134 122	200 209 219 236 222	300 314 338 334 323	391 382 469 422 416	465 480 388 490 421	103 100 108 109 102
1951 1952 1953 1954 1955	::	135 132 142 149 143		6 1 1 3 4	24 34 28 26 26	53 55 67 59 54	78 78 89 93 97	120 120 126 145 130	213 198 222 235 213	303 320 325 340 322	410 389 411 430 422	477 413 480 439 463	100 98 106 110 105
1956 1957 1958 1959 1960	14 . 16 24 . 15 24 . 15	149 146 146 142 139		2 2 2 2 2 2 2	25 27 28 29 30	65 60 64 54 86	94 94 104 105 115	130 135 147 135 139	221 217 219 206 200	350 344 329 316 308	426 404 366 417 329	490 475 457 406 384	109 107 106 104 101

Females

1901–10 1911–20 1921–30 1931–35 1936–40 1941–45	:::::::::::::::::::::::::::::::::::::::	49 47 63 80 79 62	3 2 1 0 1 1	34 30 25 23 14 9	45 41 43 49 38 22	56 50 57 77 65 52	81 74 87 108 99 77	109 100 135 154 155 108	108 102 143 166 169 128	88 81 108 134 142 117	49 52 63 84 89 73	103 92 110 129 122 91
1946 1947 1948 1949 1950	:::::::::::::::::::::::::::::::::::::::	74 76 78 75 70	1 - - 1 1	15 10 11 15 10	26 28 20 26 23	53 51 50 45 34	87 80 80 77 75	135 134 141 127 124	157 160 183 165 157	146 166 173 165 153	92 114 98 138 115	108 110 113 109 101
1951 1952 1953 1954 1955		72 68 76 81 84	 $-\frac{1}{3}$ $-\frac{1}{1}$	9 11 10 12 7	20 12 22 23 19	38 35 39 52 45	66 66 79 77 75	135 118 127 135 148	160 154 167 167 190	167 164 171 198 201	105 97 127 130 126	103 97 108 115 119
1956 1957 1958 1959 1960		90 92 91 89 87	1 1 - 1 2	11 12 13 14 15	27 30 33 33 38	49 47 50 50 56	71 80 83 88 86	156 145 151 140 147	203 214 190 200 180	217 230 208 195 186	141 136 162 137 119	126 129 127 124 121

^{*} S.M.R.s are based on civilian deaths and civilian populations for the years 1940–1949 inclusive.

Table XCVI. Suicide: Proportions per 1,000 deaths according to external agent, by sex and age, 1956-60, England and Wales

									-	-		
			Males			Females						
	All ages 15 and over	15-	35-	55-	75 and over	All ages 15 and over	15-	35-	55-	75 and over		
Domestic gas poisoning	447	471	445	431	490	555	593	527	563	585		
Other poisoning	148	148	190	128	76	234	204	265	222	208		
Hanging or strangulation	156	147	146	167	158	59	40	61	61	63		
Drowning	82	45	63	103	117	96	66	92	108	87		
Firearms or explosives	62	83	59	60	46	5	14	5	2	2		
Cutting and piercing instruments	40	20	30	49	68	13	10	12	13	14		
Jumping from high place	21	22	20	22	24	21	28	16	22	37		
Other agents	44	64	47	40	21	17	45	22	9	4		
Total	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
Total number of suicides	15,701	2,188	5,488	6,532	1,493	10,490	1,072	3,732	4,846	840		

Table XCVII. Accidents in the home and residential institutions: Deaths and death rates per million living, by sex and age, 1960, England and Wales

	3919	Accident espect to a		All accidents in the home and residential institutions (E870–E936)		Poisoning by utility (illuminating) gas (E890)		Burns and scalds (E916, E917)		Fall on stairs, from ladders, and from one level to another (E900-E902)		Fall on same level (E903)		Unspecified falls (E904)		Other accidents in the home and residential institutions (rem. E870–E936)	
			1915)	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females
	All ages	·	Deaths Rate	2,478 112	4,552 192	391 18	526 22	221 10	432 18	488	709 30	443 20	1,479 62	268 12	839 35	667 30	567 24
	0-4		Deaths Rate	346 190	244 141	6 3·3	1.2	42 23	49 28	21 12	6.4	1.6	0.6	1.6	0.6	271 149	180 104
	5–14	0	Deaths Rate	57 16	60 18	1.1	10 3·0	5 1·4	36 11	5 1.4	5 1.5	0.3	=	二	0.6	42 12	2.1
	15–44		Deaths Rate	249 28	155 17	68 7·6	30 3·3	20 2·2	42 4·6	35 3·9	1.0	0.2	0.2	0.2	0.3	122 14	69 7·6
176	45-64	Felt from the	Deaths Rate	434 77	493 80	96 17	98 16	33 5·9	74 12	106 19	73 12	32 5·7	46 7·5	11 2·0	35 5·7	156 28	167 27
	65–74		Deaths Rate	331 234	690 331	70 50	102 49	28 20	72 35	91 64	137 66	59 42	193 93	43 30	108 52	40 28	78 37
	75 and ove	er	Deaths Rate	1,061 1,538	2,910 2,286	147 213	284 223	93 135	159 125	230 333	474 372	346 501	1,237 972	209 303	690 542	36 52	66 52

Table XCVIII. Accidents in the home and residential institutions: Deaths by month of occurrence, 1952-57, and 1958 to 1960, England and Wales

ICD No.	Cause of death							PERS	ONS					
	ouds of double		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
E870-E888	Poisoning	1952–57 1958 1959 1960	104 18 27 33	96 19 12 30	110 25 21 35	100 24 29 31	98 11 25 30	82 23 25 32	88 21 17 20	97 10 20 24	86 15 19 24	112 21 23 25	83 21 20 24	90 27 111 34
E890-E895	Gas poisoning	1952–57 1958 1959 1960	529 116 161 137	566 61 127 108	395 105 101 89	301 80 68 54	231 46 49 62	188 59 40 34	166 38 31 43	164 41 45 40	200 43 41 57	296 64 46 78	447 94 91 100	463 140 97 172
E900	Fall on stairs	1952–57 1958 1959 1960	556 123 96 90	476 78 98 66	451 93 73 63	363 71 52 66	342 62 49 53	287 53 49 57	316 48 57 60	346 56 57 49	344 60 65 66	395 54 59 56	449 61 77 76	566 8. 8. 12.
E901	Fall from ladders	1952–57 1958 1959 1960	16 5 3 3	14 1 4 3	25 2 2 2 2	18 5 3 4	27 2 5 1	24 3 3 3	25 2 1 3	20 2 7 2	28 6 7 5	27 2 5 9	20 5 6 3	2
E902	Other falls from one level to another	1952–57 1958 1959 1960	235 31 37 35	203 22 49 35	208 38 45 29	196 37 53 38	198 24 45 26	182 24 25 29	198 33 25 27	160 29 36 24	171 36 29 21	195 31 32 18	169 28 35 22	18 3 2 3
E903	Fall on same level	1952–57 1958 1959 1960	688 148 172 154	706 131 211 203	670 144 175 223	527 134 132 138	531 123 130 151	532 103 121 132	509 111 131 152	540 119 119 136	538 122 106 153	591 131 134 169	578 135 132 156	65 16 16 17
E904	Unspecified falls	1952–57 1958 1959 1960	929 172 144 124	851 140 148 111	922 158 146 93	747 128 95 95	705 161 103 94	601 136 90 77	612 85 79 76	545 96 80 72	613 67 73 78	675 79 90 96	704 104 94 78	85 14 11 11
E914	Accident caused by electric current	1952–57 1958 1959 1960	22 9 4	15 6 3 2	25 4 2 4	19 4 3 3	14 2 10 3	19 5 4 5	19 4 3 4	30 4 6 2	21 4 8 3	24 3 3 5	31 4 2 4	2
E916	Accident caused by fire and explosion of combustible material	1952–57 1958 1959 1960	500 86 122 81	549 71 111 89	398 96 69 84	307 61 42 50	177 33 44 34	172 29 33 30	143 25 22 15	123 14 23 14	126 15 17 24	220 29 28 31	282 33 49 48	42 8 6 9

(85740)	E917	Accident caused by hot substance, corrosive liquid, and steam	1952–57 1958 1959 1960	70 24 11 7	67 11 14 10	64 19 7 7	58 10 5 8	45 8 11 7	56 9 8 6	35 2 6 1	30 7 4 3	31 5 4 2	48 5 7 3	60 9 6 6	45 11 14 10
	E921	Inhalation and ingestion of food causing obstruction or suffocation	1952–57 1958 1959 1960	226 37 31 34	192 25 34 34	235 38 31 22	187 36 33 28	149 32 15 33	123 16 21 17	128 18 18 29	96 17 19 26	132 22 14 32	173 32 17 21	153 27 34 25	214 29 41 42
	E924	Accidental mechanical suffocation in bed and cradle	1952–57 1958 1959 1960	138 18 18 17	109 20 13 11	115 25 11 11	97 15 8 7	101 10 10 15	96 10 11 10	87 8 6 10	92 11 8 12	78 8 13 4	97 13 10 8	106 25 9 10	121 15 19 15
	E929	Drowning and submersion	1952–57 1958 1959 1960	16 5 5 5	19 5 6 3	28 8 5 7	38 10 3 5	35 9 3 5	52 6 5 8	28 2 6 5	33 3 7 8	35 6 6 5	29 6 3 2	27 5 6 5	21 2 2 7
	Rem. E870– E936	All other accidents	1952–57 1958 1959 1960	169 22 21 19	257 31 24 22	129 19 19 20	130 21 15 29	121 17 17 26	107 26 28 27	102 20 20 25	114 14 28 23	95 17 17 30	87 24 19 28	81 19 12 21	84 27 35 20
177	E870-E936	All accidents in the home and residential institutions	1952–57 1958 1959 1960	4,198 814 852 739	4,120 621 854 727	3,775 774 707 689	3,088 636 541 556	2,774 540 516 540	2,521 502 463 467	2,456 417 422 470	2,390 423 459 435	2,498 426 419 504	2,969 494 476 549	3,190 570 573 578	3,762 771 680 844

Table XCIX. Accidents in the home and residential institutions: Deaths by cause and sex at age 65 and over, 1960, England and Wales

ICD No.	Cause of death	1000000	Home	20 20	Resid	ential inst	itutions
TED No.	Cause of death	Males	Females	Persons	Males	Females	Person
E870-E888	Accidental poisoning by solid and liquid substances	18	48	66			_
E871	Accidental poisoning by barbituric acid and derivatives	12	36	48			
E883	Accidental poisoning by corrosive aromatics, acids, and caustic alkalis	1	1	2	_	_	_
Rem. E870- E888	Accidental poisoning by other solid and liquid substances	5	11	16	_	_	_
E890-E895	Accidental poisoning by gases and vapours	220	398	618	1		1
E890	Accidental poisoning by utility (illuminating) gas	216	386	602	1	_	1
Rem. E890- E895	Accidental poisoning by other gases and vapours	4	12	16	-	-	_
E900-E904	Accidental falls	791	2,216	3,007	187	623	810
E900	Fall on stairs	220	412	632	14	14	28
E901	Fall from ladders	12	9	21	_	_	_
E902	Other falls from one level to another	49	110	159	26	66	92
E903	Fall on same level	296	1,003	1,299	109	427	536
E904	Unspecified falls	214	682	896	38	116	154
E910-E936	Other accidents	142	282	424	33	33	66
E916	Accident caused by fire and explosion of combustible material	95	208	303	11	2	13
	Accident caused by hot substance, corrosive liquid, and steam	14	19	33	1	2	3
921	Inhalation and ingestion of food causing obstruction or suffocation	2	11	13	14	21	35
929	Accidental drowning and submersion	8	8	16	1	_	1
tem. E910– E936	Remainder of other accidents	23	36	59	6	8	14
870-E936	All accidents in the home and residential institutions	1,171	2,944	4,115	221	656	877

Table C. Accidents in the home and residential institutions: Deaths by cause, sex, and age, 1960, England and Wales

ICD No.	Cause of death	All ages	0-	5-	15-	45-	65-	75 and over
E870-E888	Accidental poisoning by solid and $\left\{ \begin{matrix} M \\ F \end{matrix} \right\}$	139 191	10 13	-1	32 34	79 95	14 33	4 15
E871	Accidental poisoning by barbituric M acid and derivatives F	88 141	1 1	=	16 29	59 75	10 26	10
E872	Accidental poisoning by aspirin and M salicylates M	15 24	5 6	-1	2 2	7 6	1 4	_ ₅
E890-E895	Accidental poisoning by gases and $\left\{ \begin{matrix} M \\ F \end{matrix} \right\}$	412 547	7 2	4 10	79 35	101 102	74 110	147 288
E900	Fall on stairs $\left\{ egin{array}{cccccccccccccccccccccccccccccccccccc$	324 493	4 4	-1	18 7	68 55	61 102	173 324
E901	Fall from ladders $\begin{Bmatrix} M \\ F \end{Bmatrix}$	29 10	=	\equiv	_4	13	4 5	8 4
E902	Other falls from one level to another ${M \choose F}$	135 206	17 7	5 4	13 2	25 17	26 30	49 146
Е903	Fall on same level $\begin{Bmatrix} M \\ F \end{Bmatrix}$	443 1,479	3 1	_1	2 2	32 46	59 193	346 1,237
E904	Unspecified falls $\left\{ egin{array}{lll} M \\ F \end{array} \right.$	268 839	3 1	_2	2 3	11 35	43 108	209 690
Е914	Accident caused by electric current ${M \choose F}$	21 19	_2	_1	7 8	9 6	2 2	_3
Е916	Accident caused by fire and explosion of combustible material M	189 394	30 41	4 36	18 42	31 65	24 63	82 147
	Burns by clothing $\dots \ \left\{ egin{array}{ll} M \\ F \end{array} \right.$	41 234	2 21	2 25	3 26	10 42	6 32	18 88
	from domestic fire (open) $\dots {M \atop F}$	11 81	1 7	2 10	1 10	15	2 11	5 28
	gas fire, stove, etc $\left\{ {\stackrel{M}{F}} \right.$	1 24	_1	- ₃	_ ₆		_ ₄	_ ₉
	electric fire $\dots \ \left\{ egin{array}{cccccccccccccccccccccccccccccccccccc$	3 45		_2	_2	1 5	7	2 27
	other specified $\dots \left\{ egin{matrix} M \\ F \end{array} \right.$	21 43	7	_ ₆	1 6	9 8	4 6	7 10
	not specified $\dots \ \dots \ \left\{ egin{smallmatrix} M \\ F \end{array} \right.$	5 41		-4	1 2	12	_ ₄	4 14
	Burns by falling into fire ${M \choose F}$	36 44	2	=	=	7 9	5 9	22 25
	Burns by conflagration ${M \choose F}$	52 48	16 6	2 5	7 7	6 7	7 9	14 14
	Burns by other specified means ${M \choose F}$	54 63	9 13		8 7	7 7	5 12	25 19
	Burns by means not specified \ldots $\left\{ egin{matrix} M \\ F \end{array} \right.$	6 5	_1	-1		_1	1 1	3 1
Е917	Accident caused by hot substance, {M corrosive liquid, and steam {F	32 38	12 8	_1	_2	2 9	4 9	11 12
E921	Inhalation and ingestion of food {M causing obstruction or suffocation {F	179 163	108 84	6 2	20 9	29 36	6 16	10 16
Е924	Accidental mechanical suffocation in $\left\{ egin{array}{llllll} M \\ \text{bed or cradle} & \dots & \dots \end{array} \right.$	76 53	75 52	=	1 1	=	=	=
E929	Accidental drowning and submersion ${M \choose F}$	36 29	18	_2	2 6	5 14	4 3	5 5
Rem. E870-E936	Other accidents $\dots \ \left\{ egin{array}{lll} M \\ F \end{array} \right.$	195 91	57 30	33 4	49	29 12	10 16	17 23
E870-E936	All accidents in the home and residential $\{M\}$ institutions $\{M\}$	2,478 4,552	346 244	57 60			331 690	1,061 2,910

Table CI. Accidental falls: Death rates per million living, by sex and age, and Standardised Mortality Ratios by sex, 1901 to 1960, England and Wales

			All ages	0-	10-	15-	20-	25-	35-	45-	55-	65-	75 and over	S.M.R (1950-5 = 100
					4	101	Male	s	Billion	es ga	10000	Literate Lie Gibe;		A A
1901–10 1911–20 1921–30 1931–35 1936–40 1941–45		::	84 107 85 93 120 109	45 38 25 25 31 35	25 30 18 18 24 26	23 39 31 31 34 40	24 36 31 33 40 30	39 56 37 37 51 41	69 93 56 47 58 58	119 155 93 79 95 87	209 254 161 146 177 157	420 454 352 338 414 337	1,253 1,373 1,306 1,609 1,910 1,448	169 213 146 146 178 156
1946 1947 1948 1949			86 97 80 78	27 31 27 20	21 26 22 18	25 33 22 28	26 42 27 31	30 36 37 33	43 50 41 38	57 68 49 57	107 108 85 68	245 254 211 185	1,203 1,352 1,122 1,162	115 126 104 100
1950 1951 1952 1953		:::::::::::::::::::::::::::::::::::::::	74 86 79 84	14 17 16 14	18 17 17 10	19 17 23 22	25 34 30 29	29 35 30 30	34 40 30 33	50 51 47 52	71 85 78 80	183 241 221 246	1,139 1,275 1,169 1,254	93 108 99 104
1954 1955 1956 1957		::	99 94 99 92	11 14 9 15	9 16 15 13	20 13 16 20	23 25 31 21	27 28 25 23	39 38 34 29	52 44 45 47	86 85 77 78	280 248 281 262	1,659 1,574 1,698 1,491	122 115 120 111
1958* 1959* 1960*	6 6	::	92 96 86	14 15 12	10 11 17	15 17 22	27 21 23	28 27 22	32 34 29	41 46 48	82 87 78	232 259 207	1,561 1,588 1,417	112 116 104
						- 52	Female	es	Name to		Y	odenski orana i		
1901–10 1911–20 1921–30 1931–35 1936–40 1941–45	::		68 69 73 100 136 118	27 20 13 14 18 17	6 6 4 5 6 8	4 5 4 3 4 5	4 5 4 3 5 6	10 8 5 6 6 6	26 20 10 8 12 11	64 50 31 30 34 26	132 108 85 92 123 81	389 356 318 388 476 346	1,657 1,752 1,845 2,283 2,714 2,135	143 132 117 138 167 127
1946 1947 1948 1949			110 111 100 105	15 11 11 10	4 7 4 6	3 9 4 3	5 4 4 2	6 4 3 2	6 5 4 4	11 15 18 13	59 58 51 50	260 286 231 232	2,037 1,947 1,726 1,840	110 108 94 98
1950 1951 1952 1953	::		113 117 105 123	8 9 9 7	-2 -2 4	2 2 2 2 2	1 5 5 2	3 3 2 4	5 3 5 5	14 12 11 15	45 46 44 50	230 240 218 241	1,994 2,034 1,743 2,018	103 105 92 106
1954 1955 1956 1957	::	::	141 144 149 142	6 8 8 9	3 3 3 2	3 2 2 1		3 2 2 2 2	5 6 5 5	13 15 13 14	45 50 50 40	295 281 275 250	2,249 2,261 2,338 2,178	118 118 120 111
1958* 1959* 1960*	::	::	149 151 150	6 12 8	2 3 2	- ₁	3 1 3	1 4 2	5 5 6	12 12 14	41 46 46	273 259 256	2,247 2,234 2,190	115 115 113

^{*} According to the Seventh Revision of the International Classification (Nos. E900–E904). Other years according to the classification in use at the time.

[†] S.M.R.s are based on civilian deaths and civilian populations for the years 1940-1949 inclusive.

Table CII. Accidental deaths: Deaths, infant mortality rates per 1,000 live births, and death rates per million living at all ages and ages over one year, by sex and age, 1960, England and Wales

東京東京皇皇皇皇 皇皇皇皇皇皇皇皇皇皇皇皇皇皇皇皇皇皇皇皇皇皇皇皇皇皇皇皇皇皇	Rate per million			F 5 5			Deaths					11
Cause of death (and ICD No.)	million living (All ages)	All ages	0-	1-	5-	10–14	Total under 15	15-	25-	45-	65 and over	Total aged 15 and over
Home accidents*: Coal gas poisoning (E890) {M}	18 22	391 526	2 2	_ 4	1 3	3 7	10 12	22 6	46 24	96 98	217 386	381 514
Other poisoning (E870–E888,E891–E895) $\dots \begin{Bmatrix} M \\ F \end{Bmatrix}$	7 9	160 212	_ 1	10 13	=	- 1	11 14	8 4	35 35	84 99	22 60	149 198
Falls (E900–E904) $\dots \qquad \prod_{F} M_F$	54 128	1,199 3,027	14	13 10	3 6	3 1	33 20	6 3	33 11	149 154	978 2,839	1,166 3,007
Burns and scalds (E916, E917) $\dots \qquad \begin{cases} M \\ F \end{cases}$	10 18	221 432	8 11	34 38	4 31	1 5	47 85	5 14	15 28	33 74	121 231	174 347
Choking and suffocation (E921, E922, E924, E925) \cdots $\begin{Bmatrix} M \\ F \end{Bmatrix}$		285 226	174 131	24 13	6 3	_ 2	206 147	9 3	20 7	32 37	18 32	79 79
Other (Remainder of E870–E936) $\begin{cases} M \\ F \end{cases}$		222 129	27 13	35 10	11 1	23 2	96 26	20 7	30 13	40 31	36 52	126 103
Total home accidents (E870–E936) $\begin{Bmatrix} M \\ F \end{Bmatrix}$		2,478 4,552	226 160	120 84	25 44	32 16	403 304	70 37	179 118	434 493	1,392 3,600	2,075 4,248
Transport accidents: Motor vehicle road accidents involving injury to:—		7,12							11			1 500
$\begin{array}{c} \text{Motorcyclist}\dagger\\ \text{(E814, E815, E821)} & \dots \end{array} \left\{ \begin{matrix} \text{M}\\ \text{F} \end{matrix} \right.$	69	1,529 151	_ 1	_ 4	_ 2	2 1	9 1	853 75	391 45	246 26	30 4	1,520
Pedal cyclist (E813) \cdots $\begin{Bmatrix} M \\ F \end{Bmatrix}$		477 91	_	4 1	18	64 12	86 14	69 19	68 14	169 36	85 8	391
Pedestrian (E812) \cdots $\begin{Bmatrix} M \\ F \end{Bmatrix}$		1,488 1,174	2	92 60	138 71	42 33	274 165	65 30	128 58	345 270	676 651	1,214 1,009
Occupant of motor vehicle (Remainder of E810–E825) { F		1,182 465	3 3	10 6	15 6	8 15	36 30	315 84	435 107	298 157	98 87	1,146 435
Other road accidents, involving injury to:— Pedal cyclist (E843) {M}	4	88 14	=	=	_ 5	6 4	11 4	18 1	13 1	28 7	18 1	77 10
Pedestrian (E840–E842, E844)		20 25	=	_ 1	_ 3	=	_ 4	=	- 1	4 5	12 19	16 25

Cause of death (and ICD No.)	Rate per million	谜					Deaths				12	
Cause of death (and ICD No.)	living (All ages)	All ages	0-	1-	5-	10–14	Total under 15	15-	25-	45-	65 and over	Total age
All other transport accidents:— including rail, air, water (Remainder of E800-E866) Total transport accidents	24 2 240	522 49	_ 1	11 5	12	21 2	45 10	109 4	157 12	176 14	35 9	477 39
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	83	5,306 1,969	7 4	122 72	193 81	143 67	465 224	1,429 213	1,192 238	1,266 515	954 779	4,841 1,745
$\begin{array}{c} \text{Other accidents:} \\ \text{Poisonings} \\ \text{(E870-E895)} & \dots & \dots & \left\{ \begin{matrix} \mathbf{M} \\ \mathbf{F} \end{matrix} \right. \end{array}$	5 3	108 75	- ,	_	1	-,	1	11	31	42	23	107
Falls (E900–E904) $\begin{Bmatrix} M \\ F \end{Bmatrix}$	32 22	707 532	- 2	5 2	6 2	29	40	7 60	18	192	26 293	667
Burns (E916, E917) $\binom{M}{F}$	2	54 23		1 3	5	2	8	5	12 16	25 14	481	523
Drowning (E929) $\binom{M}{F}$	29 7	641 168	=	68 19	89 12	59 18	216	3 75 3	93	8 156 52	4 101 45	19 425 119
Other (Remainder of E870–E936) ${M \choose F}$	40 4	882 100	18 15	9 4	19 7	29 2	75 28	139	299	310	59 34	807 72
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	108 38	2,392 898	18 18	83 28	120 21	119 25	340 92	290 25	561 65	714 126	487 590	2,052 806
	461 313	10,176 7,419	251 182	325 184	338 146	294 108	1,208 620	1,789 275	1,932 421	2,414 1,134	2,833 4,969	8,968 6,799
All accidents (E800-E936) Infant mortality rate and death rate per million living {M F	461 313	- 1	0·62 0·48	226 135	203 92	156 60	225	602	322	429 184	1,347 1,481	537 366

^{*} Including deaths in residential institutions.

[†] Including passengers.

CHANGES IN NUMBERS OF DEATHS AND AGE AT DEATH FOR CERTAIN DISEASES, 1920–1960

Death rates, when examined over a period of time, may be shown to vary considerably. While the Standardised Mortality Ratio from all causes has been showing a downward trend death rates from any one disease may vary, some increasing, for example, cerebral embolism and thrombosis, others decreasing, for example, tuberculosis. At the same time, the age at which any particular disease causes death may vary, so that what at one time afflicted the older age-groups may now cause mortality at younger ages, and vice versa. The causes of these variations are well known. In scarlet fever the virulence of the illness has decreased. The course of the illness is controlled in diabetes, so that it is no longer so lethal. New therapies introduced in the last thirty to forty years, such as the sulphonamides and antibiotics, have reduced the fatality rates of many conditions and improved surgery has contributed to diminish the risk of death, as, for example, in cases of perforated peptic ulcer.

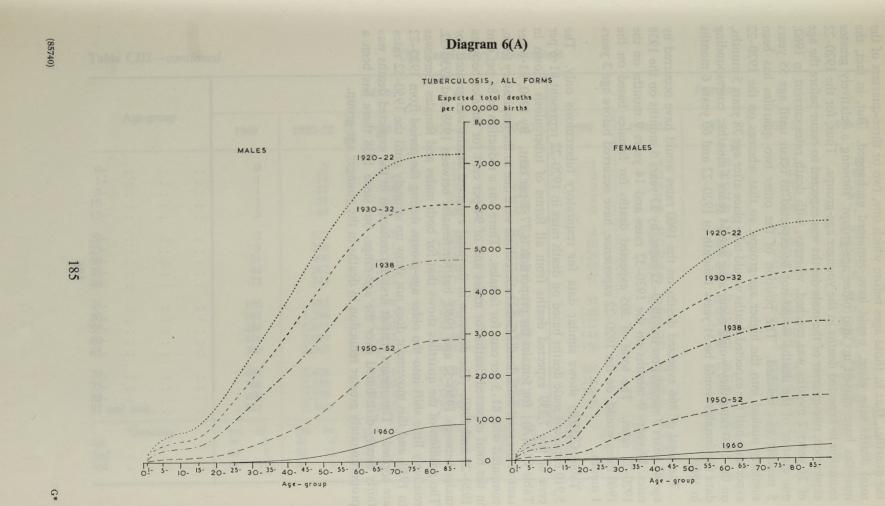
One way of examining the effects of the change in death rates is to employ the kind of technique used in preparing life tables. Starting with a standard number of births, for example, 100,000 males or females, in any year, the agespecific death rates current in that year are applied to the births. It is thus found how many people would die before reaching a given age, if throughout their lives they were subject to the death rates in a particular year. This gives a better idea of the potential saving in lives by the decrease in death rates than does a comparison of death rates at various times. In the examples which follow, it is not proposed to cover all major causes of death but eleven selected causes have been examined. The life table procedure has been modified so that the deaths shown in any column of the tables are those which would have occurred from that cause, without the possibility of dying from other causes having been eliminated. Where an average figure for three years is shown, this is because the deaths have been taken from the d_x column in the standard English Life Tables, which are based on the average of three years' experience of which the middle one is a Census year. As there was no Census of Population in 1941, 1938 has been taken, so as to avoid the disruption of the mortality rates by the war years. A single year's experience has also had to be used for 1960. An example, showing the calculation headings and the first few lines of working is appended (page 205).

Table CIII(A) is for all forms of tuberculosis. The column headed males, 1960, shows that, of 100,000 male children born, and subject throughout their lives to the 1960 death rates from tuberculosis, 866 would be expected to die of this disease. Of these, 1 would die before reaching age 1, a total of 3 before reaching age 5, a total of 90 before reaching age 45, and so on. (See also Diagram 6(A).) It is clear that there has been a very striking reduction in the overall probability of dying from some form of tuberculosis. Compared with 7,239 expected male deaths based on the 1920–22 rates, there would be 866 male deaths according to the 1960 rates, a reduction of 88 per cent. The reduction in expected female deaths over the same period is 95 per cent. If the reduction had been uniformly distributed over all age-groups the relative positions of

Table CIII. Expected total deaths before reaching a given age among 100,000 male or female persons born, subject to the death rates for the year shown

(A) Tuberculosis, all forms

		2101	100円	Males			THE STATE OF		Females		. 0
Age-g	group	1960	1950–52	1938	1930–32	1920–22	1960	1950–52	1938	1930-32	1920-22
0		1	15	70	109	165	2	14	51	86	129
1		3	70	241	381	538	4	66	215	319	462
5		4	90	313	500	716	5	87	293	442	652
10		4	108	380	597	875	6	107	375	588	902
15		6	154	603	931	1,265	9	189	719	1,090	1,464
20		8	248	987	1,459	1,914	12	345	1,198	1,687	2,114
25		16	395	1,381	1,963	2,530	20	524	1,601	2,223	2,690
30		30	556	1,726	2,466	3,156	41	686	1,930	2,645	3,204
35		57	728	2,111	3,007	3,832	65	811	2,175	3,001	3,669
40		90	922	2,521	3,573	4,534	84	917	2,373	3,308	4,081
45 50 55 60		142 207 317 450 603	1,178 1,504 1,879 2,247 2,558	2,991 3,494 3,939 4,295 4,522	4,193 4,760 5,241 5,609 5,853	5,195 5,804 6,323 6,744 7,024	111 128 150 176 209	1,010 1,104 1,190 1,275 1,354	2,550 2,695 2,838 2,969 3,074	3,559 3,785 3,985 4,152 4,283	4,435 4,731 4,982 5,206 5,389
70	:: ::	736	2,738	4,641	5,979	7,161	244	1,420	3,143	4,369	5,506
75		817	2,821	4,701	6,027	7,218	276	1,468	3,193	4,424	5,569
80		854	2,848	4,711	6,043	7,232	295	1,490	3,219	4,445	5,598
85 and over		866	2,854	4,715	6,047	7,239	305	1,498	3,226	4,452	5,608
Quar	tiles	yrs. m.	yrs. m.	yrs. m.	yrs. m.	yrs. m.	yrs. m.	yrs. m.	yrs. m.	yrs. m.	yrs. m.
1st		55 5	39 7	27 5	25 6	24 2	43 0	25 10	20 11	20 2	19 5
2nd		64 4	53 10	43 0	40 2	38 5	60 6	37 6	30 2	30 0	31 1
3rd		71 9	63 7	55 6	53 0	51 11	72 10	56 2	46 4	45 7	46 9



the quartiles, that is, those ages before which one, two or three-quarters of the total deaths take place, would have remained unchanged. But, in fact, the quartiles have moved up into older age-groups, showing a relatively greater reduction in expected deaths in the younger age-groups. Thus, for the 1920–22 experience, one quarter of the male deaths was expected to occur before the age of 24 years 2 months was reached, whereas, with death rates current in 1960, one quarter of the deaths would not be expected to occur until age 55 years 5 months was reached. The position of the other two quartiles has been similarly pushed into the higher age-groups, so that whereas on the 1920–22 experience half the expected deaths would take place after age 38 years 5 months, on the 1960 rates they would occur after age 64 years 4 months; corresponding data for females would be 31 years 1 month in 1920–22 and 60 years 6 months in 1960.

The total of 866 expected deaths on the 1960 rates would have occurred by age 43 years 7 months on the 1950–52 rates, by 23 years 5 months on the 1938 rates, 19 years 0 months on the 1930–32 rates and 14 years 9 months on the 1920–22 rates. The total of 305 expected deaths for females based on the 1960 rates would, on the 1920–22 experience, have occurred before age 3 years 1 month.

Table CIII(B) shows similar data for respiratory tuberculosis only. The 5,910 expected male deaths based on death rates in 1920–22 represent 81·6 per cent of the 7,239 expected deaths from all forms of tuberculosis shown in Table CIII(A); for females the proportion is 77·8 per cent. By 1960, 93·6 per cent of the total male deaths from tuberculosis were due to the respiratory form, compared with 81·3 per cent for females. There was a reduction of 86 per cent in the total expected deaths for males and of 94 per cent for females between 1920–22 and 1960. The decrease in the total expected deaths was greatest for males between 1950–52 and 1960, but for females between 1938 and 1950–52. The position of the quartiles shows that for both males and females there was relatively little shift into the older age-groups during the period from 1920–22 to 1938, and this movement does not show up strongly until the 1950–52 rates are applied. This means that at first the reduction in the expected deaths was fairly evenly distributed over the age-range, but since 1938 there has been a proportionately greater reduction in deaths in the younger age-group.

				Males		No. 1			Females		Christian Christ
	Age-group	1960	1950–52	1938	1930–32	1920–22	1960	1950–52	1938	1930–32	1920–22
0- 1- 5- 10- 15-		0 1 1 1 2	5 14 17 21 47	9 31 39 62 222	15 51 73 107 363	15 72 108 170 456	1 2 2 2 2 3	4 12 15 21 79	9 22 35 74 359	12 44 70 151 578	14 66 119 266 725
20- 25- 30- 35- 40-		2 9 21 44 73	127 260 406 562 743	557 911 1,227 1,581 1,963	823 1,278 1,740 2,241 2,773	1,022 1,574 2,148 2,780 3,435	4 10 29 50 67	220 387 540 656 754	797 1,167 1,466 1,691 1,873	1,117 1,608 1,991 2,315 2,597	1,308 1,827 2,294 2,717 3,087
45- 50- 55- 60- 65-		120 181 286 416 560	985 1,296 1,655 2,009 2,307	2,408 2,882 3,303 3,642 3,851	3,360 3,901 4,354 4,694 4,917	4,052 4,621 5,102 5,489 5,737	91 106 123 144 170	837 920 996 1,071 1,139	2,029 2,162 2,287 2,402 2,493	2,822 3,024 3,197 3,340 3,448	3,400 3,661 3,875 4,059 4,206
70- 75- 80-	ond over	687 766 800 811	2,476 2,555 2,579 2,584	3,956 4,005 4,014 4,017	5,026 5,064 5,077 5,080	5,852 5,896 5,906 5,910	200 226 241 248	1,196 1,235 1,254 1,259	2,546 2,580 2,599 2,602	3,516 3,557 3,570 3,575	4,296 4,342 4,359 4,364
1st 2nd 3rd	Quartiles	yrs. m. 56 0 64 7 71 11	yrs. m. 42 4 54 11 64 0	yrs. m. 31 6 45 6 56 7	yrs. m. 29 11 42 10 54 2	yrs. m. 29 2 41 4 53 4	yrs. m. 43 6 60 3 72 8	yrs. m. 27 10 38 10 56 7	yrs. m. 23 4 32 3 47 6	yrs. m. 22 11 32 4 46 10	yrs. m 23 2 33 10 48 0

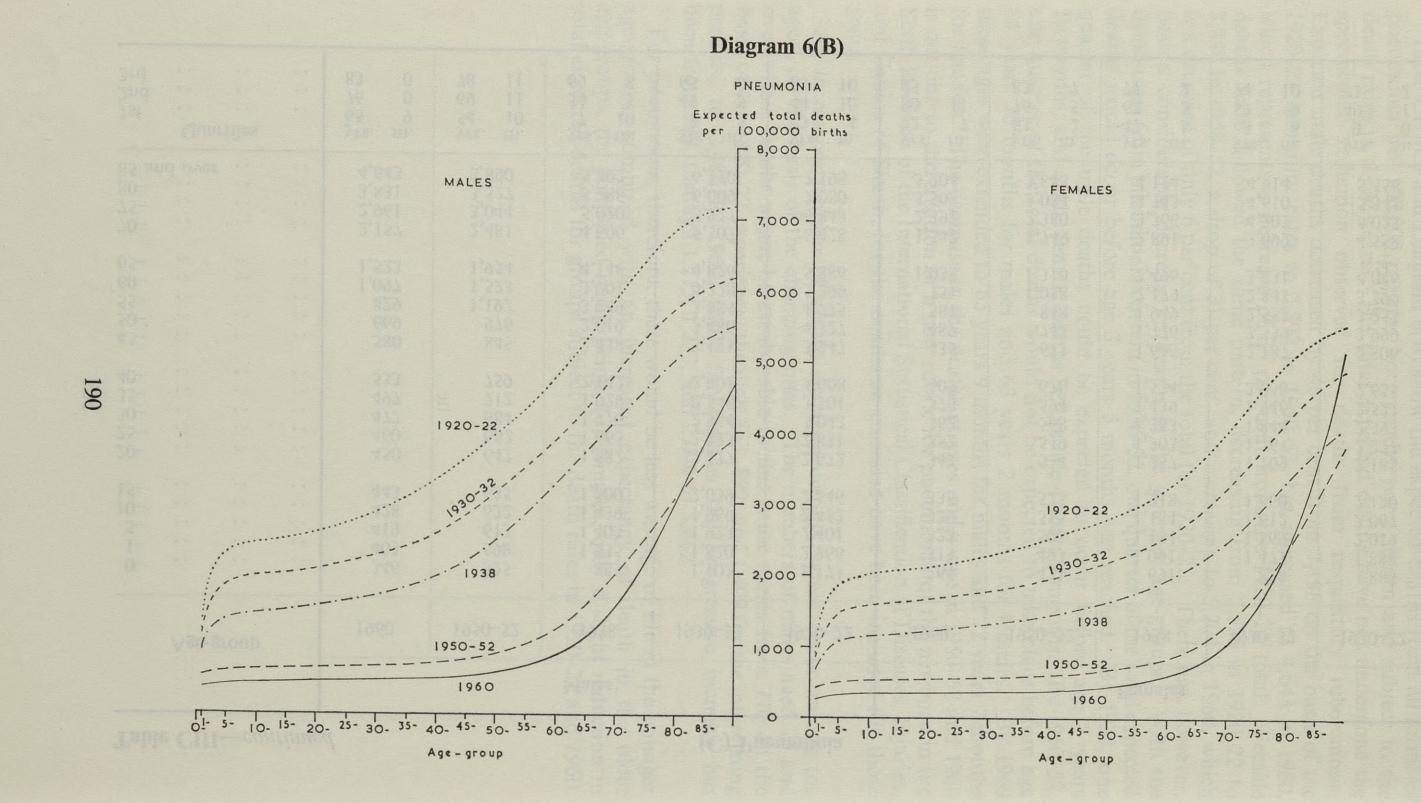
Table CIII(C) and Diagram 6(B) show the expected deaths from all forms of pneumonia per 100,000 persons born in the years shown and subject to the death rates in those years. The total expected deaths have not undergone the spectacular reduction observed for deaths from respiratory tuberculosis. Expected male deaths decreased by 46 per cent from 7,198 on the basis of the 1920-22 mortality rates to 3,890 in 1950-52, but increased to 4,643 in 1960, which represents a decrease of 35 per cent from the 1920-22 total. Female deaths have followed the same pattern, decreasing from 5,556 in 1920-22 to 3,848 in 1950-52, a drop of 31 per cent, and increasing to 5,204 in 1960, which is a decrease of only 6 per cent from the total for 1920-22. There has, however, been a considerable decrease in deaths in the younger age-groups. With the death rates from pneumonia current in 1930-32, one quarter of the total expected deaths would occur before age 3 years 5 months was reached. By 1938, one quarter of the male deaths could be expected to occur before age 7 years 10 months, and of the female deaths before age 4 years 5 months. By 1950-52, one quarter of the total deaths would not be expected to take place before age 54 years 10 months for males and 63 years 2 months for females. By 1960 these ages were extended to 65 years 9 months for males and 72 years 7 months for females. The decrease in the deaths at ages under one in 1950-52 and 1960 is not due to the creation of a new rubric for pneumonia of the newborn in the Sixth Revision of the International Statistical Classification of Diseases, Injuries, and Causes of Death, for the deaths so classified have been included for those years.

An increasing number of deaths from pneumonia would occur among the aged, on the basis of the changing rates. The numbers of males aged 75 and over whose deaths might be attributable to this cause varies from 770 on the basis of the 1920–22 experience, through 863, 892, and 1,409 for the intervening periods, to 2,486 in 1960, while for females the progressive increase has been from 998, through 1,215, 1,233, and 2,099 to 3,662.

For pneumonia, therefore, there would be less wastage of life in the younger age-groups, combined with an increased expectancy of death in the older age-groups, the combined result being, for females, only a slight reduction in total expected deaths for groups subject to the death rates in 1920–22 and 1960.

(C) Pneumonia

				446	Males		THE REAL PROPERTY.		100	Females		
	Age-g	roup	1960	1950–52	1938	1930–32	1920–22	1960	1950–52	1938	1930–32	1920–22
0- 1- 5- 10- 15-			 346 403 419 428 443	525 598 613 622 635	883 1,335 1,403 1,439 1,500	1,102 1,820 1,923 1,969 2,039	1,173 2,266 2,401 2,452 2,546	264 313 323 329 335	421 493 505 515 525	691 1,091 1,154 1,184 1,218	828 1,471 1,569 1,612 1,660	883 1,888 2,019 2,067 2,120
20- 25- 30- 35- 40-	::		450 460 477 497 533	647 662 684 712 759	1,582 1,665 1,770 1,929 2,142	2,127 2,223 2,354 2,548 2,801	2,672 2,831 3,042 3,301 3,608	343 352 362 378 403	534 549 568 594 626	1,257 1,303 1,363 1,439 1,534	1,709 1,767 1,844 1,946 2,058	2,185 2,277 2,393 2,522 2,655
45- 50- 55- 60- 65-	:: :: ::		 580 669 829 1,097 1,523	845 976 1,192 1,523 1,954	2,438 2,819 3,249 3,701 4,148	3,121 3,486 3,884 4,328 4,826	3,947 4,327 4,775 5,299 5,886	435 487 587 751 1,038	673 743 848 1,028 1,310	1,645 1,776 1,949 2,179 2,496	2,187 2,339 2,552 2,843 3,231	2,806 2,999 3,253 3,599 4,046
70- 75- 80-	 nd over		 2,157 2,961 3,831 4,643	2,481 3,044 3,527 3,890	4,600 5,020 5,286 5,492	5,307 5,727 6,009 6,170	6,428 6,848 7,080 7,198	1,542 2,392 3,503 5,204	1,749 2,380 3,084 3,848	2,891 3,366 3,743 4,124	3,699 4,207 4,610 4,914	4,558 5,023 5,345 5,556
1st 2nd 3rd	Quai	rtiles	 yrs. m. 65 9 76 0 83 0	yrs. m. 54 10 69 11 78 11	yrs. m. 7 10 54 1 69 8	yrs. m. 3 5 49 5 68 0	yrs. m. 3 4 44 10 65 10	yrs. m. 72 7 80 11 85 +	yrs. m. 63 2 76 5 83 7	yrs. m. 47 5 62 5 77 2	yrs. m. 3 6 57 9 74 10	yrs. m. 3 0 49 1 71 2



(D) Bronchitis, chronic or unspecified

				Mal	les			Fema	ales	
Ag	ge-group	9	1960	1950–52	1938	1930–32	1960	1950–52	1938	1930–32
0- 1- 5- 10- 15-	::		11 16 19 20 21	22 28 30 31 32	70 86 92 97 105	173 217 224 227 233	8 10 12 12 12	17 21 22 23 25	51 67 71 76 83	137 175 180 184 190
20- 25- 30- 35- 40-	::	::	22 25 29 41 79	33 36 42 60 107	113 126 140 158 190	242 253 269 300 361	13 15 19 25 39	27 29 34 45 60	89 97 103 110 123	195 201 210 222 239
45- 50- 55- 60- 65-	::	::	160 375 884 1,797 2,972	242 542 1,121 2,050 3,169	264 387 566 777 1,041	459 603 797 1,073 1,501	65 110 186 341 579	89 150 273 489 855	140 174 224 303 446	269 320 415 594 901
70 75- 80- 85 an	d over		4,276 5,454 6,249 6,756	4,328 5,342 6,064 6,532	1,409 1,854 2,260 2,588	2,123 2,897 3,560 4,060	936 1,437 1,917 2,484	1,423 2,183 2,902 3,632	695 1,102 1,508 2,034	1,461 2,255 3,103 3,990

Table CIII(D) gives the expected deaths per 100,000 male or female persons born, from bronchitis, chronic or unspecified. In tracing this cause of death back through the various changes in the International Classification of Diseases, it is difficult to go farther than 1930–32. Table CIII(D) and Diagram 6(C) show that a comparatively insignificant number of deaths would be expected to occur before age 40; the highest number would be the 300 expected male deaths for 1930–32. A slight increase in male deaths would be expected by age 55. On the experience of 1930–32, the total deaths expected before this age would be 603, compared with 542 for 1950–52 and 375 for 1960. Above this age a rapid increase would occur, so that the total expected male deaths based on the 1930–32 rates would be 4,060, compared with 3,990 for females. With the 1938 death rates, the expected male total would be 2,588, a decrease of 1,472 from the total for 1930–32; for females the total would be 2,034, a decrease of 1,956 from the 1930–32 total.

On the basis of the rates current in 1950–52 and 1960, a sudden sharp increase would occur after age 55, the deaths after this age being 5,990 on the basis of the rates in 1950–52 and 6,381 on the rates for 1960. This increase was not paralleled by the female deaths, and therefore cannot be presumed to be due to changes in classification, and is unlikely to be due to changes in diagnostic practice, which should affect both male and female rates indiscriminately. The total expected female deaths based on the rates for 1950–52 would be 3,632, the second highest number for the periods shown, but the expected total for 1960 would only amount to 2,484. The main increase in female deaths did not occur until after age 65, ten years later than for males, and was much less pronounced, which accords with the theory that the elderly male is more vulnerable to certain respiratory diseases than the elderly female.



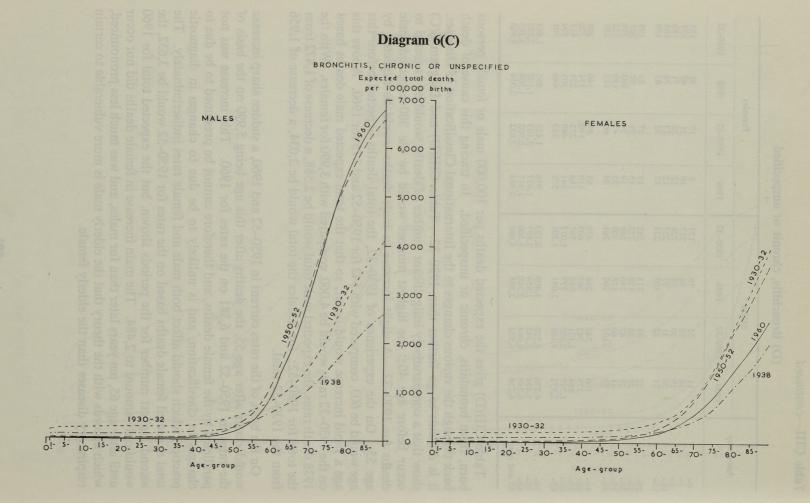
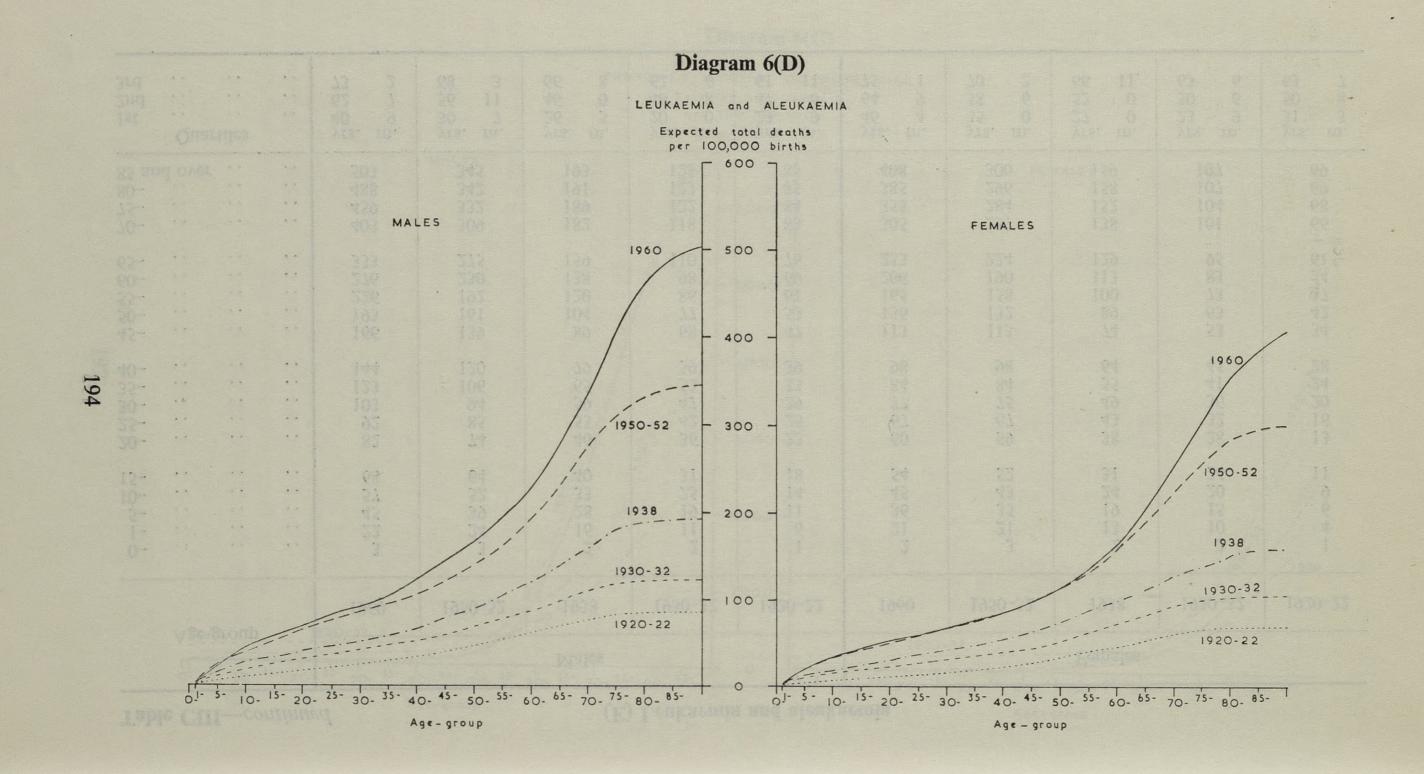


Table CIII—continued

(E) Leukaemia and aleukaemia

	A ga gg	roup	- Color		EFE L	Males					Females		
	Age-gr	roup		1960	1950–52	1938	1930–32	1920–22	1960	1950–52	1938	1930–32	1920-22
0- 1- 5- 10- 15-			: ::::::	3 222 45 57 68	3 24 39 52 64	2 16 28 33 40	2 11 19 25 31	1 6 11 14 18	2 21 36 45 54	3 21 35 43 52	2 13 19 24 31	2 10 15 20 24	1 4 6 9 11
20- 25- 30- 35- 40-	::		:::::	82 92 103 123 144	74 85 94 106 120	46 53 59 65 79	36 42 47 52 59	22 25 29 33 39	60 67 77 84 98	59 67 . 75 . 84 . 98	38 43 49 55 64	28 32 36 41 45	13 16 20 24 28
45- 50- 55- 60- 65-			:::::	166 193 226 276 333	139 161 192 230 275	89 104 120 138 159	68 77 86 98 110	47 53 61 69 76	113 136 165 206 253	113 132 158 190 224	74 89 100 113 129	53 63 73 83 95	34 42 47 54 61
70– 75– 80– 85 au	 nd over			403 459 488 503	309 332 342 345	182 189 191 193	118 122 123 123	83 84 85 85	305 355 385 408	257 284 296 300	138 152 158 159	101 104 107 107	66 68 69 69
1st 2nd 3rd	Quart	iles		yrs. m. 40 9 62 7 73 2	yrs. m. 30 7 56 11 68 3	yrs. m. 26 5 46 0 66 8	yrs. m. 20 0 46 8 62 6	yrs. m. 23 9 47 6 61 11	yrs. m. 46 4 64 9 75 1	yrs. m. 35 0 58 6 70 2	yrs. m. 27 0 52 0 66 11	yrs. m. 23 9 50 6 63 6	yrs. m. 31 3 50 8 63 7



From Table CIII(E) and Diagram 6(D) it is apparent that leukaemia and aleukaemia are responsible for comparatively few deaths. Nevertheless, the expected deaths based on current rates in any period have shown an increase for both males and females since 1920–22. The total number of expected deaths for both sexes has increased nearly six-fold, from 85 to 503 for males and from 69 to 408 for females. The total of 85 male deaths expected on the experience of 1920–22 would have been reached by age 59 years 5 months on the 1930–32 rates, by age 30 on the 1950–52 rates and by age 26 years 6 months on the 1960 rates. Similarly for females, the total of 69 expected deaths from the rates current in 1920–22 would be reached by age 31 years on the 1960 experience.

Compared with a six-fold overall increase, the expected male deaths at ages 60 and over for the 1960 rates were more than 11 times those for 1920–22, while for females there was an eleven-fold increase. Part of these increases is probably due to improved diagnosis so that it is difficult to say how far they reflect a change in the prevalence of these conditions.*

Table CIII—continued

(F) Cerebral haemorrhage, embolism and thrombosis

				Ma	les		Females						
Age-group		ıp	1960	1950–52	1938	1930–32	1960	1950–52	1938	1930-32			
0- 1- 5- 10- 15-	4 6 9 13 19		4 5 7 11 16	0 0 1 2 3	0 0 0 1 2	3 5 6 9 12	2 3 4 7 10	0 0 0 0 1	0 0 0 0 0				
20- 25- 30- 35- 40-		::	26 34 54 97 171	24 36 54 85 153	5 9 20 39 88	5 9 18 42 95	21 33 53 98 175	17 26 45 81 155	4 7 16 41 93	3 7 17 38 91			
45- 50- 55- 60- 65-	::	:::::	311 601 1,114 2,051 3,486	286 573 1,094 2,053 3,534	199 455 931 1,735 3,034	212 440 899 1,705 2,995	311 584 1,053 1,906 3,349	329 681 1,268 2,245 3,871	214 502 981 1,861 3,169	232 512 978 1,754 3,029			
70- 75- 80- 85 an	 id over		5,510 7,754 9,672 11,034	5,590 7,773 9,440 10,457	4,786 6,565 7,776 8,384	4,667 6,342 7,426 8,017	5,738 9,140 12,673 16,495	6,386 9,569 12,572 14,989	5,079 7,324 9,112 10,682	4,803 6,862 8,495 9,664			

Table CIII(F) shows that, on the basis of the 1960 death rates for cerebral haemorrhage, thrombosis and embolism, among 100,000 males born 11,034 deaths would be expected from this cause, compared with 16,495 among the same number of female births. In each of the periods considered, the expected female deaths are in excess of the male. Based on the 1930–32 death rates from this cause, the total female deaths would be 21 per cent in excess of the male, whereas on the basis of rates current in 1960, the excess of female over male deaths would be 49 per cent.

The total expected deaths increased at successive intervals from 1930–32 to 1960 for both males and females. Taking the number of deaths expected in 1930–32 as 100 per cent, the male totals would be 105 per cent in 1938, 130 per

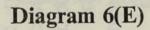
Court Brown W. M. and Doll, R. (1959). *Brit. med. J.*, vol. I, p. 1067, and Court Brown W. M. and Doll, R. (1961). *Brit. med. J.*, vol. I, pp. 982–983.

^{*} For a fuller discussion on this point see:

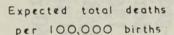
cent in 1950-52 and 138 per cent in 1960. The female totals for the same periods would be 100 per cent, 111, 155 and finally 171 per cent in 1960.

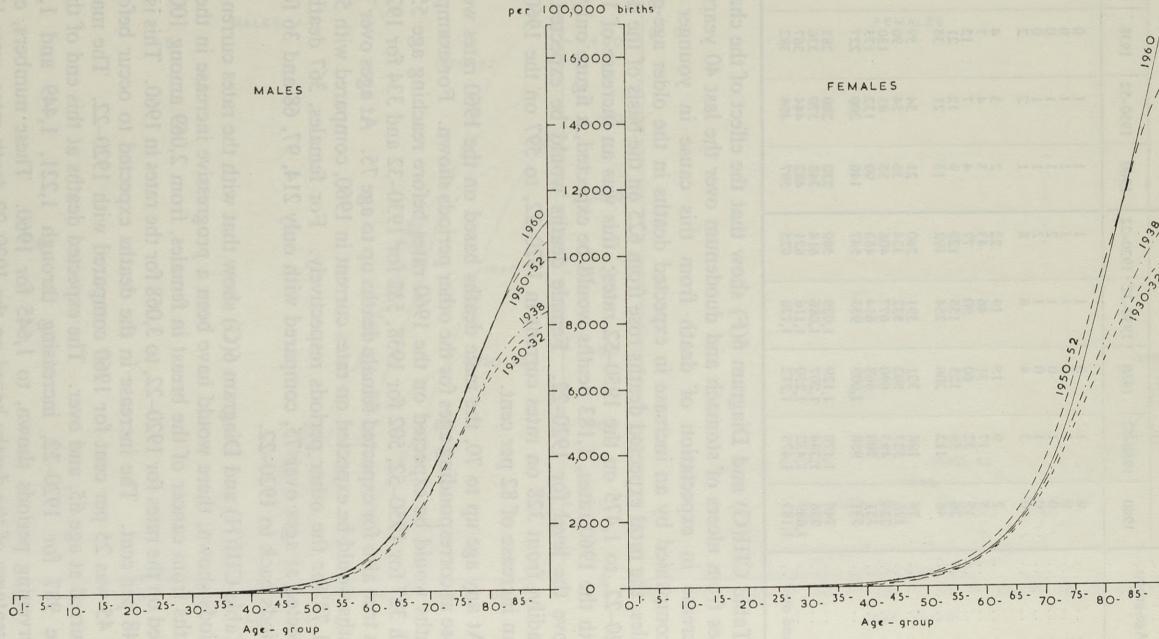
Although less female deaths were expected from the 1950–52 death rates than from those for 1960, they tended to occur earlier. On the 1950–52 rates, there would be 9,414 deaths between ages 45 and 80, compared with 8,965 if the 1960 rates were applied. The same is true of male deaths between ages 65 and 80 (see also Diagram 6(E)).

In each period shown in the table, half the female deaths would be expected to occur after age 75, whereas in the three earlier periods half the male deaths would occur before age 70 was reached, and only on the basis of the 1960 rates would half the expected deaths take place after age 75.



CEREBRAL HAEMORRHAGE, EMBOLISM and THROMBOSIS





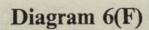
(G) Ulcer of stomach and duodenum

			Males		Females						
Age-group	1960	1950–52	1938	1930–32	1920–22	1960	1950–52	1938	1930–32	1920-22	
0 1 5 10	0 0 0 0	1 1 1 1 3	0 0 0 0 0 4	1 1 1 1 6	1 1 2 2 8	1 1 1 1 1	1 1 1 1 2	0 0 0 0 0 2	1 1 1 1 4	1 1 2 4 10	
20	2 9 15 19 5 17 31 46 15 32 60 90 26 59 125 155		46 90 155	22 43 77 129 192	2 3 4 9 13	3 4 7 12 21	4 7 12 21 35	7 13 22 33 53	18 29 46 67 95		
45	76 125 224 351 531	198 327 493 708 958	321 502 690 868 1,009	391 532 677 814 933	260 334 406 483 547	21 36 55 90 146	34 54 83 132 200	59 90 130 175 227	88 130 175 224 276	128 161 199 235 266	
70 75 80 85 and over	746 938 1,089 1,183	1,179 1,344 1,432 1,475	1,129 1,207 1,250 1,272	1,029 1,086 1,116 1,128	589 614 621 625	230 348 482 597	280 370 444 494	285 336 367 382	318 353 373 386	292 313 324 328	

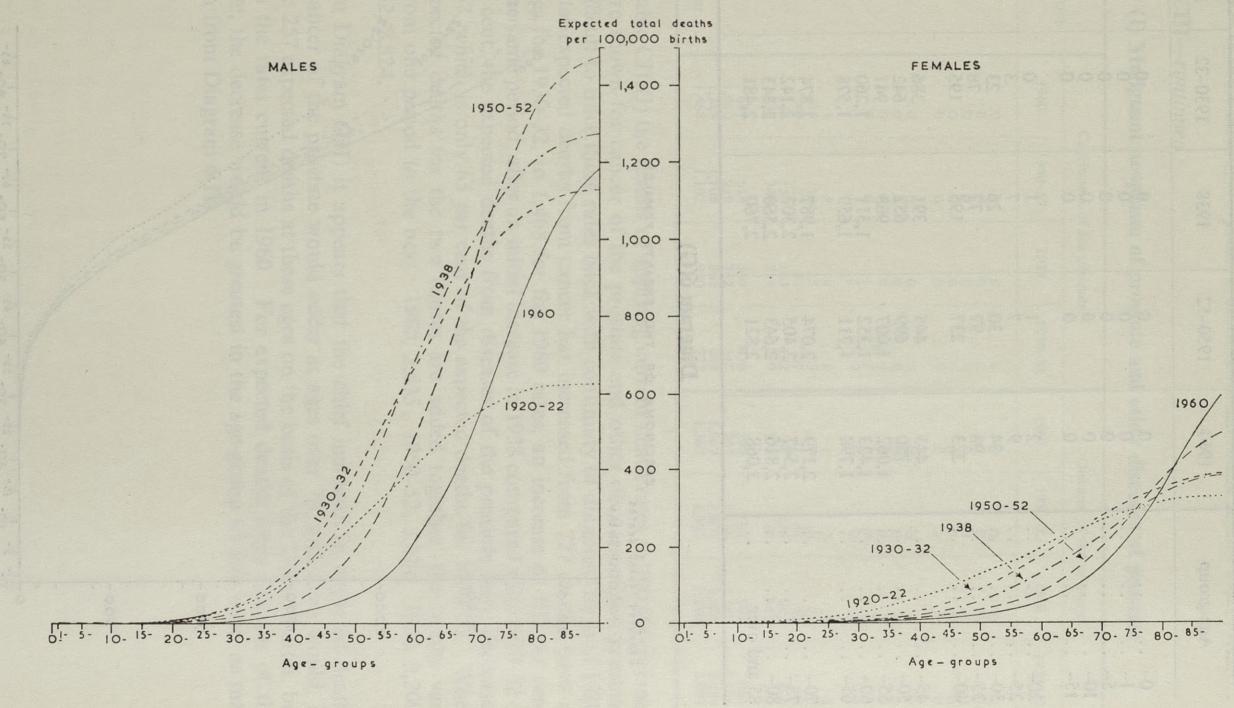
Table CIII(G) and Diagram 6(F) show that the effect of the changing death rates from ulcers of stomach and duodenum over the last 40 years has been a decrease in expectation of death from this cause in younger age-groups, accompanied by an increase in expected deaths in the older age-groups. For males, the total expected deaths rose from 625 on the basis of the death rates in 1920–22, to 1,475 on the 1950–52 rates; this was an increase of 136 per cent. With the 1960 rates, 1,183 deaths would be expected, a figure only 89 per cent above the level for 1920–22. Female deaths would be expected to increase steadily, from 328 on rates current in 1920–22, to 597 on the 1960 rates; this is an increase of 82 per cent.

At any age up to 70, the male deaths based on the 1960 rates were less than those at corresponding ages for the other periods shown. For example, 125 male deaths would be expected on the 1960 rates before reaching age 55, compared with 327 for 1950–52, 502 for 1938, 532 for 1930–32 and 334 for 1920–22. This was true also for expected female deaths up to age 75. At ages over 70, 652 male deaths would be expected on rates current in 1960, compared with 517, 263, 195 and 78 for the other periods respectively. For females, 367 deaths would be expected at ages over 75, compared with only 214, 97, 68 and 36 for the other periods back to 1920–22.

Table CIII(H) and Diagram 6(G) show that with the rates current during the periods shown, there would have been a progressive increase in the number of deaths from cancer of the breast in females, from 2,069 among 100,000 births, based on the rates for 1920–22, to 3,068 for the rates in 1960. This is an increase of 48 per cent. The increase in the deaths expected to occur before reaching age 45 was 25 per cent for 1960 compared with 1920–22. The main increases occurred at age 65, and over. The expected deaths at this end of the age range were 987 for 1920–22, increasing through 1,221, 1,449 and 1,469 in the intervening periods shown, to 1,645 for 1960. These numbers, expressed as percentages of the deaths based on the 1920–22 death rates, were 124, 147, 149 and 167 respectively.



ULCER OF STOMACH AND DUODENUM



199

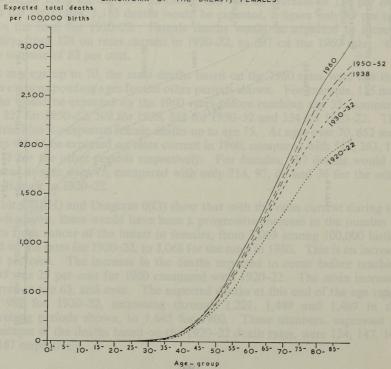
Table CIII—continued

(H) Carcinoma of the breast, females

Age-grou	ıp	1960	1950–52	1938	1930–32	1920–22
0 1 5 10 15	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
20 25 30 35		2 9 34 98 223	1 7 30 97 237	1 7 26 77 195	0 3 23 78 195	0 3 20 72 179
45 50 55 60		445 750 1,062 1,423 1,798	445 699 1,007 1,352 1,711	391 652 963 1,311 1,659	386 642 941 1,260 1,578	348 561 816 1,082 1,324
70 75 80 85 and over	G) in	2,179 2,547 2,816 3,068	2,074 2,405 2,643 2,821	1,987 2,307 2,560 2,760	1,874 2,142 2,343 2,481	1,575 1,805 1,957 2,069

Diagram 6(G)

CARCINOMA OF THE BREAST, FEMALES



200

The total of 2,069 deaths expected on the basis of the rates for 1920–22 would occur by age 78 years 8 months on the 1930–32 rates, by 74 years 11 months on the 1950–52 rates and by 73 years 7 months on the basis of the 1960 rates.

Table CIII—continued

(I) Malignant neoplasm of prostate and other diseases of prostate

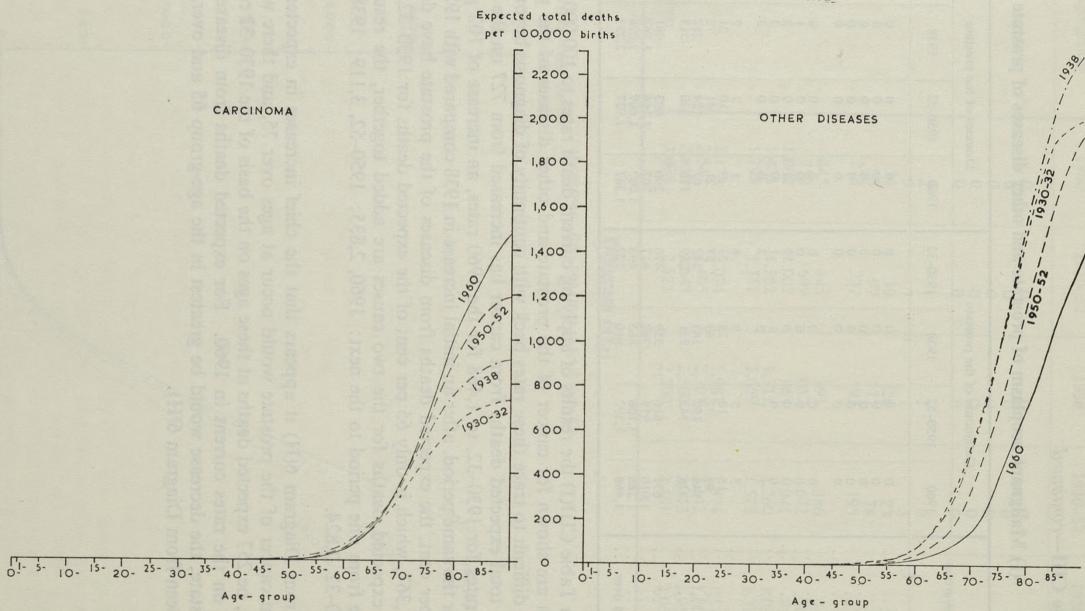
			Carcinoma of	f the prostat	e	D	iseases of the	prostate	
Age-grou	р	1960	1950–52	1938	1930–32	1960	1950–52	1938	1930–32
0 1 5 10		0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0
20 25 30 35		0 0 0 0 1	0 0 0 0 1	0 0 0 1 5	0 0 0 1 3	0 0 0 0	0 0 0 0	0 1 2 2 2 3	0 0 0 1 2
45 50 55 60	::	5 15 49 146 338	5 18 57 150 343	9 25 69 163 331	8 23 57 142 289	1 5 21 67 170	2 10 41 124 330	7 21 75 212 513	6 23 79 226 531
70 75 80 85 and over		651 1,010 1,288 1,468	616 919 1,106 1,192	559 762 865 910	470 617 693 727	390 707 1,067 1,367	693 1,166 1,607 1,927	981 1,562 2,026 2,299	981 1,506 1,884 2,097

In Table CIII(I) the results of applying current death rates to 100,000 persons born are shown for cancer of the prostate and other diseases of the prostate. It is difficult to trace these rates back with continuity of diagnosis beyond 1930. The total expected deaths from cancer has increased from 727 on the basis of the rates for 1930–32, to 1,468 for the 1960 rates, an increase of 102 per cent. Over the same period, after an initial increase in 1938 compared with 1930–32 of 10 per cent, the expected deaths from diseases of the prostate have decreased to 1,367, which is only 65 per cent of the expected deaths for 1930–32. When the expected deaths for the two causes are added together, the results vary little from one period to the next: 1960, 2,835; 1950–52, 3,119; 1938, 3,209; 1930–32, 2,824.

From Diagram 6(H) it appears that the chief increases in expected deaths from cancer of the prostate would occur at ages over 75, and there would, in fact, be 257 expected deaths at these ages on the basis of the 1930–32 rates, but 817 on the rates current in 1960. For expected deaths from diseases of the prostate, the decrease would be greatest in the age-group 65 and over, as may be seen from Diagram 6(H).

Diagram 6(H)

MALIGNANT NEOPLASM OF PROSTATE AND OTHER DISEASES OF PROSTATE



(J) Suicide

	Males						Females						
Age-group	1960	1950–52	1938	1930–32	1920–22	1960	1950–52	1938	1930–32	1920–22			
0 1 5 10	0 0 0 1 16	0 0 0 1 15	0 0 0 1 14	0 0 0 1 15	0 0 0 2 13	0 0 0 1 8	0 0 0 0 0 5	0 0 0 1 8	0 0 0 0 11	0 0 0 1 11			
20 25 30 35	58 107 168 232 298	41 74 112 160 225	49 98 157 234 314	57 111 170 245 349	40 73 119 185 266	26 51 80 117 163	14 30 48 78 114	26 54 87 129 177	31 61 96 134 178	27 43 67 94 128			
45 50 55 60	385 478 600 719 817	307 411 530 649 768	427 557 716 886 1,017	480 642 822 990 1,130	370 492 622 762 878	225 299 378 455 532	167 227 296 358 418	241 311 377 442 487	235 295 354 411 453	170 210 249 287 311			
70 75 80 85 and over	901 960 997 1,012	860 927 960 969	1,116 1,186 1,216 1,226	1,226 1,282 1,309 1,317	958 1,004 1,022 1,029	588 622 643 650	466 494 507 511	518 539 547 551	482 498 503 506	329 338 342 344			

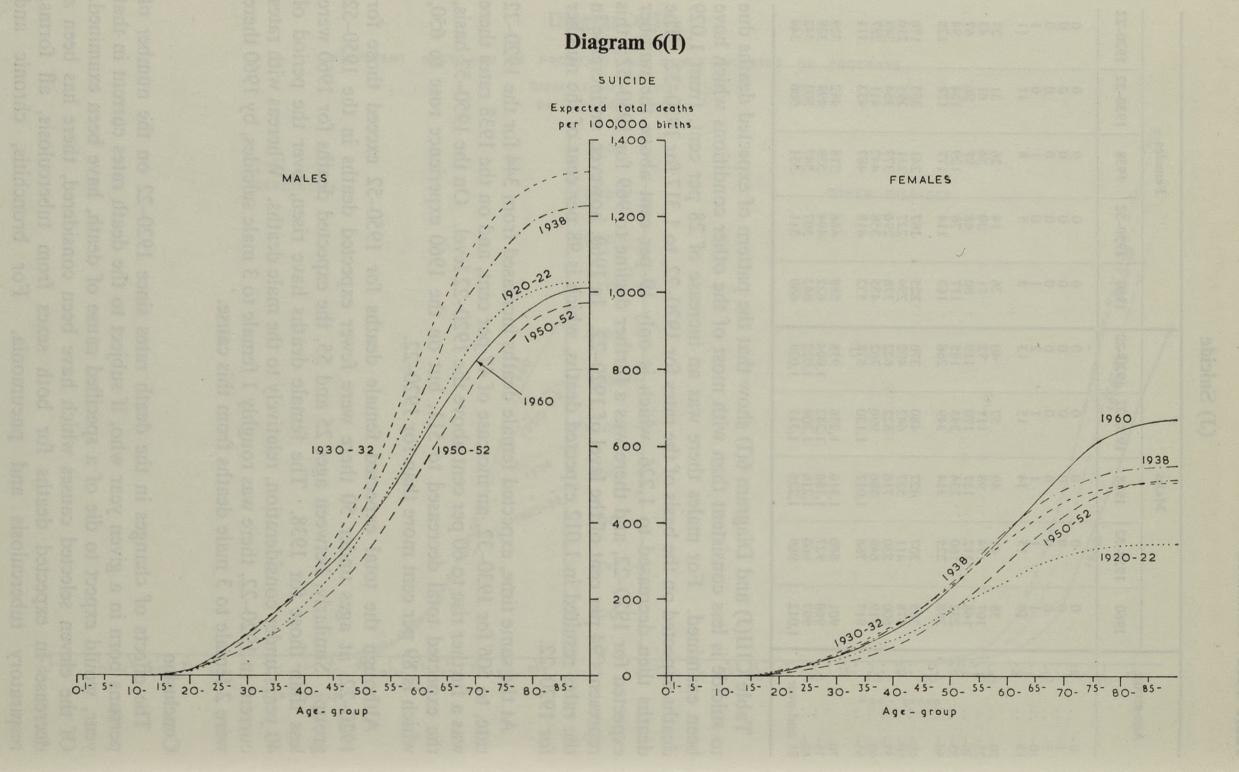
Table CIII(J) and Diagram 6(I) show that the pattern of expected deaths due to suicide is less consistent than with most of the other conditions which have been examined. For males there was an increase of 28 per cent, from 1,029 deaths expected on the basis of the rates for 1920–22, to 1,317 for 1930–32. The deaths then decreased to 1,226, which is only 19 per cent above the number expected for 1920–22, and there was a further decline to 969 for 1950–52; this represents 94 per cent of the level of 1920–22. In 1960, however, an increase in the rates resulted in 1,012 expected deaths, which is 98 per cent of the number for 1920–22.

At the same time, expected female deaths increased from 344 for the 1920–22 rate, to 506 for 1930–32, an increase of 47 per cent, and on the 1938 rates there was a further rise to 60 per cent above the 1920–22 level. On the 1950–52 basis, the expected total decreased to 511, but on the 1960 experience rose to 650, which is 89 per cent more than for 1920–22.

Although the total expected female deaths for 1950–52 exceed those for 1920–22, at ages under 50 there were fewer expected deaths in the 1950–52 group. Similarly, between ages 25 and 55, the expected deaths for 1960 were less than those for 1938. The female deaths have risen, over the period of 40 years under consideration, relatively to the male deaths. Whereas with rates current in 1920–22, there was roughly 1 female to 3 male suicides, by 1960 there were 2 female to 3 male deaths from this cause.

Conclusion

The effects of changes in the death rates since 1920–22 on the number of persons born in a given year who, if subject to the death rates current in that year, would expect to die of a specified cause of death, have been examined. Of the eleven selected causes which have been considered, there has been a decrease in expected deaths for both sexes from tuberculosis, all forms, respiratory tuberculosis and pneumonia. For bronchitis, chronic and



unspecified, a saving in female lives has been accompanied by a loss in male lives. In the case of suicide there has been an increase in expectation of female deaths and a small reduction in expected male deaths. Increased expectancies of death are also shown for cancer of the breast in females, and for cancer of the prostate. The latter has been roughly balanced by a decrease in deaths due to diseases of the prostate generally. Increased expectancy of death is shown for leukaemia and aleukaemia, ulcers of stomach and duodenum, and cerebral haemorrhage, embolism and thrombosis.

The tables produced by this method are inter-dependent. If fewer deaths appear under one cause, they must appear under some other cause, although not necessarily one which has been selected for study here. This complementary pattern need not, however, be incompatible with a general shift of deaths to the older ages for all causes. In addition, the tables contain a mixture of generations so that an increase in the deaths from one particular condition may be due to some generations possessing higher susceptibility to that condition.

So far as the eleven selected causes of death are concerned, the total effects may be summarised as follows:

Disease	Expectancy of dying fr	om this cause
Tuberculosis, all forms	1920–22; males 1 in 14; 1960 males 1 in 115;	females 1 in 18 females 1 in 328
Tuberculosis, respiratory	1920–22; males 1 in 17; 1960 males 1 in 123;	females 1 in 23 females 1 in 403
Pneumonia	1920–22; males 1 in 14; 1960 males 1 in 22;	females 1 in 18 females 1 in 19
Bronchitis	1930–32; males 1 in 25; 1960 males 1 in 15;	females 1 in 25 females 1 in 40
Leukaemia and aleukaemia	1920–22; males 1 in 1,176; males 1 in 199;	females 1 in 1,449 females 1 in 245
Cerebral haemorrhage and thrombosis	1930–32; males 1 in 12; 1960 males 1 in 9;	females 1 in 10 females 1 in 6
Ulcer of stomach and duodenum	1920–22; males 1 in 160; 1960 males 1 in 85;	females 1 in 305 females 1 in 168
Suicide	1920–22; males 1 in 97; 1960 males 1 in 99;	females 1 in 291 females 1 in 154
Cancer of breast	1920–22; 1960	females 1 in 48 females 1 in 33
Cancer of prostate	1930–32; males 1 in 138 1960 males 1 in 68	
Diseases of prostate	1930–32; males 1 in 48 1960 males 1 in 73	

Appendix. Form of calculation (Respiratory tuberculosis, females, 1930–32).

Age- group	Deaths assigned to cause	Deaths from all causes	Ratio of Deaths cause Deaths all causes	Deaths (life table d_x)	d_x multiplied by ratio	Cumulative total deaths
0	116	50,786	·002284	5,455	12	12
1	306	24,040	·01273	2,521	32	44
5	279	10,013	·02786	942	26	70

Corrected notifications and deaths assigned to certain infectious diseases

Some infectious diseases which represent major public health problems in some parts of the world are seldom, if ever, found in England and Wales. For instance, 1948 was the last year in which a case of cholera was notified and 1956 the last year in which a case of typhus fever was notified. There are other infectious diseases, for example, relapsing fever, notifications of which are confined to an odd case or two. Occasionally some non-notifiable infections are found on death certificates. Numbers of corrected notifications and deaths for a few of these uncommon infectious diseases are shown in Table CIV, together with administrative area of assignment and the county in which the area is situated.

One case of relapsing fever, not fatal, was notified in Lancashire. In the 10 years 1951-60 there were 8 cases of this disease notified, none of them fatal. There was one smallpox notification in 1960 in Westminster, not fatal.

One male and one female death were classified to actinomycosis, a condition responsible for 76 deaths during 1950–60. There were no deaths from brucellosis in 1960.

Table CIV. Corrected notifications and deaths assigned to a few uncommon infectious diseases in England and Wales, 1960

temales I in 6		Notifications	ercomondi Dec s	
Disease (and ICD	No.)	Administrative area of assignment	County	Number of cases
Cholera (043)	${ M \brace F}$	1960 tanks 1 in	=	=
Plague (058)	${M \atop F}$	1930-32; — males 3 in	=	enement o recess
Relapsing fever (071)	${M \atop F}$	Worsley U.D.	Lancashire	pateon T poster
Smallpox (084)	${M \atop F}$	Westminster Met. B.	London A.C.	1 _
Typhus fever (100–108)	${ M \atop F}$	Ratio of Daring	Tarker of the	desert -
Malaria (contracted in England and Wales) (110–117)	$\bigg\}_F^M$	Contine all causes (142 table	to from all or	Age- group _ cause

Table CIV—continued

D			

		Deaths		
Disease (and ICD	No.)	Administrative area of assignment	County	Date of death
Cholera (043)	${ M \atop F}$	and the state of the state of	=	Maria Taylor
Brucellosis (044)	${ M \brace F}$		at I	ALS THE SPEA
Diphtheria (055)	$\begin{cases} M \\ M \\ F \\ F \\ F \end{cases}$	Huyton-with-Roby U.D. Derby C.B. Walthamstow M.B. Derby C.B. Liverpool C.B.	Lancashire Derbyshire Essex Derbyshire Lancashire	7th December 29th January 1st September 1st October
Plague (058)	${M \brace F}$		d = 100	1 Engine
Anthrax (062)	${M \brace F}$	Ledbury R.D.	Herefordshire	3rd November
Relapsing fever (071)	${M \brace F}$, , , , = = -serieuxe	al Engl	Worker I margit
Smallpox (084)	${M \brace F}$	- (3).A nobs	_	Camportal Med B.
Rabies (094)	${ M \brace F}$	= Q.A noba	=	Lambert Diet. B.
Typhus and other rickettsial diseases (100–108)	${M \brace F}$	Halifax C.B.	Yorkshire, West Riding	2nd September
Actinomycosis (132)	${ M \brace F}$	Southport C.B. Stockport C.B.	Lancashire Cheshire	28th December 27th June

Two male and three female deaths were assigned to diphtheria in 1960, and there were 49 corrected notifications, of which 24 were of males and 25 of females. The areas of assignment are shown in Table CV. Of these cases, 21 (43 per cent) were notified in the Greater London Conurbation.

Table CV. Corrected notifications of diphtheria, 1960, England and Wales

Administrative area	County	Numbe	er of cases
of assignment	County	M	F
High Wycombe M.B.	Buckinghamshire	1	CACOURTS
Aylesbury R.D.	Buckinghamshire	M bealing	4
Wycombe R.D.	Buckinghamshire	1	2
Chester R.D.	Cheshire	Mda. The	1
Derby C.B.	Derbyshire	3	3
Plymouth C.B.	Devon	distanten	1
Bridport M.B.	Dorset	Mana a	1
Walthamstow M.B.	Essex	3	2
Liverpool C.B.	Lancashire	1	5
Huyton-with-Roby U.D.	Lancashire	2	1
Camberwell Met. B.	London A.C.	5	3
Hampstead Met. B.	London A.C.	1	otlas (ce
Lambeth Met. B.	London A.C.	2	(0-00) pid
Southwark Met. B.	London A.C.	2	1
Stepney Met. B.	London A.C.	1	idensial di 100-108)
St. Faith's and Aylsham R.D.	Norfolk	1 1	
Brierley Hill U.D.	Staffordshire	1	TO STANDERS

Deaths from encephalitis certified as secondary to infectious disease

Table CVI shows numbers and sex-age distribution of deaths in which an infectious disease was the underlying cause, but where encephalitis was also mentioned on the certificate of cause of death, either in Part I as a complication of the infectious illness or in Part II as a condition contributing to the death. The total numbers of deaths assigned to the infectious diseases in question are shown for comparison.

Table CVI. Deaths from encephalitis certified as secondary to infectious disease, by underlying cause, sex and age, 1960, England and Wales

ICD	The second secon	All			Deaths	from e	ncepha	litis sec	ondary	to infec	tious di	seases		
ICD No.	Cause of death	deaths	All ages	0-	1-	2-	3-	4-	5–9	10–14	15–24	25–44	45–64	65 and over
056 080 085 087 088 089 096 344 480 483	Whooping cough	20 17 19 4 13 18 8 11 14 34 4 6 13 11 42 42 330 322 1 3	1 1 1 2 5 5 5 5 2 -1 2 -1 -2 1 -2 1	1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1	1 2	1	1 - 1 2 1 - 1 - - 1 - - 1	1		111111111111111111111111111111111111111	1 - 2	- 1 - - - - - - - - - - - - - - - - - -
sings in	Total $\left\{ egin{array}{cccccccccccccccccccccccccccccccccccc$	464 468	13 18	1 2	1 1	1 3	3	_	3 4	1	3	1	3	1 1

Tetanus

Deaths from tetanus are assigned to ICD No. 061 when the condition follows vaccination or a slight injury such as a scratch; if the injury is more serious the death is assigned to the injury. In 1960 there were 18 deaths, 15 male and 3 female, assigned to tetanus, and a further 14 deaths, 5 male and 9 female, where tetanus was mentioned in the statement of cause of death but which were assigned to other causes.

Of the 18 deaths assigned to tetanus in 1960, 8 occurred in children under 15 years of age. Of the 14 deaths involving tetanus but assigned to another underlying cause, 2 were of children under 15 years of age.

Details of all these deaths are given in Table CVII.

Table CVII. Deaths due to tetanus, by sex and age, showing cause of tetanus, 1960, England and Wales

- 10			Ingland and Wales
Age		Sex	Cause of tetanus
Acres Ch			(a) assigned to tetanus (ICD No. 061)
3 years		F	Small cut below knee
5 years		M	Small puncture on knee from cane thrown by another child
8 years		M	Tetanus*
9 years		M	Cut right hand by falling at play
10 years		M	Puncture wound in foot caused by a rusty nail
11 years		M	Tetanus*
12 years		M	Tetanus*
14 years		M	Fell from bicycle and cut knee
22 years		F	Splinter wound sustained while dusting
23 years		M	Entry wound not discovered but old scratches on palm of hands
50 years	10	M	Tetanus*
51 years		M	Tetanus*
56 years		M	Tetanus*
60 years		M	Nipped finger in jammed conveyor belt
66 years		M	Trod on nail in garden
75 years		M	Trod on nail in garden
77 years		F	Tetanus*
81 years		M	Tetanus*
			2 Ctartas
			(b) assigned elsewhere
21 months		M	Burn to left wrist, fell against fire
8 years		F	Compound fracture of forearm, fell from wooden box
20 years		M	Following extraction of teeth
36 years		M	Crush injury of left foot sustained in fall of a concrete lintel
44 years		M	Left great toe of foot trapped in machine at work
50 years		F	Carcinoma of ovary
52 years		M	Frost bite of the feet, amputation
56 years		F	Varicose ulceration
57 years		F	Infection of wound in forefinger. Finger wounded on child's
	483	8 8	spade.
59 years		F	Lacerated wound of left leg caused by fall in garden
66 years	8 33 1	F	Large cut on leg, slipped and fell on disused shed door with
	Fr 3	3 8	rusty appendages
69 years		F	Varicose ulcer
77 years		F	Varicose ulcer
87 years		F	Cut in the left index finger

^{*} No cause stated.

Deaths following vaccination or other prophylactic inoculation

This section gives details of deaths classified to ICD Nos. E940–E942, vaccinia, postvaccinal encephalitis, and other complications of smallpox vaccination, and to ICD Nos. E943, E944, post-immunization jaundice and hepatitis, and other complications of prophylactic inoculation.

In 1960 there were five deaths assigned to complications of vaccination against smallpox:

- (1) Male aged 4 months, certified as generalised vaccinia following vaccination.
- (2) Male aged 4 months, certified as encephalitis, vaccination against smallpox having taken place eleven days before death.
- (3) Male aged 10 months, certified as I(a) Acute Encephalitis, II Convulsions; further investigation revealed that successful vaccination against smallpox had taken place eleven days before death.
- (4) Male aged 5 months, certified as postvaccinal encephalitis with severe reaction to smallpox vaccination.
- (5) Female aged 40 years, certified as acute cerebral oedema due to post-vaccinal encephalitis.

There were two deaths assigned to complications of other prophylactic inoculations, one following injection of anti-tetanus toxin:

- (1) Female aged 23 years, certified as pyelonephritis and bronchopneumonia due to encephalomyelitis caused by an injection of anti-tetanus serum following a fracture of the shaft of the left femur.
- (2) Male aged 40 years, certified as anaphylactic shock due to anti-polio injection (second injection).

Deaths by cause, sex and age connected with the administration of anaesthetics

Table CVIII shows that there were 344 deaths in 1960 in which there was mention of the administration of anaesthetics on the death certificate. This shows a considerable reduction from the 414 deaths in 1959.

Of the 344 deaths in 1960, 163 (47 per cent) were of persons aged 65 and over. Of the 344 deaths, 71 (21 per cent) were classified to malignant neoplasms and a further 35 (10 per cent) to intestinal obstruction and hernia. Note should be made that mention of anaesthetics does not necessarily mean that they played any large part in the train of events leading to death or that the deaths mentioned include all those in which anaesthetics played a part.

Table CVIII. Deaths by cause, sex and age, connected with the administration of anaesthetics, 1960, England and Wales

ICD No.	Cause of death	All	ages	0		5		15	<u>i</u> _	2:	5-	35	<u>-</u>	4:	5-	5	5—	65 an	id ove
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
001–008	Tuberculosis of the respiratory							1 2							730				
020-029 140-205	Syphilis and its sequelae	1	2	_	1 _	三	=	=	=	=	=	=	1	_	=	-	_	-	1
140-203	Malignant neoplasms including neoplasms of lymphatic and																	1	
210–239	Benign neoplasms and neoplasms	37	34	-	-	1	-		-	1	2	4		7	5	10	9	18	18
250–254	of unspecified nature Diseases of thyroid gland	1	7	_	_	_	-	_		_	2	_	2	1	1				
260	Diabetes mellitus	2	1 2					E	_	1	_		1 22	1	1	-	-		
330–334	Vascular lesions affecting central nervous system	3	1													-	1		
370–389 410–416	Diseases of eye	2 2	6			1	2			1	二				1	1	2	2	-
420-422	Arteriosclerotic and degenerative		9	-	-		1	-	-	-	-	-	3	1	3	1	1		
440-443	heart disease	13	5	_		-	_	-	-	-	-	-	_	1	-	3	1	9	
144 447	Hypertension without mention of									-	-	1	100		_	-	1	-	-
450-456	Diseases of arteries	1 2 3	2	=	=		_			-			1		=	1	-	-	-
500–502 510	Bronchitis	3	1	-	-	-	-	-	-	-	= 9		=			1	=	2 2	
530–535	adenoids Diseases of teeth and supporting	3 4	3	_	-	3	2			_	1	-	_						
	structures		5			-		1	1	-		1	3	1	-	-	1	1	-
540, 541 550–553	Ulcer of stomach and duodenum Appendicitis	15 2	6	-	=	<u>-</u> 1	-	-	-	_	= 1	-	_	2	-	6	1	7	
560, 561, 570 543, 571, 572	Intestinal obstruction and hernia	18	17	2	1	_				三	二	1	2	2	1	8	3	6	1
545, 571, 572	Gastritis, duodenitis, enteritis, and colitis, except diarrhoea of the					F				100				2 6	1				1
584, 585	newborn	2	8 5	_	=	-	2	=	-	-		= 1			2	_	_	2	
610 [°] 640–689	Hyperplasia of prostate Deliveries and complications of	18	-		_				=	E						1	_	17	
040-089	pregnancy, childbirth, and the		1 0								5			10					
720–749	puerperium Diseases of the bones and organs	-	7	-	5	-	-	-	1	-	5	=	1	S 100	_	_			-
750–759	of movement	1 5	3 7	-	1	-	1	-	_	1 1	_	_			_	1	1	1 1	
760–769	Birth injuries, asphyxia and		- 3	2	3	2	3	1	1		-		-		2-5		-	-	-
Rem. 001–795	infections of newborn All other diseases	17	23	2		<u>-</u> 1	1		-1	=1	-	-	<u>-</u> 2	-	4			<u>-</u>	-
E810-E835	Motor vehicle accidents	2	2	5_B		AL F								1			1	,	
E900-E904 Rem. E800-	Accidental falls	2 7 2	18 2	2	-	-	<u>-</u>	_	-	_	-		Ξ	_	=	1	3	4	1:
E962	All causes	165	179	8	6		1			_		_	-	_	_	1	-	1	

Therapeutic misadventures

According to the International Statistical Classification, Nos. E950–E959, which deal with therapeutic misadventures and late complications of therapeutic procedures, are not to be used for primary death classification if the condition for which the treatment was given is known. Accordingly, deaths from therapeutic misadventure can be analysed only by secondary tabulation.

It is, however, necessary to define what is meant by a therapeutic misadventure, as opposed to any complication arising after treatment. For example, pulmonary embolism following an operation is met with on death certificates, but would not be regarded as a therapeutic misadventure. It is not always easy for cause of death coders to decide whether cases should be classed as therapeutic misadventures, and therefore they are instructed to enter in record books the cause of death in any case where treatment has had an untoward result. Even so it is possible that some cases may be missed.

A special analysis by secondary tabulation has been made of all the deaths since 1954 finally judged to have been due to therapeutic misadventures. The cases have been grouped under four headings so as to show the nature of the misadventure, with the following results:

would make a consider	Number of deaths						
Fatal therapeutic misadventures due to:	1954–56 (annual average)	1957–58 (annual average)	1959	1960			
(i) adverse reaction to drug or therapy (Table CIX, page 214)	101	132	136	150			
page 219) iii) overdose of drug (Table CX, page 218)	4 96	100	3 127	1 117			
(iv) accident in technique (Table CXII, page 219)	30	54	68	59			

Deaths from adverse reaction to drug or therapy have increased from an annual average of 101 during 1954–56 to 150 in 1960, while deaths due to accidents in technique have increased from 30 to 59. Deaths from an overdose of drug have also increased from 96 to 117.

The number of deaths due to the administration of the wrong drug has been very small each year since the analysis began for the 1954–56 period, when there were 4 deaths; for 1960 the number of deaths due to this cause has decreased to one. A high proportion of deaths from an overdose of drugs occurred through the taking of aspirin or some form of barbiturate: one which can be bought freely and the other which is known to be frequently prescribed. It is possible that some of these deaths may be suicides but because of insufficient evidence of intent they could not be so certified. Such considerations should be taken into account in connection with the Tables CIX and CX.

In the following tables the agents are as described by the coroner and no attempt has been made to amalgamate synonymous terms.

Table CIX. Fatal therapeutic misadventures due to adverse reaction to drug or therapy, 1960, England and Wales

Drug or therapy	No. of cases	Nature of adverse reaction	Terminal complication if different from preceding column
Acetarsol	1	Arsenical poisoning	R is, however, necessary to
Adrenalin	1	Acute left ventricular failure	ego as univelpi andodes
Amidopyrine	1	Agranulocytosis	distoit a ea bathagar ad some
Amphetamine	1	Haemorrhagic encephalopathy	misatventanos, and therefor
Antibiotic therapy	1	Acute diarrhoea	Peripheral circulatory failure
Anticoagulant	6		5 smos 1891 pluisson si at us
street out the te	1	Duodenal ulcer	Acute haemorrhage
dvenques. The	1	Extensive mesenteric haem- orrhage	Intestinal obstruction
editing anutan ad	1	Haemorrhage from lung, gastro-intestinal tract, kidney	Coronary thrombosis
	1	Parenchymatous gastro- intestinal haemorrhage	The same and the same of the s
	1	Prolonged bleeding	Heart failure
	1	Spontaneous retroperitoneal	
		haemorrhage	
Aspirin	1	Anaphylactic shock	Enal theraneura misolanum
Busulphan	1	Agranulocytosis	Hypostatic pneumonia
Butozolidin	4	the state of the state of	stall at animate smale ()
981 3861	1	Agranulocytosis and thrombocytopenia	(Table CIX, page 214)
	3	Aplastic anaemia	Purpuric cerebral haemorrhage
THE PERSON NAMED IN CO.			(1 case)
Chlorambucil	3		Cerebral haemorrhage (1 case)
	2	Agranulocytosis	Self sound
	1	Aplastic anaemia	
Chloramphenicol	4	Aplastic anaemia	Septicaemia (1 case)
Chloramphenicol	Toring!	CT OF STOP MOTE BASE	
and blood transfusion	1	Intestinal haemorrhage	Acute myocardial failure
Chloromycetin	3	Aplastic anaemia	Bronchopneumonia (1 case) Pneumonia (1 case)
Chlorpromazine	5	and the contract of the contra	Theumoma (Tease)
The second second	1	Agranulocytosis	
Erino do esemie	1 1	Hepatic failure Hepatitis	Pyelitis and cystitis
HOLDIN SELO TEURI	1	Hypertensive reaction	Cerebral arteriosclerosis
Colorestond Action	1	Liver failure	
Corticosteroids	8		
ALCO TO THE OWNER OF THE OWNER OF THE OWNER OWNE	1	Acute adrenal insufficiency	Million and Santana Action of the Paris
L. C. L. DREEK	1 1	Acute gastric ulcer Acute peptic ulcer	Haematemesis Shock
en banersand ne	1	Adrenal failure	SHOCK THE PROPERTY OF THE PARTY
	1	Adrenal insufficiency	Cardiac failure
	1 2	Intestinal perforation colon	A cuto branchitic (1)
	2	Suprarenal failure	Acute bronchitis (1 case)

Table CIX—continued

Drug or therapy	No. of cases	Nature of adverse reaction	Terminal complication if different from preceding column
Cortisone	6		
	1	Adrenal insufficiency	honyinydearine T Appr
	1	Hypertension	Bronchopneumonia
	1	Osteoporosis	Bronchopneumonia
	2	Perforated duodenal ulcer	Carcinomatosis (1 case)
- t	1	Pelvic venous thrombosis	Pulmonary embolism
Delta-	_	ne anacraia	perculorate Aplas
Butozolidin	2	A14	Dranchannoumania
	1	Agranulocytosis	Bronchopneumonia Terminal bronchopneumonia
	1	Aplastic anaemia and agranulo-	Terminar bronchopheumoma
D'. 1	2	cytosis	commone Peptu
Dindevan	3	Hamamhaga from a gostria	
	1	Haemorrhage from a gastric	
	1	Retroperitoneal haematoma	
	1	Cerebral haemorrhage	INTERA L
	1	Celebiai naemormage	
Electro-convulsive			
therapy	1	Acute cardiac failure	Table to the second sec
merapy	1	Acute cardiae fandre	Glara F. F. F.
Estopen	1	Vagal inhibition	
Estopen	1	vagar minorion	A SECTION OF THE PROPERTY OF T
Heparin	1	Retroperitoneal haematoma	
Ticpaini	1	Retropertioned incomatoma	
Imferon	1	Anaphylactoid shock	Children by the state of the st
mineron	1	7 maphy factora shock	Carlo de la carlo
Insulin	4	DESCRIPTION OF STREET TO HOME	The state of the s
mount	2	Hypoglycaemia	Left ventricular failure (1 case
	_	11) pogly cucinia	Coronary thrombosis (1 case)
	1	Insulin coma	
	1	Shock, cardiac failure	1000
	and the same		
Largactil	1	Hepatic failure	
		The state of the s	
Largactil,	benomin	relation tibusia of lone Corn	
chloram-	Ton a sil		-3k09 Z
phenicol	1	Agranulocytosis	100
	tour law	edianon numera William Ceres	7209
Mersalyl	3	mary theorem Acute	mlu97 E
	1	Acute renal failure	
	1	Acute retention	Uraemia
	1	Ventricular fibrillation	
maileding	מפעיו פו	or influencesion and Pulm	Purul .
Mustine therapy	1	Agranulocytosis	Bronchopneumonia
	ush pilled	Intelligence of the second	all and the second
Mysoline	1	Aplastic anaemia	ib483
- oncilmon	ned Ine	topic (Fire and to see a second to the secon	P. I.
Nardil	1	Hypermania	Exhaustion
Triplered anibites;	Don all	ion, morronis of bladder L Lines	D
Nitrogen mustard	1	Agranulocytosis	Pyaemia
therapy		ion nephritis	BORA COLOR
Daniallin amorta	2	ton pseumestis accounting not	HORSE CO. L. Colonia Colonia Co.
Penicillin	2	Anaphylactoid shock	ADEA .
	1	Anaphylaxis Anaphylaxis	THE REAL PROPERTY OF THE PARTY
	1	Anaphylaxis	The state of the s
Panicillin ource	Neger He	STATE OF THE PARTY	BAND STORY OF THE PARTY OF THE
Penicillin, aureo- mycin and	MEN ALL	ary analogist ' Coro	10/2005
Darenthin	1	Agranulocytosis	Bronchopneumonia
Darchulli	1	Agranulocytosis	Dionenopheumoma
Phenylbutazone	2	Aplastic anaemia	STATE STATE
1 Hellyloutazone	4	Apiastic anacilla	

Table CIX—continued

Drug or therapy	No. of cases	Nature of adverse reaction	Terminal complication if different from preceding column
Radium	1	Vesicovaginal fistula	Pyelonephritis
Solprin	1	Gastric haemorrhage erosion	
Steroid and aspirin therapy	1	Gastric erosions	Severe haematemesis
Streptomycin, P.A.S. and Isoniazid	1	Aplastic anaemia	
Succinylsulpha- thiazole	1	Anaphylaxis	
Sulphonamide	2 1 1	Agranulocytosis Aplastic anaemia	
TEM	1	Agranulocytosis	Bronchopneumonia
Thiotepa	2 1 1	Agranulocytosis Aplastic anaemia	Carcinomatosis
Thorotrast	1	Cirrhosis of liver	Massive gastro-intestinal haem- orrhage
Transfusion	7 1	Acute tubular necrosis of kidneys	Renal failure
	1 1 2	Anaphylactic shock Blood transfusion jaundice Homologous serum hepatitis	Congestive cardiac failure Acute yellow atrophy of liver (1 case) Cirrhosis of liver (1 case)
	1 1	Reaction to albumin transfusion Shock due to transfusion reaction	Chimosis of aver (2 case)
Tretamine	1	Agranulocytosis	Bronchopneumonia
Triethanolamine	1	Agranulocytosis	The second section is a second
Drug therapy	5 1 1 1	Anaphylactic shock Aplastic anaemia Leukaemia and thrombo- cytopenia	Carcinoma of ovaries
Inhalant	1	Mediastinal abscess (Paraffinoma)	Bronchopneumonia
Injection	1	Suppurative arthritis	Purulent pericarditis
Total cases	150	terment and termination of	on settings or the army where to

Table CX. Fatal therapeutic misadventures due to overdose of drug, 1960, England and Wales

7 7 7		5 5			8	, 4100	
		Cases	Spring Spring Spring			Cases	PEC 9
Drug or combination of drugs	Medically administered	Self administered	Administra- tion not stated	Drug or combination of drugs	Medically administered	Self administered	Administra- tion not stated
Amphetamine Amytal Anadin Aspirin Aspirin and alcohol Aspirin and barbiturate Barbiturate Barbiturate Barbiturate and alcohol Barbiturate and amphetamine Barbiturate and paraldehyde Barbituric acid Bidormal Carbrital Carbrital and Sodium Amytal Carbromal and phenobarbitone Cephos Dindevan Disipal and Stelazine Insulin Medamin		1 2 7 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1	1 1 5 - 1 14 4 - - 3 1 1 1 1 1 2 1	Morphia	1	1 1 1 1 - 5 1 2 1 2 1 2 1 2 1 2 1 3 1	1 2 1 1 5 5 5 2 1 1 1 4 4 1 1 61

Table CXI. Fatal therapeutic misadventure due to mistake in drug administration, 1960, England and Wales

Therapeutic misadventure associated with	Nature of misadventure
Tretamine	Medically administered Wrongly administered, should have been Tetracyn

Table CXII. Fatal therapeutic misadventures due to accident in technique, 1960, England and Wales

Therapeutic misadventure associated with	rendra	Nature of misadventure
Air embolism 6 o	cases	Air embolism following blood transfusion under pressure for hysterectomy for retained placenta. Air embolism occurring whilst under anaesthetic and operation for carcinoma of skull and scalp. Air embolism, recent hysterectomy. Air embolism, recent phlebotomy, ulcerative colitis with ileostomy. Air embolus, tear of hepatic vein, operation for repair of hiatus hernia. Cerebral oedema following air embolism, operation for trigeminal root.
Apparatus	200.0	Electrocution during operation for simple cyst of lung.
Infection 6	cases	Acute liver failure. Syringe transmitted jaundice. Gas gangrene of abdominal wall, surgical relief of intestina obstruction, carcinoma of rectum. Gas gangrene of right thigh following injection for heart block. Respiratory paralysis due to tetanus following extraction of teeth Toxaemia and septicaemia due to non-haemolytic streptococcudue to extravasation of infected urine from injuries to bladde wall which occurred during an operation for repair of inguina hernia. Uraemia, ascending pyelonephritis, infection of bladder due to catheterisation, following injuries received in road accident.
Instruments 25 Aortography Biopsy Bronchoscopy Cystoscopy Gastrectomy Mitral valvotomy	cases	Aortic wall damaged during aortography. Intra peritoneal haemorrhage, biopsy wound in liver, hepaticirrhosis and primary carcinoma of liver. Haemorrhage due to rupture of an artery in left lung durin bronchoscopy for diagnosis of carcinoma in the lung. Renal failure due to bilateral pyelonephritis due to pelvic cellulitidue to perforation of prostatic urethra during cystoscopy. Intra abdominal haemorrhage, associated with gastrectomy Portal vein divided, repaired later (duodenal ulcer). Circulatory failure due to haemorrhage from torn auricle.

Packs, swabs, etc.

Therapeutic misadventure associated with	Nature of misadventure
Instruments—continued	in the state of th
Nephrectomy	Severe haemorrhage, injury inferior vena cava, nephrectomy for hypernephroma of right kidney.
Oesophagoscopy	Empyema due to rupture of oesophagus, oesophagoscopy for carcinoma of the stomach. Empyema thoracic due to perforation of oesophagus during
Halle in rectnique 1960	oesophagoscopy. Mediastinal haemorrhage due to perforation of oesophagus. Mediastinitis, perforated oesophagus.
	Pleural effusion due to perforation of oesophagus. Pulmonary collapse due to perforation of the oesophagus. Septic peritonitis, perforation of the stomach wall by oesophageal
Pneumonectomy	tube. Cardiac failure. Injury to the heart. Pneumonectomy for carcinoma of the lung.
Prostatectomy	Intestinal obstruction, operation for ruptured urine bladder, due to prostatectomy.
Sigmoidoscopy	Trauma from sigmoidoscopy for diverticulitis, bronchopneumonia, paralytic ileus.
Tracheotomy	Spinal compression associated with respiratory obstruction occurring during tracheotomy.
Miscellaneous	Acute mediastinitis following accidental perforation of a cancerous growth in the oesophagus. Congenital heart disease (pulmonary stenosis). Clot in the right atrium attributable to cardiac catheterisation. Insufflation of blood, haemorrhage from ulcer caused by tracheotomy tube in treatment of tetanus. Pelvic abscess due to perforation of the rectum during a barium enema for investigation of symptoms due to diverticulitis of the descending colon. Peritonitis due to traumatic perforation of small bowel, traumatic rupture of uterus, resulting from diagnostic curettage for post menopausal bleeding. Pulmonary collapse following surgical emphysema due to erosion of the trachea by a tracheotomy tube. Vagal inhibition due to rectal perforation due to enema for impacted faeces.
deedling 5 cases	Acute lobar pneumonia accelerated by haemorrhage into the bronchi due to puncture of lung during therapeutic aspiration of the pleural cavity. Haemopericardium due to needle puncture of dilated left auricle during pericardial paracentesis, mitral regurgitation due to rheumatic valvular disease of the heart. Haemorrhage due to rupture of the pleural adhesions during artificial pneumothorax. Haemorrhage into pericardium, puncture of coronary vein, attempted pericardial aspiration for effusion. Intraperitoneal haemorrhage due to needle biopsy of liver.
acks, swabs, etc	Acute intestinal obstruction due to inflammatory adhesion of the small intestine to a swab following operation for suspected appendicitis.

Table CXII—continued

Therapeutic misadventure associated with	Nature of misadventure
Post-operative repair 5 cases	Haemorrhage into right pleural cavity due to slipping of ligature on stump of right pulmonary artery following pneumonectomy for carcinoma of lung. Intraperitoneal haemorrhage due to giving way of ligature following partial gastrectomy for duodenal ulcer. Intrathoracic haemorrhage due to slipped ligature of pulmonary artery following pneumonectomy for carcinoma of the lungs. Shock and haemorrhage due to slipped ligature following hysterectomy. Shock, severe haemorrhage. Operation for varicose veins Slipping of ligature from left saphenous vein.
Transfusion 3 cases	Acute pulmonary oedema, death due to accidental excess of blood transfusion, tonsillectomy. Pulmonary embolism, post infusional thrombosis of forearm vein Pulmonary oedema following operative removal of haemangio blastoma of the cerebellum. Incompatible blood transfusion during the course of a surgical operation.
Urethrography	Anaphylactic shock.
Other misadventures 6 cases	Cerebral infarction due to atrial septal defect due to foreig material entering the circulation from the extra corpored circulation during operation for atrial septal defect. Haemorrhage from a surgically severed and unligatured branch of the right pulmonary artery following pneumonectomy for pulmonary tuberculosis. Haemorrhage from the left atrium following removal of left lumfor carcinoma. Internal haemorrhage due to puncture of internal iliac artery due to repair for prolapse. Post-hypothermic shock after ligation of cerebral aneurysm. Mitral stenosis causing arterial emboli of legs. Therapeut paravertebral injection entered main vessel and death was due to haemorrhage.
Total 59 cases	\$100 0 000 TO \$ 2 50 D \$ 5 500 BEST

Deaths in institutions

In Table CXIII deaths registered in England and Wales in 1960 are analysed by cause of death and the type of place where death occurred. Of the 526,268 deaths registered, 279,148 (53 per cent) took place in institutions of one kind or another. The proportionate distribution per 1,000 deaths in 1960 compared with six years previously was as follows:

	1960	1954
Psychiatric hospitals \begin{cases} N.H.S \\ non-N.H.S \\ \\ \\ \\ \\ \\ \\ \\ \\ \	30	· 26
Other hospitals and institutions for the sick N.H.S non-N.H.S.	442	379
for the sick non-N.H.S.	27	27
Other institutions	30	27
At deceased's own home	420	495
Other private house, etc	50	45
Total	1,000	1,000

The percentage of institutional deaths has increased over the six years from 46 to 53.

There were 100,169 deaths assigned to neoplasms in 1960, of which 54,861 (55 per cent) occurred in either general or psychiatric hospitals; 1,224 (1 per cent) in other institutions; 41,358 (41 per cent) in the deceased person's own home and 2,726 (3 per cent) elsewhere.

Once again arteriosclerotic and degenerative heart disease was the principal cause of death in psychiatric hospitals, followed by pneumonia and vascular lesions affecting the central nervous system.

Table CXIII. Deaths by cause and sex according to type of institution, etc., in which they occurred, 1960, England and Wales

District of the separate systems and the separate systems of the separate syst	510-553 510-553 510-553 510-553	Total	deaths	Psy	chiatric	hospita	als		her hospi institution e care of	ns for			her utions	persor	ceased i's own	private	ther houses other
Cause of death	ICD No.	E 628	780	N.I	H.S.	Other N.F		N.I	H.S.		r than H.S.	363	78A 130	ho	me	pla	ces
CHEST STREET OF BANK		М	F	М	F	М	F	М	F	M	F	М	F	M	F	M	F
All causes	410-410-	269,172	257,096	6,458	9,279	137	270	123,291	109,546	4,671	9,561	6,346	9,589	113,327	107,682	14,942	11,169
Infective and parasitic diseases Tuberculosis of respiratory system. Tuberculosis, other forms	001–138 001–008 010–019 020–029	3,762 2,342 160 623	1,868 763 170 321	148 51 9 56	83 25 6 27	3 1 —		2,301 1,435 122 293	1,153 469 137 117	30 12 5 2	20 5 3 4	38 17 1 11	25 2 1 8	1,155 788 20 229	527 246 21 140	87 38 3 32	60 16 2 25
Gonococcal infection and other venereal diseases Infectious diseases commonly arising in the intestinal tract	030–039 040–049 050–064	29 40 148	2 41 125	2 5	- 5 2	-	_	24 26 109	1 26 100	- 1 1		- - 1	3 2	5 11 24	1 5 15	_ 8	
Spirochaetal diseases, except syphilis Diseases attributable to viruses Typhus and other rickettsial diseases Malaria Other infective and parasitic diseases	070-074 080-096 100-108 110-117 120-138	10 344 1 3 62	389 - - 56	24 = 1	17 =		1 11 11	10 240 1 2 39		-8 -1	-6 - 2		_9 _ _		76 - - 22	$-\frac{3}{3}$	_ 9
Neoplasms	140-239	53,392	46,777	532	624	13	18	27,677	22,376	1,372	2,249	552	672	22,535	18,823	711	2,015
Malignant neoplasm of buccal cavity and pharynx	140–148	1,120	666	12	8	1	_	459	301	57	45	31	20	548	262	12	30
Malignant neoplasm of digestive organs and peritoneum	150–159	19,023	18,440	203	231	5	9	9,091	8,125	502	897	230	282	8,696	7,999	296	897
Malignant neoplasm of respiratory system	160–165	19,759	3,441	153	40	3	_	10,014	1,871	413	135	135	38	8,768	1,225	273	132
genito-urinary organs	170–181	6,903	18,098	58	238	1	5	3,722	8,205	239	976	107	265	2,697	7,663	79	746
unspecified sites Neoplasms of lymphatic and haema-	190–199	2,954	2,902	51	53	2	_	1,774	1,638	89	114	39	43	978	921 625	21 19	133
topoietic tissues	200–205 210–229 230–239	3,020 356 257	2,462 546 222	26 18 11	23 19 12	<u>-</u>	2 2 -	2,161 258 198	1,677 408 151	61 7 4	61 12 9	8 2	17 6 1	744 65 39	82 46	6 5	17 3
Allergic, endocrine system, metabolic, and nutritional diseases Allergic disorders	240–289 240–245 250–254 260 270–277	2,133 528 99 1,193 121	4,111 684 646 2,366 151	53 12 6 25 7	113 13 21 59 11		1 - - 1	1,225 184 53 799 78	2,308 254 346 1,470 93	27 6 — 18 2	69 13 7 42 4	20 5 1 11 2	70 6 14 42 3	754 297 38 317 30	1,442 355 238 719 34	54 24 1 23 2	108 43 20 34 5
Avitaminoses, and other metabolic diseases	280–289	192	264	3	9	_	_	111	145	1	3	1	5	72	96	4	6

	March of the control	ICD	Total	deaths	Ps	ychiatri				ther hospi institution ae care of	ns for			her	person	cceased n's own	private and	other houses other
	Cause of death	No.	32.3	100	N.	H.S.	Other N.I	than H.S.	N.	H.S.		er than H.S.			l la	, mic	pla	ices
	Neoplasts of lympastic and nacmi- topolatic distres	300-305	M	F	M	F	M	F	M	F	M	F	M	F	М	F	М	F
	Diseases of the blood and blood-forming organs	290–299	777	1,248	10	26	1		510	750	11	25	13	36	223	384	9	27
	Mental, psychoneurotic, and personality disorders	300-326	401	642	120	102			13000	1 1 1 1 1 1	1 213		l sta	16	250	1352	E STAR	115
	Psychoses Psychoneurotic disorders Disorders of character, behaviour,	300–320 300–309 310–318	298 14	643 534 39	129 100 2	193 171 6	3	77	151 122 8	280 240 15	7 6 —	20 16 3	42 42	28 25	63 27 4	107 69 15	6 1	8 6
	and intelligence	320–326	89	70	27	16	3	-	21	25	1	1	1-00	3	32	23	5	2
2	Diseases of the nervous system and sense organs	330–398	33,644	48,191	821	1,087	23	46	16,640	21,451	780	2,300	1,502	2,400	13,208	19,404	670	1,503
	nervous system Inflammatory diseases of central	330–334	31,006	45,216	674	908	22	40	15,156	19,795	719	2,131	1,401	2,276	12,420	18,612	614	1,454
	nervous system Other diseases of central nervous	340–345	703	818	16	22	-	1	501	569	19	32	24	31	138	153	5	11
	system	350-357	1,791	1,988	129	151	1	6	864	964	42	133	76	90	629	606	50	38
	ganglia	360–369 370–379 380–389 390–398	29 2 19 94	69 4 34 62	- - 2	2 1 - 3	_	=	26 2 18 73	55 2 27 39	=	- 1 1	=	_ _ 1 2	$-\frac{3}{1}$	10 1 5 17	= 1	E
	Diseases of the circulatory system Rheumatic fever	400–468 400–402 410–416	100,244 61 2,469	98,319 64 4,652	2,989	4,556 3 87	57 —	145 -3	32,084 34 1,153	30,201 38 2,244	1,443	3,560	2,692 	4,521 1 84	52,994 25 1,102	50,357 21 1,959	7,985 2 116	4,979 1 185
	heart disease Other diseases of heart Hypertensive heart disease Other hypertensive disease Diseases of arteries Diseases of veins and other diseases	420–422 430–434 440–443 444–447 450–456	76,064 6,019 4,678 3,123 6,428	66 194 7,479 6,616 3,407 7,814	2,356 95 207 79 164	3,495 123 342 137 259	40 1 1 - 14	96 2 5 6 31	21,076 2,942 1,659 1,338 2,901	17,253 3,273 1,992 1,159 2,878	1,037 102 60 50 141	2,513 252 207 95 368	2,031 172 123 73 242	3,287 323 280 126 387	42,445 2,549 2,447 1,404 2,730	35,864 3,227 3,483 1,734 3,591	7,079 158 181 179 236	3,686 279 307 150 300
	of circulatory system	460-468	1,402	2,093	55	110	1	2	981	1,364	20	35	19	33	292	478	34	71
	Diseases of the respiratory system Acute upper respiratory infections. Influenza Pneumonia Bronchitis Other diseases of respiratory system	470–527 470–475 480–483 490–493 500–502 510–527	34,833 68 553 11,818 18,997 3,397	22,122 57 545 12,525 7,488 1,507	1,178 — 14 808 260 96	1,644 3 16 1,378 185 62	26 - 15 7 4	28 2 - 20 5 1	16,819 32 101 7,320 7,812 1,554	10,050 22 79 6,746 2,521 682	417 6 174 184 53	557 — 13 330 157 57	985 2 22 396 516 49	1,035 3 34 570 377 51	14,645 32 385 2,868 9,789 1,571	8,197 27 375 3,235 3,955 605	763 2 25 237 429 70	611 — 28 246 288 49

Diseases of the digestive system. Diseases of bucaci cavity and oeso- Diseases of the stomach and duo- denum: Separation of the st																			
Disease of the stormach and duo- Appendicitis			530-587	8,002	7,414	132	148	-	2	6,444	5,575	143	164	82	82	1,124	1,314	77	129
denum		phagus	530-539	106	154	4	17	_	-	77	100	2	3	3	5	19	24	1	5
Other diseases of intestines and peritone-gailblaider and peritone-gailblaider and peritone-gailblaider and principle of the properties of the peritone-urinary system (500-58) (5.59) (2.088) (2.8) (5.59) (2.088) (2.8) (5.59) (2.088) (2.8) (5.70) (2.088) (2.10)		denum							_	2,670			33	34	28				
Diseases of liver, galiblaider and panetess 1,947 2,998 43 55 - 2 1,561 1,842 39 60 21 24 263 456 20 59		Hernia of abdominal cavity					12		二					7	5				6
Diseases of the genitorinary system. Secondary 1,599 2,088 28 36 1,241 1,176 37 47 15 18 221 378 17 39		peritoneum	570-578	1,947	2,498	43	55	_	2	1,561	1,842	39	60	21	24	263	456	20	59
Nephritis and nephroxis			580-587	1,559	2,088	28	36	_	_	1,241	1,576	37	47	15	18	221	378	17	33
Other diseases of urinary system. Diseases of male genital organs. Diseases of breats, ovary, Fallopian tube and parametrium. CASO-620-620-11-34 - 2 1 1 30 1								4						101	49			73	
Diseases of breast, ovary, Fallopian tube and parametrium		Other diseases of urinary system	600-609	1,459		38	62		4	1.121		29	41	22	26	234		14	
Tube and parametrium		Diseases of male genital organs Diseases of breast, ovary, Fallopian	610–617	3,356		56	-	3	-	2,542	5 The Co.	86	-	58		577		34	E-E
Deliveries and complications of pregnancy, childbirth, and the puerperium 640-689 310 2		tube and parametrium	620–626	1	34	-	2		-	1	30	-	-	-	1		1	1 - 4	35
pregnancy, childbirth, and the purpersim Complications of pregnancy . 640-649 . 99			630–637	1-	153	- B	4	-	-	-	127	-	5	-	-	-	13		4
Delivery without mention of complications of pregnancy 640-649			EALO EDE							1 300	A 23 15							1. 1.84	
Abortion Delivery without mention of complication Complication Delivery without mention of complication Complication Delivery without mention of complication Complication Complication Objective with specified complication Complications of the puerperium 680-689 11		puerperium		=			-2		_			=		_	=	E			15 2
Delivery with specified complication Complications of the puerperium. 670–678		Abortion	650-652	-	62	10000	-		-	-	41			-	-		14	=	_ 7
Diseases of the skin and cellular tissue Infections of skin and subcutaneous tissue		plication											2			1 0 100	15	1 3.0	3
Diseases of skin and subcutaneous tissue	22	Complications of the puerperium		I			1			工物		1-14	2	-	1-89	-18		-15	3
tissue	5		690-716	170	294	4	19	_	4	131	190	3	9	3	12	28	54	1	6
Diseases of the bones and organs of movement		tissue	690–698	72	88	3	13	-	3	56	51	2	5	1	4	9	9	1	3
movement 720–749 661 1,334 10 18 1 399 713 14 63 16 41 220 489 2 9 Arthritis and rheumatism, except rheumatic fever			700–716	98	206	1	6	_	1	75	139	1	4	2	8	19	45	1-13	3
Arthritis and rheumatism, except rheumatic fever			720 740	(61	1 224	10	10		1	200	713	14	63	16	41	220	489	2	9
Osteomyelitis and other diseases of bone and joint		Arthritis and rheumatism, except	世紀 一五郎	1 1 1 1 1 1	1 3 38														5
Other diseases of musculoskeletal system		Osteomyelitis and other diseases of							1									1	1
System							4	-	-			2					The state of		
Certain diseases of early infancy		system	740–749	125	73	3			1-										- 45
Ecertain diseases of early infancy		Congenital malformations	750–759	2,696	2,426	34	39	3	6		,		NO.						
tions of the newborn			760–776	5,698	3,822	29	11	Till	1,000	5,182	3,515	94	52	4					MESTE
infancy 770–776 2,342 1,699 9 5 — — 2,197 1,609 40 24 — 1 80 30 10 10 10 Symptoms, senility, and ill-defined conditions 780–795 2,435 4,873 75 268 1 6 793 1,271 49 231 230 529 1,210 2,413 77 155 Symptoms referable to systems or organs 780–789 88 99 — — — — 48 46 1 3 4 4 3 2 3 4 2 3 3 4 4 5 3 2 3 3 4 4 5 3 3 3 4 4 5 3 3 3 4 5 3 3 5 3 3 5 3 5		tions of the newborn	760–769	3,356	2,123	20	6	_	-	2,985	1,906	54	28	4	4	4	LOW WILL	L Diss	
conditions <th< td=""><td></td><td></td><td>770–776</td><td>2,342</td><td>1,699</td><td>9</td><td>5</td><td>ic Irrel</td><td>110</td><td>2,197</td><td>1,609</td><td>40</td><td>24</td><td>-</td><td>1</td><td>80</td><td>50</td><td>16</td><td>10</td></th<>			770–776	2,342	1,699	9	5	ic Irrel	110	2,197	1,609	40	24	-	1	80	50	16	10
Symptoms referable to systems or organs 780–789 88 99 — — — 48 46 1 3 4 4 32 42 3 4 4 151			780-795	2,435	4.873	75	268	1	6	793	1,271	49	231	230	529	1,210	2,413	77	155
		Symptoms referable to systems or				_			_	48		1		4		32			
						75	268	1	6			48	228	226	525	1,178	2,371	74	151

tions of the newborn Other diseases peculiar to early infency Securities, and Hi-defined	IOD	Total o	deaths	Psy	chiatri	c hospit	als	S 124 (18)	her hospi institution e care of	ns for		Otl		At dec		private	other houses
Cause of death	ICD No.	2,698	785	N.H	I.S.	Other N.H		N.H	I.S.	Other N.H		institu	itions	hor			other aces
Character of proceedings (1981)	740-719	М	F	M	F	M	F	М	F	М	F	М	F	М	F	М	F
Accidents, poisonings, and violence (external cause) Railway accidents Motor vehicle traffic accidents Motor vehicle non-traffic accidents Other road vehicle accidents Water transport accidents Aircraft accidents Accidental poisoning by solid and liquid substances Accidental poisoning by gases and vapours Accidental falls Other accidents Complication due to non-therapeutic medical and surgical procedures. Therapeutic misadventure and late complications of therapeutic procedures Late effects of injury and poisoning Suicide and self-inflicted injury Homicide and injury purposely inflicted by other persons (not in war) Injury resulting from operations of	E800-E999 E800-E802 E810-E825 E830-E835 E840-E845 E850-E858 E860-E866 E870-E888 E890-E994 E910-E936 E940-E946 E950-E959 E960-E965 E970-E979 E980-E985 E990-E999	4 136 3,058	9,619 28 1,881 8 46 6 - 253 560 3,559 1,078 4 3 31 2,054	169 1 13 1 6 - 60 45 5 38	331 13 1 - 5 - 235 49 - - 4 24	3 	2 	5,909 53 3,024 43 85 31 3 57 55 1,435 609 3 4 77 388	5,091 7 1,269 4 36 — 102 58 2,763 446 4 2 14 368	82 1 26 2 1 1 1 2 2 1 29 9 -	115 -13 -	53 1 1 - - 1 18 11 - - - 1 16 4	71	2,992 2 19 2 8 - 2 110 347 187 459 3 - 46 1,765	2,636 — 18 2 1 — 127 458 343 329 — 1,286 62 —	4,295 162 1,593 29 20 136 45 20 60 177 1,171 — — 3 844	1,373 21 568 2 8 6 — 19 42 67 243 — 1 368

Mortality analysis by method of certification

Table CXIV shows the number of deaths in 1960 for 46 groups of causes analysed according to the basis of the diagnosis of the cause of death, whether by a certifying medical practitioner, coroner's certificate or uncertified. Of a total of 526,268 deaths, 83,239 (16 per cent) were registered on the basis of a coroner's certificate after inquest or on the results of a post-mortem examination ordered by a coroner, without an inquest. In 73,579 (88 per cent) of these deaths a post-mortem was held.

Of the 441,424 deaths registered on a certificate from a medical practitioner, post-mortem examinations were made in 41,590 cases (9 per cent). There were 1,605 uncertified deaths, i.e. deaths where no doctor could give a certificate usually because there was no doctor in attendance during the last illness and the coroner did not think it necessary to hold an inquest or order a post-mortem examination; 1,087 of such deaths were assigned to arteriosclerotic and degenerative heart disease. The percentage distribution in 1960 compared with that in 1954 was:

Coroner:		1960	1954
Inquest, with post-mortem		3.2	3.3
Inquest, no post-mortem	*. 223 .S	1.8	1.8
Post-mortem without inquest		10.8	8.3
Certifying medical practitioner:			
After post-mortem	ng	7.9	9.1
Operation mentioned on certificate		1.7	2.1
Other examination mentioned		0.1	0.1
No examination mentioned		74.2	74.8
Uncertified	- 979 5	0.3	0.5

Noteworthy variations are an increase in the proportion of deaths registered on a coroner's certificate after a post-mortem without inquest and a decrease in the proportion registered on diagnosis by a certifying medical practitioner after post-mortem.

For young children whose deaths were assigned to birth injuries, postnatal asphyxia and atelectasis (ICD Nos. 760–762) the proportion certified after post-mortem was 52 per cent, and for those assigned to infections of the newborn (ICD Nos. 763–768) 66 per cent.

Table CXIV. Deaths by cause and sex, according to method of certification, 1960, England and Wales

		Town Town					Coron	er	777-00			Ce	rtifying	, medi	cal pr	actitio	oner	2		
	Cause of death	ICD No.	Total o	leaths		Inquest	held		Pomor	tem	Afi		Operamenti	oned	Otl exa inat me	m- ion	N			certi- ed
		No.			With		No p		with inqu		post-m	ortem	on d certif		tione	don	menti		078	
		1 0 0 0	М	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
	All causes	199	269,172	257,096	10,471	6,119	5,683	3,977	34,740	22,249	23,188	18,402	4,615	4,362	206	153	189,296	201,202	973	632
	Tuberculosis of respiratory system	001–008 010–019 020–029 040 045–048	2,342 160 623 2 15	763 170 321 — 21	102 4 6 -	= 4 = 1	36 2 1 —	1111	378 27 182 — 5	90 18 130 —	252 64 95 2 2	96 69 43 —	25 3 9 —	22 5 1 —	REFERE		1,547 60 327 —	550 78 146 —	_2 _3 _	1 -1 -1
228	Scarlet fever and streptococcal sore throat Whooping cough Meningococcal infections	050, 051 056 057	10 20 46	13 17 49	= =	= 1	=		4 2 24	6 1 21	1 3 6	2 3 19	111			_	5 15 15	5 13 8	1	
	Acute poliomyelitis	080 085 100–108 110–117 Rem. 001–138	19 13 1 3 508	4 18 — 492	_ 1 30	= = 10	_ _ _ _ 18	1 	- 1 - 1 84	2 4 — 63	$-\frac{6}{1}$	_ 2 _ =	= 1		10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		10 11 1	2 11 —		
	Malignant neoplasms	140-205	52,779	46,009	276	56 10	94	27	2,023	1,224	5,550	126 3.943	2,617	3,116	169	118	254 42,035	286 37,512	15	1 13
	Benign and unspecified neoplasms Diabetes mellitus	210-239	613	768	16		4	2	87	133	142	194	35	74	2	3	327	352		
	Anaemias Vascular lesions affecting central nervous	290–293	1,193 593	2,366 1,066	5 3	4 4	2		64 32	86 59	134 101	234 144	32 2	57	1	1	956 452	1,980 856	_1	5
	system	330–334 340	31,006 209	45,216 160	112	41	37 1	21	1,965	2,667 34	1,504 76	1,702 57	9	_ 5	_3		27,308 89	40,697 68	68	83
	Rheumatic fever	400–402 410–416	61 2,469	64 4,652	6 28	- 9	12	8	21 429	9 574	13 289	24 496	<u></u>	- 60		-1	21 1,687	31 3,499	_3	- ₅
	disease Other diseases of heart Hypertension with heart disease Hypertension without mention of heart Influenza Pneumonia Bronchitis	420–422 430–434 440–443 444–447 480–483 490–493 500–502	76,064 6,019 4,678 3,123 553 11,818 18,997	66,194 7,479 6,616 3,407 545 12,525 7,488	433 36 25 28 5 56 247	73 9 8 3 3 32 24	163 12 6 9 4 29 88	29 1 2 1 - 10 6	18,951 293 529 631 92 1,720 1,694	8,616 196 493 612 56 1,341 704	3,232 377 297 282 25 1,377 1,149	2,400 351 285 192 16 1,077 386	19 2 4 1 - 2 8	11 7 1 3 - 2 1	9 1 - 1 - -	7 = - - 3	52,560 5,274 3,803 2,168 427 8,619 15,781	54,668 6,903 5,815 2,593 469 10,039 6,359	697 24 14 3 — 15 30	390 12 12 3 1 21 8

	Ulcer of stomach and duodenum Appendicitis	540,541 550–553 560, 561, 570 543, 571, 572 581 590–594 610	3,165 367 1,452 1,015 685 2,005 3,259	1,540 271 1,599 1,481 587 1,709	48 10 35 8 27 10 23	12 7 17 15 18 3	20 1 13 4 12 4 13	3 3 9 6 6 6 1	581 70 351 180 77 112 221	298 41 364 216 55 133	879 101 362 262 195 303 432	405 65 372 336 167 254	343 49 191 79 10 	124 47 191 94 8 3	-	$-\frac{2}{5}$ $\frac{1}{1}$ $\frac{1}{-}$	1,288 136 499 481 361 1,575 1,882	696 108 640 812 332 1,311	$ \begin{bmatrix} -1 \\ -1 \\ 1 \\ -1 \\ 1 \\ 1 \end{bmatrix} $	1 1 4
	Complications of pregnancy, childbirth, and the puerperium	640–689		310	-1	52	_	17	_	122	_	57	-	8				54		_
	Congenital malformations	750–759	2,696	2,426	20	16	3	7	468	345	816	654	67	57	2	2	1,317	1,341	3	4
	Birth injuries, postnatal asphyxia and atelectasis	760–762 763–768	2,749 524	1,753 318	15 5	4 2	2 4	2 2	166 100	113 51	1,245 239	789 157	_3	Ξ	_1	=	1,308 174	842 105	9 2	3 1
	Other diseases peculiar to early infancy, and immaturity unqualified	769–776	2,425	1,751	8	4	1	1	50	35	535	364	3	1	-	-	1,820	1,339	8	7
	Senility without mention of psychosis, ill- defined and unknown causes	780–795 Rem. 140–795	2,435 18,955	4,873 22,436	40 485	23 161	15 179	6 79	28 2,935	87 3,112	13 2,678	33 2,859	388	- 436	_ 6	8	2,323 12,248	4,708 15,750	16 36	16 31
	Motor vehicle accidents	E810-E835	4,754	1,889	3,137	1,279	1,606	609	4	_	2	-	1	-	_	_	3	1	1	
	All other accidents	{ E800-E802 } E840-E962 }	5,510	5,567	3,186	2,756	2,079	2,419	99	129	24	24	3	24	1	-	103	208	15	7
	Suicide and self-inflicted injury	F E963	3,059	2,054	1,885	1,379	1,161	666	10	8	1	-	-	-	-		1	1	1	
220	Homicide and operations of war	E970–E979 { E964, E965, { E980–E999 }	180	109	105	78	47	30	9	8 8	1	-	-	-	-	-	18	1		

Medical enquiries—additional information

Medical certificates of cause of death are commonly issued very soon after death occurs. If post-mortem investigations are in progress but have not been completed by the time of certification, valuable information may be lost unless some procedure exists for collecting it later. In England and Wales a certifying doctor can in these circumstances initial panel B on the back of the certificate to indicate that he "may be in a position later to give, on application by the Registrar General, additional information as to the cause of death for the purpose of more precise statistical classification". When a certificate so initialled is received a letter is sent to the certifier within two or three days, reminding him of his original certification and asking whether he wishes to confirm or revise it. A revised certification is used only to amend the statistical classification of the cause of death; the entry in the register of deaths contains the original certification.

About 25,000 of these letters are sent each year and about 20,000 replies are received, of which rather more than half confirm the original assignment and the remainder amend it. In the December quarter of 1960 there were 5,078 replies: 1,944 confirmed the original certification without adding any additional information, 1,024 provided further information which did not change the assignment, and the remaining 2,110 amended the classification of the cause of death. Table CXV lists the results of these replies for the most significantly affected categories of cause of death. The first column shows the number of cases in which the cause was confirmed, the second column the number of additional deaths assigned to the category, the third the number of deaths provisionally assigned to the category on the basis of the original certification but finally assigned elsewhere. The final column shows the total number of deaths assigned to the category during the quarter, to give scale to the results.

For some categories (e.g. ICD No. 420) a large number of changes has a negligible net result, but there is a worthwhile gain in precision resulting from the transfer to more definite assignments of deaths provisionally classified to "secondary" categories (e.g. ICD Nos. 156, 433, 434.1, 434.4 pt. Cor pulmonale), "ill-defined" categories (e.g. ICD Nos. 776, 780–795), and "other and unspecified" categories (e.g. ICD Nos. 153.8, 199, 230–239, 340.3, 527.2, 578, 583, 586, 593, 754.5, 759.3).

Occasionally, additional information is obtained through this procedure about venereal disease, alcoholism and mental disorder. Replies resulting in assignment to these conditions were scrutinized.

In the December quarter 1960 there were none for mental disease, one for alcoholism and 16 for syphilis. Of the latter it appeared that 6 provided information not known at the time of certification, but in 2 cases certainly, and in a further 8 probably, the procedure had been used where the certifying doctor was reluctant to mention the cause on a document accessible to other persons. As this affected 10 deaths from syphilis out of a total of 240 during the quarter, it appears that, without this procedure for reporting additional details, syphilis might be understated by about 4 per cent.

Table CXV. Information available after certification: effect on some causes of death, December quarter, 1960, England and Wales

death, December quar	ter, 1900, .	England	and was	es	
Cause of death	ICD No.	Diag- nosis con- firmed	Increase	De- crease	Total deaths in quarter
Pulmonary tuberculosis	002 003–019 020–029	31 6 3	18 16 16	11 3 6	781 95 240
Malignant neoplasms of stomach of large intestine, specified parts of large intestine, unspecified part of biliary passages and liver (primary) of liver (secondary and unspecified) of lung, bronchus and trachea of kidney of brain and other parts of nervous	140–205 151 153.0–.3 153.8 155 156 162, 163 180	765 94 19 10 12 7 203 17	494 39 29 9 29 1 141 18	439 62 8 26 6 16 69 5	25,171 3,556 2,000 222 373 157 5,689 339
system of other and unspecified parts	193 199	19 21	22 20	6 114	440 414
Neoplasms of lymphatic and haematopoietic tissues Benign neoplasms Neoplasm of unspecified nature of brain and other parts of nervous	200–205 210–229 230–239	84 11 9	38 21 —	23 4 47	1,359 233 111
system	237	6	Jilli—, ad	29	81
Cerebral haemorrhage Cerebral embolism and thrombosis Other and ill-defined vascular lesions	331 332	118 90	37 66	107 65	7,585 9,729
affecting central nervous system	334	16	11	19	1,774
Meningitis, with no organism specified as cause	340.3	5	2	12	32
Arteriosclerotic heart disease, including coronary disease Other myocardial degeneration Functional disease of heart Congestive heart failure Cor pulmonale Other and unspecified hypertensive heart disease	420 422 433 434.1 434.4 pt.	421 24 9 31 6	175 21 4 12 1	173 31 17 56 12 20	25,282 12,353 1,321 1,576 230 2,933
General arteriosclerosis	450	27	10	21	2,961
Aortic aneurysm, non-syphilitic, and dissecting aneurysm	451 465 466	15 26 15	30 50 55	2 31 13	746 412 343
Pneumonia Bronchitis	490–493 500–502 526 527.2	177 140 9	127 83 18 1	157 78 6 8	6,660 8,258 480 44
Ulcer of stomach	540 541	36 16	40 35	28 10	671 535
Other diseases of intestines and peritoneum	578 581 583 584	6 19 3 5	5 20 2 14	21 5 12 1	79 331 35 183
Cholecystitis and cholangitis, without mention of calculi	585	7	4	9	134
	a baccasso		Manager of	A STATE OF THE STA	1

Cause of death	ICD No.	Diag- nosis con- firmed	Increase	De- crease	Total deaths in quarter
Other diseases of gallbladder and biliary ducts Nephritis, not specified as acute or chronic Infections of kidney	586 593 600	2 5 20	3 1 34	11 12 21	40 93 532
Congenital malformations of circulatory system, specified parts	754.04, } .6, .7 754.5 757 759.3	13 15 11 7	33 8 18	7 30 3 7	250 300 146 51
Intracranial and spinal injury at birth Postnatal asphyxia and atelectasis Pneumonia of newborn	760 762 763 776	35 61 9 35	49 55 25 2	30 49 8 66	382 642 196 751
Symptoms, senility and ill-defined conditions	780–795	2	1	21	1,893

Live births, stillbirths and stillbirth rates by age and parity of mother and place of confinement

In England and Wales in 1960 there were 785,005 live births and 15,819 stillbirths. The tables which follow give details of the distribution of these births by place of confinement, and age and parity of mother.

A set of tables is available for reference at the General Register Office showing numbers of live and still births with a breakdown as in Tables 002 and 003 for individual county boroughs and administrative counties within England and Wales. Copies of these tables, or of tables for particular areas, can be obtained from the General Register Office on payment.

Table CXVI. Births by place of confinement, 1960, England and Wales

Note. Institutions described as "Other hospital" are mainly maternity homes

Place of confinement	Live births	Stillbirths	Total births	per ce	births nt by ce of ement*	per	rth rate 1,000 births*
N.H.S. hospital	477,710	12,912	490,622	61 · 3	(60.7)	26.3	(27·3)
Other hospital	26,916	270	27,186	3.4	(3.5)	9.9	(11.3)
At home	263,508	2,423	265,931	33.2	(33.5)	9.1	(10.5)
Other	16,871	214	17,085	2.1	(2·3)	12.5	(13.0)
Total	785,005	15,819	800,824	100	0.0	19.8	(20.8)

^{*} The figures in brackets are the corresponding figures for 1959.

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Table CXVII. Live births by age and parity* of mother and place of confinement, 1960, England and Wales

Note. Institutions described as "Other hospital" are mainly maternity homes

52-34 · · · · · · · · · · · · · · · · · · ·			10					Parity o	f mother		1				9	
Age-group	31	()			1-	-3		1	4 and	l over	35		То	otal	
	N.H.S. hospital	Other hospital	At home	Other	N.H.S. hospital	Other hospital	At home	Other	N.H.S. hospital	Other hospital	At home	Other	N.H.S. hospital	Other hospital	At home	Other
All ages	251,017	11,502	45,338	8,204	196,306	14,400	188,507	8,337	30,387	1,014	29,663	330	477,710	26,916	263,508	16,871
Under 25	145,195	6,438	26,819	6,263	49,246	3,270	48,610	3,851	733	28	820	16	195,174	9,736	76,249	10,130
25–34	91,641	4,597	16,294	1,816	114,322	9,077	118,420	4,144	14,823	565	17,098	192	220,786	14,239	151,812	6,152
35 and over	13,777	442	2,078	110	32,504	2,041	21,175	326	14,791	420	11,690	120	61,072	2,903	34,943	556
Not stated	404	25	147	15	234	12	302	16	40	1	55	2	678	38	504	33

^{*} Parity in this instance means the number of previous liveborn children.

Table CXVIII. Stillbirths by age and parity* of mother and place of confinement, 1960, England and Wales

Note. Institutions described as "Other hospital" are mainly maternity homes

									Parity of	mother							
Age-group				0			1-	-3			4 and	over			To	tal	
		N.H.S. hospital	Other hospital	At home	Other	N.H.S. hospital	Other hospital	At home	Other	N.H.S. hospital	Other hospital	At home	Other	N.H.S. hospital	Other hospital	At home	Other
All ages		6,233	151	632	142	5,288	109	1,379	63	1,391	10	412	9	12,912	270	2,423	214
Under 25		3,022	73	333	74	960	17	284	24	36	_	10	2	4,018	90	627	100
25 24		2,563	64	204	34	3,006	69	782	32	573	2	186	3	6,142	135	1,172	69
25 and over		588	10	66	7	1,308	22	310	7	776	8	214	4	2,672	40	590	18
Not stated	 	60	4	29	27	14	1	3		6	-	2	_	80	5	34	27

^{*} Parity in this instance means the number of previous liveborn children.

Table CXIX. Percentage distribution of births for each place of confinement within each age and parity* group, 1960, England and Wales

Note. Institutions described as "Other hospital" are mainly maternity homes

	2,363	1	7.30	1	200e	9	1965	Parity of	mother		186		P 192	133	1,173	1 48
Age-group	6.230	121	0	44	5,289	1-	-3	100 m	130E	4 and	lover		12,912.4	⟨To	otal	100
	N.H.S. hospital	Other hospital	At home	Other	N.H.S. hospital	Other hospital	At home	Other	N.H.S. hospital	Other hospital	At home	Other	N.H.S. hospital	Other hospital	At home	Other
All ages	79	4	14	3	49	3	46	2	50	2	47	1	62	3	33	2
Under 25	79	3	15	3	47	3	46	4	47	2	50	1	68	3	26	3
25–34	80	4	14	2	47	4	47	2	46	2	51	1	57	4	38	1
35 and over	84	3	12	1	59	3	37	1	56	2	42	_	62	3	34	1
Not stated	65	4	25	6	43	2	52	3	43	1	54	2	55	3	38	4

^{*} Parity in this instance means the number of previous liveborn children.

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Table CXX. Stillbirth rates per 1,000 total births, by age and parity* of mother and place of confinement, 1960, England and Wales

Note. Institutions described as "Other hospital" are mainly maternity homes

				STATE.	, 1961	Hard Street	1'816	19370	0.033 1	valeto 1	Parity of 1	mother	7,02	753 76.52	10105	330,786 1	(fa,239 -	151,812	6.152
Ag	ge-grou	ıp		51,611	TEXE !	0	8.204	30000 I	17 100 1-	-3	P7332	30.387	4 and	l over	170	77,710	То	tal	16,871
				N.H.S. hospital	Other hospital	At home	Other	N.H.S. hospital	Other hospital	At home	Other	N.H.S. hospital	Other hospital	At home	Other	N.H.S. hospital	Other hospital	At home	Other
All ages	Suprair 100			24	13	14	17	26	8	7	8	44	10	14	27	26	10	9	13
Under 25				20	11	12	12	19	5	6	6	47	-	12	111	20	9	8	10
25-34			اند	27	14	12	18	26	8	7	8	37	4	11	15	27	9	8	11
35 and over				41	22	31	60	39	11	14	21	50	19	18	32	42	14	17	31
Not stated				129	138	165	643	56	77	10	-	130	_	35	-	106	116	63	450

^{*} Parity in this instance means the number of previous liveborn children.

Table CXXI. Stillbirth rates per 1,000 total births, by parity* of mother and place of confinement, 1960, England and Wales, standard regions and Wales

Note. Institutions described as "Other hospital" are mainly maternity homes

#### B I A B B	100			YEL ST					1	Parity of	f mother				B. 7.6	10.00	0, 4 0 20 de 1			
			0					1–3				4 8	and ove	r				Total		
Area	N.H.S. hospital	Other	At home	Other	Total	N.H.S. hospital	Other hospital	At home	Other	Total	N.H.S. hospital	Other hospital	At home	Other	Total	N.H.S. hospital	Other hospital	At home	Other	Total
23 ENGLAND AND WALES	24	13	14	17	22	26	8	7	8	17	44	10	14	27	29	26	10	9	13	20
Standard regions: Northern East and West Ridings North Western North Midland Midland Eastern London and South Eastern Southern Wales (including Monmouthshire) Wales I (South East) Wales II (remainder)	27 26 26 28 25 24 20 23 24 29 30 27	11 20 17 7 15 20 9 9 17	18 13 19 10 15 10 13 11 13 20 19 30	18 13 17 14 15 10 32 19 15 10 5 24	24 23 25 23 23 21 19 19 22 26 26 27	30 29 30 29 32 29 20 21 23 28 30 25	6 6 8 7 12 7 9 9 4 3 3	8 7 7 9 8 6 6 6 6 6 6	7 7 7 5 4 1 8 6 18 16 12 10 17	18 17 19 17 18 15 14 13 15 21 21	62 45 48 51 45 41 38 33 36 36 37 32	 -12 -40 6 11 11 26 -	14 14 12 15 16 16 14 12 12 11 19 19 18	91 53 54 — 16 — 37 18 43	35 30 30 32 29 26 27 23 25 28 29 26	31 29 29 30 29 27 21 23 24 29 30 27	8 12 12 7 14 12 9 9 11	11 9 10 10 10 8 8 7 8 14 13 16	13 11 11 9 8 9 20 18 16 12 8 18	22 21 22 21 21 18 17 16 18 24 23 24

^{*} Parity in this instance means the number of previous liveborn children.

Vital statistics

Table A1 of Part II shows the population, with figures for the constituent countries, of Great Britain at each census beginning with that of 1801 and of Great Britain and Ireland since the first census was taken in Ireland in 1821. This table also gives the population estimates for each mid-year from 1921. Figures for Northern Ireland and the Irish Republic relate throughout to the areas now so named.

Table W of Part II gives current *home* population data with marriage, live birth, death and infant mortality rates. These are repeated in Table CXXII below where they are compared with similar rates for 1938 and for the three five-year groups 1946–50, 1951–55 and 1956–60. For death rates the comparison is with 1931–38 instead of 1938 alone, for the reason given in footnote (5) to the table.

Table CXXII. Vital statistics: 1938 and 1946 to 1960, Great Britain and Ireland

		Great Britain and Ireland	England	Wales	Scotland	Northern Ireland	Irish Republic(1)
		Estimated m	id-year home	population	(in thousan	ds)	
1960 { Mal Fem Pers	nales	26,696 28,521 55,217	22,347 20,779 43,126	1,338 1,291 2,629	2,506 2,702 5,208	692 728 1,420	1,428 1,406 2,834
		in account	Marri	ages(2)			
1960 Persons marryin per 1,000 livin		409,090	324,273	19,341	40,101	9,881	15,494
1938 1946–50 1951–55		16·8 17·1 15·6	17·6 17·7 15·9	16·2 17·4 15·7	15·5 16·9 16·3	13·4 13·9 13·5	10·1 11·0 10·8
1956–60 1960		15·1 14·8	15·3 15·0	15·0 14·7	16·1 15·4	13·5 13·9	10·8 10·9
			Live bir	ths(2)(3)		200	
1960 Per 1,000 living		979,016	740,858	44,147	101,292	31,989	60,730
1938 1946-50 1951-55 1956-60 1960		15·7 18·5 16·0 17·0 17·7	15·1 18·0 15·3 16·4 17·2	15·3 17·9 15·7 16·2 16·8	17·7 19·8 17·8 19·1 19·4	20·0 22·0 20·8 21·7 22·5	19·4 22·2 21·3 21·1 21·4

⁽¹⁾ For the Irish Republic, rates are based on *home* population throughout the table. The 1960 figure is "as at early April".

Table CXXII—continued

and the second second second	US SUPE						APPENDING NAME OF THE PARTY OF
		Great Britain and Ireland	England	Wales	Scotland	Northern Ireland	Irish Republic(1)
Kepublic	DITE	ion	Dea	iths(4)			
1960 Per 1,000 living 1931–38(5) 1946–50 1951–55 1956–60 1960		635,988 12 · 4 11 · 9 11 · 8 11 · 6 11 · 5	493,553 12·0 11·7 11·6 11·5 11·4	32,715 12·9 12·6 12·7 12·4 12·4	61,764 13·3 12·5 12·1 12·0 11·9	15,296 14·4 11·9 11·3 10·8 10·8	32,660 14·2 13·3 12·5 11·8 11·5
	Infai	nt mortality	(deaths of in	fants under	one year of	`age)(6)	
1960 Per 1,000 live bit 1938 1946–50 1951–55 1956–60 1960	rths	22,438 55 39 29 24 23	16,001 53 36 27 22 22 22	1,117 57 42 33 27 25	2,673 70 47 33 28 26	870 75 48 37 28 27	1,777 67 57 40 33 29

⁽⁴⁾ The death rates are based on total deaths and home populations, except that (apart from the Irish Republic) the 1946–49 element in the 1946–50 aggregates is based on civilian deaths and civilian populations.

Population. The home population of Great Britain and Ireland at mid-1960 was estimated to be 55,217,000 (or slightly under if we stress the date of the Irish Republic estimate and assume the slight decline on earlier figures to have continued). This was an increase of 3.8 per cent on the 1951 Census population of 53,186,000. But this increase in the two islands as a whole was by no means uniform throughout the constituent parts. These showed population increases of: United Kingdom, 4.3 per cent; England and Wales, 4.6 per cent (England, 4.8 per cent; Wales, 1.2 per cent); Scotland, 2.2 per cent; Northern Ireland, 3.6 per cent. The population of the Irish Republic, however, declined in the period to 95.7 per cent of its 1951 Census figure. Of the five countries England alone (and hence England and Wales and the United Kingdom) showed a population increase greater than the figure for excess of births over deaths in 1960.

Marriage rates. The fall in the marriage rates for Great Britain and Ireland was arrested in 1960 when it was the same as in 1959—14·8 per thousand, after being 15·2 in 1957 and 14·9 in 1958. Though the rate for Scotland fell from 15·6 in 1959 to 15·4 in 1960 it was still the highest of the separate rates for the five countries, just as the increased rate in the Irish Republic from 10·7 in 1959 to 10·9 in 1960 did not raise it from the bottom of the list. England retained her 1959 rate in 1960 and those for Wales and Northern Ireland rose slightly over their 1959 figure.

⁽²⁾ The marriage and live birth rates for 1938 and from 1951 are based on *home* population, but the 1946–50 aggregates (except for the Irish Republic) are based on *total* populations.

⁽³⁾ England and Wales: occurrences. Remainder: registrations.

⁽⁵⁾ Here the 1931-38 aggregate is given, since crude death rates in the year 1938 were rather lower than in adjacent years.

⁽⁶⁾ England and Wales: for 1957 onwards based on deaths per thousand live birth occurrences; for earlier years based on deaths per thousand related live births. Remainder: based on deaths per thousand births registered.

Birth rates. The live birth rate (which had been $17 \cdot 1$ per thousand in 1958 and 1959) rose to $17 \cdot 7$ for Great Britain and Ireland in 1960, reflecting an increase in all five individual countries, where the respective rates per thousand living persons were:

Year	England	Wales	Scotland	Northern Ireland	Irish Republic
1958	16.4	16.2	19·2	21.6	20.9
1959	16.5	16.1	19.1	21.9	21.1
1960	17.2	16.8	19.4	22.5	21.4

However, the rates in England and Wales still remained, as always, significantly lower than those in Scotland and Ireland.

Infant mortality rates. In 1960 Great Britain and Ireland together again achieved a new low level with an infant mortality rate of 23 per thousand live births, after rates of 25 in 1956 and 1957, and 24 in 1958 and 1959, bringing the rate for the five-year period 1956–60 to 24 per thousand compared with 29 in the previous five years and 39 in 1946–50. The rate for England persisted at 22 per thousand and there was a slight fall in the somewhat higher rates for Wales, Scotland and Northern Ireland. The outstanding feature of the separate figures for the five countries in 1960 was the fall of the infant mortality rate in the Irish Republic from 32 in 1959 to 29 per thousand live births in 1960. Scotland and Northern Ireland both had a higher infant mortality rate than the Irish Republic in 1938, but by 1957 they had improved to the rate the Republic achieved in 1960.

Cause of death. Table 7 of Part I gives a complete analysis for England and Wales of deaths by cause and sex at all ages for each year from 1950 to 1960. In 1959, Appendix A of Part I (Standardised Mortality Ratios, age specific death rates and infant mortality rates from selected causes) covered England and Wales, Scotland and Northern Ireland, and some of this information was repeated, together with data for the Irish Republic, in this section of Part III. For 1960, Appendix A of Part I includes the Irish Republic as well as England and Wales, Scotland and Northern Ireland.

INTERNATIONAL CO-OPERATION IN POPULATION AND HEALTH STATISTICS

United Nations

Population Commission

The Commission meets in alternate years and did not have a session in 1960. The 1959 Commentary includes an account (pages 224–5) of the Commission's tenth session.

Commission on the Status of Women

The fourteenth session of the Commission was held in Buenos Aires from the 28th March to the 14th April. The United Kingdom was represented by Miss Ruth Tomlinson.

As reported in the 1959 Commentary (pages 225–6) one of the matters discussed at the previous session was a draft Convention on age of marriage, consent to marriage and the registration of marriages. This subject was referred back to the Commission at the fourteenth session, when two reports by the Secretary-General were presented: one was a document giving a brief factual account of current practice in different countries based on the replies of forty-four governments to a questionnaire¹, the other a draft Convention and a draft Recommendation² prepared in accordance with resolution 722B (XXVIII) of the Economic and Social Council.

The significance of variations in national practice shown by replies to the questionnaire was revealed in the diversity of opinion expressed during the Commission's deliberations and reflected in the summary of the proceedings incorporated in the Report³, the annexe to which contained a draft resolution in two parts proposed for adoption by the Council. The first part proposed that the General Assembly of United Nations should adopt, as an international instrument, a Convention of three articles: the first specifying a minimum age of marriage, the second requiring free and full consent of the parties to marriage and the third providing for compulsory registration by a competent authority. The second part of the draft resolution was in the form of a Recommendation to member states to take legislative or other measures to give effect to provisions identical to those of the Convention and an invitation to the General Assembly to endorse this Recommendation.

What the Commission did not do, in spite of the efforts of some of its members, was to get the views of member states on these proposals before they were submitted for adoption by the Economic and Social Council and the General Assembly. In the event the Council ruled⁴, in the following terms, that this should be done:

"The Economic and Social Council,

Having examined the drafts prepared by the Commission on the Status of Women on an international Convention and a recommendation on the minimum age of marriage, consent to marriage, and registration of marriages,

Requests the Secretary-General to transmit these documents to the Governments of Member States of the United Nations and members of the specialized agencies with a request that they submit any observations which they may wish to offer

- (a) on the question of whether a convention or a recommendation, or both, should be prepared, and
- (b) on the provisions of the drafts drawn up by the Commission, in time for the submission of such observations to the Commission at its Fifteenth Session."

Statistical Commission

The Statistical Commission again met in New York, on this occasion from the 20th April to the 5th May, for its eleventh session. Sir Harry Campion, Director of the Central Statistical Office, represented the United Kingdom, with Mr. J. Stafford, Director of Statistics at the Board of Trade, as alternate.

There was nothing unusual in the fact that the agenda ranged widely over the field of economic and social statistics, but at this session there was perhaps more emphasis on matters not directly concerned with finance. The customary review of recent and current activity in different parts of the world gave rise, in particular, to a reiteration of the need for publications on methodology related to national practices.

Under the specific head of social statistics the Commission recommended⁵ that the first issue of a proposed Compendium of Social Statistics should be for the year 1963 and be published so that it would complement the next Report on the World Social Situation due to be presented to the Economic and Social Council in that year. The Commission was brought up to date with further developments in the attempt to formulate international definitions and measurement of standards and levels of living and also noted that progress was being made in the evolution of standards relating to statistics of housing, notably in connexion with statistical indicators of housing needs and with statistical methods appropriate to under-developed countries.

The 1960 World Census Programme also had a prominent place in the Commission's discussions. In addition to the current reports on the census programme, the Commission was given the usual account of developments which had taken place in demographic statistics since the last report of the Population Commission.⁶ The Secretary-General was requested to inform a later session of the extent to which international recommendations based on principles of census taking first elaborated by the Population Commission had been fulfilled, with an indication of the extent of regional variations. He was also asked to complete the study of population registers and of methods of obtaining vital statistics in circumstances where conventional registration methods were not feasible. The Commission took note of work that had been done during the years 1958-59 on demographic statistics and was given an account of plans for three seminars: one on the appraisal and use of population census data in Asia and the Far East, another—in collaboration with WHO on the use of vital and health statistics for genetic and radiation studies (see page 243) and the third designed to enable statisticians in the Western Pacific to exchange information on vital and health statistics.

Conference of European Statisticians

The eighth session of the Conference was held in Geneva from the 26th to the 30th September. The United Kingdom was represented by Sir Harry Campion and by Mr. J. W. S. Walton of the Central Statistical Office.

One of the things which the Conference does is to encourage exchange of information between national offices responsible for the same kind of statistics. It is noted in the report⁷ on this meeting that a statement⁸ by the United Kingdom on proposals for the 1961 census was among the many which had been circulated in response to the invitation to members, made at the seventh session and renewed at this one, to furnish particulars of *census plans* and to report on their outcome.

The Conference also found scope for mutual aid in organizational and technical questions arising from use of the electronic computer and of automatic data processing. It was agreed to arrange a meeting of the Working Group on Electronic Data-Processing Machines in order to ventilate the problems of transition to the new methods, to look into what had been done already, to consider the feasibility of using these machines for different kinds of statistics and to advise on arrangements for the exchange of organigrammes, programmes and other schemes.

New processes encourage new ideas and both tend to introduce new words. Automatic data processing has already added much to the conventional language of statistics. New terms are apt to diminish international understanding and this is one reason for noting that the Conference continued, at this session, to show considerable interest in the compilation of lists of statistical terms in different languages.

Conference of Asian Statisticians

At the third session, held in Bangkok from the 5th to the 15th April, the Executive Secretary of the Economic Commission for Asia and the Far East was able to announce that progress reports, presented in a form which enabled direct comparison with *Principles and Recommendations for National Population Censuses*⁹, indicated that countries were making a genuine attempt to follow the international standards closely.

The Conference gave a good deal of time to considering every aspect of census-taking. Views were exchanged on what countries had actually done by way of preparation for the census—including pilot enquiries and pre-tests—and plans for processing the results were outlined in some detail.

Closely allied to these activities of the Conference was a seminar on the appraisal and use of census returns and statistics arranged by the United Nations in Bombay from the 20th June to the 8th July¹⁰. Thirty-eight participants from eighteen countries and territories in the ECAFE region were able to draw on experience wider than that provided by those who actually conducted the seminar because, in addition to those prepared by teachers and pupils, papers were contributed by experts in different parts of the world, e.g. by Mr. B. Benjamin of the General Register Office on demographic indicators of levels of living¹¹.

Economic and Social Council

The Council held two sessions during 1960: the twenty-ninth from the 5th to the 21st April in New York and the thirtieth from the 5th July to the

5th August in Geneva. Business outstanding from this last was dealt with at a resumed session on the 21st-22nd December in New York.

Elections to membership of the functional commissions were conducted at the April meeting. Belgium and the United Arab Republic were re-elected to the Population Commission and Ceylon, Mexico and Uruguay were the successful candidates for three other places which became vacant in that Commission at the end of 1960.

In the summer the Council accepted a number of reports, including those of the Statistical Commission and the Status of Women Commission to which reference has already been made.

World Health Organization

Thirteenth World Health Assembly

Mr. E. M. T. Firth, Registrar General, was a member of the United Kingdom delegation at the thirteenth World Health Assembly, held in Geneva from the 3rd to the 20th May.

In the report of the Assistant Director-General¹², there was an encouraging indication that other technical branches of the Organization were making increasing use of the services of the Division of Health Statistics. This is one aspect of the integration of an international secretariat—a process which inevitably takes time. Among special subjects mentioned was a study of accidents in childhood and the preparation of a manual on statistical methods applicable in malaria eradication campaigns for the use of malaria teams in different parts of the world.

The Regional Director for Europe was able to report that increased attention had been given to health statistics and epidemiology and that a special course on epidemiological and vital statistics would be arranged annually for some years to come.

Health statistics were mentioned by a number of delegates, mostly as a matter for technical assistance. The Assembly learned that 95 per cent of hospitals in Austria were taking part voluntarily in arrangements, started in July 1958, to get cancer statistics.

The Assembly was also made aware of the response to a resolution¹³ taken at the previous Assembly setting up a special account for medical research "to supplement the provision under the regular budget for an extension of the WHO's assistance in medical research programmes" and the Director-General was asked to keep the Executive Board currently informed of the amount of contributions received.

The Director-General reported that he had set up an Advisory Committee on Medical Research under the chairmanship of Dr. Arvid J. Wallgren (Sweden). The Committee met for the first time in October 1959.

Regional Committee for Europe

Sir John Charles, Chief Medical Officer at the Ministry of Health, was the United Kingdom representative at the tenth session held in Copenhagen from the 16th to the 20th August.

On the subject of tuberculosis, the Committee adopted a resolution¹⁴ requesting the Regional Director to encourage governments to use standardized methods in the presentation of statistics so that figures published in one country could be compared with those of another.

Vital and health statistics in genetic and radiation studies

Dr. W. P. D. Logan and Mr. B. Benjamin of the General Register Office took part in a seminar on the use of vital and health statistics in genetic and radiation studies held in Geneva from the 5th to the 10th September. The proceedings included a paper by Dr. Logan on the contribution of vital statistics to genetic and radiation epidemiology.

The meeting brought together specialists in different fields to consider what needed to be done and what it was feasible to do in the interests of genetic and radiation studies. The human geneticist and the radiation epidemiologist pointed to gaps in knowledge; the civil registrar and the population and health statisticians considered how they might be filled.

There were no formal resolutions. The report on the seminar took the form of a "Consensus of Opinion" (published as annexes to the two reports indicated in the next paragraph) on what was required and on how it might be got without any radical changes in current methods of civil registration and vital statistics.

The results of this seminar were reviewed later by the United Nations Scientific Committee on Effects of Atomic Radiation¹⁵ and by the WHO Expert Committee on Health Statistics¹⁸.

Expert Committee on Mental Health

Sir Kenneth Cowan, Chief Medical Officer for Scotland, was one of the rapporteurs at the tenth session held in Geneva from the 3rd to the 8th October.

In the chapter of the report¹⁶ dealing with research, the Committee drew attention to the need for agreement on the definition of psychiatric terms and on the classification of mental disorders as essential bases for comparable statistics. To this end the Committee suggested some of the criteria which a standard set of terms should fulfil and emphasized "that *some* form of counting and classifying cases must be agreed upon if the statistics are to be useful for scientific work". While recognizing that investigators might use another system if it served their own purpose better, "only the standard method would permit them to compare their work with the results of other studies".

Expert Committee on Health Statistics

The Committee's seventh session, held in Geneva from the 5th to the 10th December, was attended by Dr. Logan who presented a paper on morbidity statistics from general practice¹⁷ and was elected *Rapporteur*.

The report¹⁸ on the session opens with a detailed essay on *health and morbidity surveys*. This is in three parts: a general consideration of aims, definitions, and principles of selection; characteristics, potentials and limitations of the principal types of survey; and local health surveys, surveys of specific diseases and surveys in less-developed areas.

The Committee discussed preparations for the eighth revision of the *International Statistical Classification of Diseases, Injuries, and Causes of Death* and outlined a programme of meetings for each year to 1965 when the decennial revision conference is due to take place. Because of the interval since the last detailed revision in 1948 much has to be done before 1965. Even then manuals have to be prepared for publication in several languages so that they will be available in 1967, at least some months ahead of the beginning of 1968 when it is expected that the outcome of the eighth revision will be applied to national and international statistics. The Committee recommended "that adequate resources be available at all stages of the work in order to fulfil satisfactorily WHO's constitutional responsibility in this respect, and that no delay be incurred in preparing and effecting the Revision".

It was with satisfaction that the Committee noted that the WHO regional advisers on statistics were present at the meeting. This was the result of a recommendation made at the fifth session. The Committee indicated the need for a bibliography on health survey methods and left the regional advisers to consider the possibility of compiling it on a regional basis in the first instance. Hospital statistics (to be the main item of the Committee's agenda for 1962) and national committees on vital and health statistics were among other subjects discussed.

Epidemiology in Health Administration

The Regional Office in Europe arranged a seminar on the application of epidemiology in health administration. It was held at Opatija in Yugoslavia from the 16th to the 23rd September.

Starting from a definition of epidemiology as "the study of the distribution of disease, both communicable and non-communicable, and of the factors influencing the pattern of disease in different communities", the report¹9 emphasized that it is concerned ultimately with solving problems of causation so that health administrators can take preventive measures.

The treatment of the subject of the seminar was under three main heads: describing the distribution of disease, investigating hypotheses of causation, and assessing the efficacy of preventive measures. The first dealt with the traditional analysis of mortality, then with routine methods of measuring morbidity as exemplified in the notification of communicable diseases, reports from public health laboratories, hospital statistics, social insurance statistics, and special registers; it concluded with an examination of survey methods. The second, looking into causation, was demonstrated by reference to *ad hoc* inquiries into chronic respiratory disease, alcohol and cirrhosis, and cardiovascular disease. Controlled trials, as well as routine methods of assessment, were examined as means of appraising the efficacy of preventive measures.

Epidemiology of Mental Disorders

An Inter-regional Conference on Techniques of Surveys on the Epidemiology of Mental Disorders, held in Naples from the 6th to the 15th December, attracted twenty-four participants including Miss E. M. Brooke of the General Register Office.

The aim of the conference, a further stage in a programme inaugurated in 1958 jointly by the WHO, the Milbank Memorial Fund, the Medical Research Council (Great Britain) and the World Federation for Mental Health (see

1958 Commentary, page 199), was to make psychiatrists, health statisticians and public health officers of Southern Europe and North Africa better acquainted with the possibilities and technical difficulties of epidemiological studies²⁰.

Three subjects were discussed: first, sample surveys of prevalence, with special reference to the census method and the relationship of general demographic factors to mental health; secondly, surveys based on hospital populations, with special reference to problems of retrospective and prospective cohort studies, to the use of hospital populations for assessing the results of treatment, and to record-keeping and statistical procedure; and thirdly, studies of social influences on psychiatric pathology, with special reference to the epidemiological study of migrants.

Training in vital and health statistics

In concert with the Secretariat of United Nations, the WHO Regional Office for the Western Pacific had a course of training in vital and health statistics at Manila in the Philippines from the 17th October to the 25th November. Dr. Logan was a member of the teaching staff. In addition to local participants from the Philippines, forty-one students took part in the course.

International Classification of Diseases

Reference has been made already to preparations for the eighth decennial revision of the *International Statistical Classification of Diseases, Injuries, and Causes of Death* which is due to be completed in 1965 (page 244). On the 23rd and 24th of June progress in evolving a more satisfactory classification of cardiovascular diseases was reviewed in New York where representatives of the appropriate sub-committees of the Registrar General's Advisory Committee on Medical Nomenclature and Statistics compared notes with their American colleagues. Professor W. M. Arnott, Dr. S. L. Morrison, Dr. Logan and Mr. H. G. Corbett attended from this side of the Atlantic.

WHO Centre for the Classification of Diseases

The Centre continued under the direction of Dr. Logan, assisted by Mr. Corbett, during 1960. Further progress was made in the preparation of the instruction manual for coders and an analysis of differences in the coding of 6,000 causes of death by three different offices (in Canada, England and Wales and the United States) was completed.

Reports were submitted to the Director-General of WHO on a special diagnostic list prepared by the College of General Practitioners, on analysis of multiple causes of death and on the application of the International Classification of Diseases to morbidity studies by reference to (a) hospital in-patient enquiry, (b) mental health statistics and (c) cancer records.

Organization for European Economic Co-operation

Manpower Committee: Group of Demographic Experts

On the 27th September Mr. Benjamin was in Paris with the Group which met for the day to put final touches on a report ²¹ by Monsieur Louis Henry, of the Institut National d'Etudes Démographiques, whom it had invited to revise *Demographic Trends in Western Europe 1951–1971*²² in the light of replies to a questionnaire sent to member countries (see 1959 Commentary, page 230).

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The report²³, amended to take account of the views of the Group, was then submitted for the Manpower Committee's consideration. It was in two parts: the first on general survey of probable population development in member countries from 1956 to 1976, the second giving detailed figures for each country.

Fifth Conference of British Commonwealth Statisticians

The Prime Minister of New Zealand opened the Conference in Wellington on 7th November. Mr. J. V. T. Baker, the Government Statistician of the host country, was elected Chairman. Five government departments were represented in the United Kingdom delegation, which was led by Sir Harry Campion. The Conference held sixteen plenary sessions and ended on 18th November.

The report²⁴ showed that the agenda ranged widely over the field of official statistics. On the initiative of the West Indian representative there was a discussion on classifications of occupation and industry, and a paper on The 1961 Census of Great Britain stimulated interest in the use of the IBM 705 computer by the General Register Office. India presented a paper dealing mainly with innovations in the 1961 Census of India and another paper gave the Conference information on the 1960 Census of Ghana. Organizational problems on such different topics as training and exchanging staff, reducing the lag in the compilation of statistics and the use of electronic aids were among the administrative aspects of statistical work discussed at the Conference.

International Statistical Institute

The thirty-second session of the Institute took place in Tokyo from the 30th May to the 9th June²⁵. The programme included a meeting on the appraisal of censuses and sample surveys and another (jointly with the Biometric Society) on statistical methodology for medical research. Both meetings were well documented and the number of those who took part in the former was well above the average for sectional groups. An unusual contribution to this session was a paper²⁶ in which Monsieur Sauvy, foremost among French demographers, recorded his views on the statistician's duty in relation to public opinion and public policy. It was addressed primarily to those engaged in economic, demographic and social statistics properly so-called and was a synthesis of observations made in France during his long statistical career.

Other meetings

Conference on Congenital Malformations

The First International Conference on Congenital Malformations was held in London from the 18th to the 22nd July. It was attended by Dr. Logan.

Epidemiological and statistical pitfalls in investigating the causes of congenital malformations, the frequency of malformations and possible sources of variation in their incidence (e.g. the effects of maternal age, order of birth and season of year of birth) were among the subjects discussed.

London Conference on the Scientific Study of Mental Deficiency

Miss Brooke attended this Conference, held from the 24th to the 29th July in connexion with World Mental Health Year, at which papers were contributed from eleven countries and others were also represented. Biological, aetiological and epidemiological aspects of mental abnormality were among the matters discussed.

Visitors from Overseas

Those who came for periods of training at the General Register Office under various international and government schemes or who paid formal visits to discuss matters of common interest with the staff of the Office totalled seventy-one during 1960. They came from thirty-four countries.

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THE REGISTRATION SERVICE

Searches and certificates

Table T1 shows the growth in the registers at the General Register Office of births, deaths and marriages since 1866 and the extent to which the registers and indexes have been used in a series of years since then.

The number of searches undertaken in 1960 for government departments, mainly to verify ages of applicants for retirement pensions, at about 183,000 was only slightly less than in 1959. Apart from 1956, when there was a temporary increase due to the verification of the birth of persons entering at late ages into national insurance in 1948, there has been a steady downward trend from about 555,000 in 1951. This reflects the gradual accumulation of verified information in the records of the departments concerned. There were 227,544 searches in 1960 paid for by members of the public showing little change from 1959.

The total number of certificates issued at the General Register Office from the registers in 1960 increased slightly to 305,779, due to an increase in demand for adoption certificates. The total of all adoption certificates issued in 1960 was the highest since 1948. The issue of other forms of certificate was slightly lower in 1960 than in the previous year.

Re-registration of births of legitimated persons

If the parents of a child marry after the child's birth the marriage will in certain circumstances legitimate the child. In these cases the birth should be re-registered to show the child as a legitimate child of its parents. Under the Legitimacy Act, 1926, a child was not legitimated by the marriage of its parents if either of them was married to a third person when the child was born. The Legitimacy Act, 1959, which came into operation on 29th October 1959, removed this prohibition, and children to whom it had previously applied became legitimated persons on that date.

Before the Act of 1959 the average number of re-registrations had remained steady at about 2,500 annually since 1950. The first effects of the new provisions are reflected in the figures for the December Quarter, 1959, when the number of births re-registered showed an increase of 73 per cent over the corresponding quarter of 1958. In 1960, the first full year during which the new provisions were in operation, the number of re-registrations rose to 6,506. This is the highest figure recorded in any year since the re-registration of births of legitimated persons began in 1927. The numbers are, however, inflated by the fact that the new provisions affected people whose parents had married before the Act of 1959, as well as those whose parents married subsequently. About 70 per cent of the births which were re-registered in 1960 as a result of the new Act related to persons whose parents had married one another before the operation of the Act in October 1959, but who did not become legitimated until that date.

Adopted children

The number of entries in the Adopted Children Register since 1927, when the register began, is shown in Table T4 for groups of years from 1927 to 1950 and for each year since 1951. The slight increase which began in 1959 continued in 1960, when 15,099 adoption orders were registered.

The Adoption Act, 1958, which came into operation on 1st April 1959, introduced provision for the High Court and the County Courts to make provisional adoption orders. These orders confer authority on a person not domiciled in Great Britain to take a child out of this country for adoption. In 1960, the first full year of the operation of the Act, 207 provisional adoption orders were made.

Table T4 also shows the number of orders made by each type of Court. The proportion of orders made by the County Courts has risen steadily since 1927 and in 1960, for the first time, the number of orders made by these courts was greater than the number made by Courts of Summary Jurisdiction.

Table T5 analyses adoptions by the sex, age and legitimacy of the child and shows the number of children who were adopted by one or both of their natural parents. The table shows that in 30 per cent of all adoptions one or both of the adoptive parents were the natural parents of the child. This proportion is about the same as in 1959, but is lower than in earlier years, probably reflecting the fact that a number of children who might previously have been adopted are now legitimated by virtue of the Legitimacy Act, 1959.

Registration of births, deaths and marriages outside the United Kingdom

In the Registrar General's Statistical Review, Civil Text volume covering the years 1946–50 (page 164), information was given about the records received in the General Register Office for those years relating to births, deaths and marriages registered abroad. The following paragraphs give similar information for the ten years 1951–60.

Consular Registers

Registers of births and deaths in foreign countries of citizens of the United Kingdom and Colonies are maintained by British Consular Officers under the Registration of Births and Deaths (Consular Officers) Regulations, 1948, made by the Secretary of State for Foreign Affairs. The regulations provide for the deposit of certified copies of these consular records in the General Register Office.

Under the Foreign Marriage Act, 1892, marriages in foreign countries between parties of whom one at least is a British subject may be solemnized, and registered, by a British Consular Officer, or if celebrated according to local law in his presence may be registered by him. The Act requires these officers to maintain registers of such marriages and to send to the General Register Office certified copies of all entries in the registers.

The numbers of certified copies of birth, death and marriage entries received during the years 1951 to 1960 are shown below:

	Ye	ear	mao l	Births	Deaths	Marriages
1951	erete	Regi	5010	4,026	817	533
1952	Mirch	n and	20001	4,023	842	523
1953		30.0		4,021	831	519
1954				6,194	865	449
1955	0.81	olaive	44.54	6,244	900	408
1956	1 32	Loom	2 ,570	6,683	839	340
1957	10 3	ent or	10.150	6,362	721	369
1958	M	13013	to to A	6,647	774	332
1959				6,686	784	354
1960				7,801	874	392

The increase in the numbers of births registered from 1954 onwards was probably due to the fact that British troops in foreign countries were encouraged to make greater use of the facilities for consular registration.

Service Departments Registers

The Registration of Births, Deaths and Marriages (Army) Act, 1879, provided for the registration of births, deaths and marriages which occur outside the United Kingdom among members of H.M. land forces and their families. These facilities were extended to the Royal Air Force by the Air Force (Application of Enactments) (No. 2) Order, 1918, made under the Air Force (Constitution) Act, 1917. The Registration of Births, Deaths and Marriages (Special Provisions) Act, 1957, as applied by Order in Council, further extended the facilities by providing for the registration of births, deaths and marriages occurring outside the United Kingdom among members of the Royal Navy and their families and among, or among the families of, civilians in the service of the Crown accompanying any of H.M. Forces abroad. Provision was also made for the registration of deaths occurring abroad among, or among the families of, members of various welfare organisations connected with H.M. Forces and births and deaths occurring aboard H.M. Ships and Aircraft. The Act of 1957 came into operation on 1st April 1959, and applied to events occurring both before and after that date. Certified copies of all entries made in pursuance of these enactments in the Service Departments Registers are sent to the General Register Office. The numbers of certified copies received in the years 1951 to 1960 are shown below. The increased figures for 1959 and 1960 reflect the additional facilities introduced by the Act of 1957 and include registration of events which occurred in earlier years.

the re	role	Year	similar simo	Births	Deaths	Marriages
1951 1952 1953 1954 1955		heads	cors consistence of the consiste	4,822 4,720 4,679 4,696 4,950	1,045 895 873 745 576	1,430 1,183 1,166 1,225 1,126
1956 1957 1958 1959 1960	01 19 01 10 01 10 01 10	oe, ond is end it Com way a	ind ind ingline	5,590 5,647 5,858 6,832 8,891	660 504 436 447 543	1,049 1,096 1,012 1,165 1,265

Records kept under Foreign Marriage Orders in Council

Article 3 of the Foreign Marriage Order in Council, 1947, provided for the registration at the General Register Office of certain marriages solemnized abroad under Section 22 of the Foreign Marriage Act, 1892, which were not at that time registrable in the Army and Air Force Registers. Retrospective provision for the registration of most such marriages has now been included in the Order in Council made under the Registration of Births, Deaths and Marriages (Special Provisions) Act, 1957, and the provisions of Article 3 of the Foreign Marriage Order in Council, 1947, have, since 1st April 1959, been limited to marriages which were solemnized before that date and for the registration of which no facility exists under the Act of 1957. No such marriages have in fact been registered since 1958.

Article 6 of the Foreign Marriage Order in Council, 1947, provides that in the case of marriages solemnized according to local law in certain foreign countries without the presence of a British Consul, either party to the marriage, if he or she is a citizen of the United Kingdom and Colonies domiciled or resident in or originating from the United Kingdom, may arrange for an authenticated certificate of the marriage to be deposited in the General Register Office.

The numbers of marriages registered and marriage certificates received for deposit under the Foreign Marriage Order in Council, 1947, in the years 1951 to 1960 are shown in the following table:

tarina box : tayan a the	Year		Registration of marriages solemnized before 1.2.48	Registration of marriages solemnized after 1.2.48	Authenticated certificates of marriage
1951	Pro	bbolk	2	14	115
1952		THE STATE OF	THE RESERVE	7	76
1953	PAGE CH	MALCON	green statistics	3	83
1954	HR.M	16.4	1	2	79
1955	e biin	02:1	1	mener sensora a patrii	95
1956	30.com	900.b	2	and offer that	108
1957		(-16)	1	1	91
1958			-	2	111
1959		1200	A STAGE OF REL	DATE LEWIS .	81
1960	A ROTUS	1	ESTENSION OF THE PARTY OF	olod a -c ode as	97

Registers kept by British High Commissioners

Administrative arrangements have been made since 1950 for the registration by British High Commissioners of births and deaths taking place in certain Commonwealth countries among British subjects connected with the United Kingdom. The registration of births and deaths in India and Pakistan began in 1950. Births in Ceylon have been registered since 1957 and births in Ghana since 1959. Certified copies of the entries made in the High Commissioners' Registers are deposited in the General Register Office. In 1956 arrangements were introduced in respect of marriages in India and Pakistan whereby certificates of marriage authenticated by the High Commissioners may be deposited at the General Register Office in the same way as certificates may be deposited under Article 6 of the Foreign Marriage Order in Council, 1947.

The numbers of certified copies of birth and death entries and certificates of marriage received under these arrangements during the years 1951 to 1960 are shown below:

	Y	ear		Births	Deaths	Marriages
1951	48			822	51	
1952				677	52	-
1953		0		620	67	
1954				633	53	_
1955		10.		614	64	-
1956	DOM:	00013	MAR SE	573	65	68
1957	-	Total Control		1,017	51	82
1958	RECEIVE.			668	31	45
1959				702	39	36
1960				606	50	56

Marine Register Book

In accordance with the Merchant Shipping Act, 1894, masters of British ships, and of foreign ships carrying passengers to and from ports in the United Kingdom, are required to transmit to the Registrar General of Shipping and Seamen returns of all births and deaths occurring on board their ships. Certified copies of those records which are appropriate to be kept at the General Register Office are transmitted to the Registrar General. Similar returns were sent to the General Register Office from Captains of H.M. Ships up to 1st April 1959, under Section 37(6) of the Births and Deaths Registration Act, 1874. The returns received from these two sources constitute the Marine Register Book. Since 1st April, 1959, records of events occurring aboard H.M. Ships at sea are included in the returns received under the Registration of Births, Deaths and Marriages (Special Provisions) Act, 1957, which came into operation on that date.

Between 1951 and 1960 the following numbers of entries were made in the Marine Register Book:

	Y	ear		Births	Deaths
1951				177	975
1952				58	744
1953	10000			57	659
1954		PA ELON		67	576
1955		tolke eo	10.00	49	712
1956		Mar. In	mbar k	48	603
1957				50	543
1958				61	624
1959				51	525
1960				68	507

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Air Register Book of Births and Deaths

The Civil Aviation Acts require the Minister of Aviation to be informed of any birth or death occurring in a British civil aircraft and of any death occurring outside the United Kingdom of a traveller in such an aircraft who is killed on the journey as a result of an accident. Records of these events are kept in the Ministry of Aviation and a certified copy of each entry is sent to the Registrar General by whom they are preserved in the Air Register Book of Births and Deaths. Similar records are made in respect of persons who are reported missing and are believed to have died as a result of an accident to a British civil aircraft.

The numbers of entries received between 1951 and 1960 are as follows:

	7	/ear	Births	Deaths	Missing persons
1951			 a Prantis	1	1
1952			 The - North	38	13
1953		,	 _	47	44
1954			 1	61	35
1955			 rrate-to be	16	
1956			 magine in	78	diny son
1957		197		7	18 08 (2) (4)
1958			 32 -	74	4
1959			 -	55	The Table
1960			 	12	

THE NATIONAL HEALTH SERVICE CENTRAL REGISTER

The function of the National Health Service Central Register (which is maintained by the General Register Office on an agency basis for the National Health Service) is to ensure as far as possible that doctors' lists of National Health Service patients do not include persons who are no longer eligible to be on a particular doctor's list, e.g. because they have transferred to another doctor or because they have emigrated. The ways in which this can happen are broadly

- (a) that on transfer to another doctor there may be a failure to notify the original doctor or Executive Council on removal,
- (b) that a patient may be accepted as a new National Health Service patient when he is in fact already on a doctor's list,
- (c) that on emigration, death or enlistment into the Forces there may be a failure to remove a patient from his doctor's list.

The Central Register acts as a clearing house for sorting out cases where any of these circumstances might arise.

During the year 1960 the Central Register received notifications of 1,572,175 persons who were reported as having registered with doctors for the first time. By reference to the existing register it was found that 248,489 of these were already on doctors' lists and duplicate registrations in these cases were thus avoided.

The Central Register also notified Executive Councils of the names of 948,292 persons for removal from doctors' lists by reason of death (529,638), enlistment (106,260), embarkation (308,510), or becoming long-term patients in mental hospitals (3,884). It was not in fact possible for Executive Councils to remove from doctors' lists all the persons notified to them in this way because, in some cases, there were insufficient identifying particulars. In addition, 1,454,915 persons were notified as having changed their doctor on removal from the area of one Executive Council to another.

During the early months of the year work was completed on the cases where, in the course of the compilation of the new alphabetical index, it had been found possible to identify patients registered with more than one doctor (usually in different areas) and patients whose names should have been removed earlier from doctors' lists because of death, enlistment or embarkation. Approximately 18,000 cases in the first category and 53,000 in the second (19,000 deaths, 5,000 enlistments and 29,000 embarkations) were thus notified to Executive Councils in 1960, additionally to the normal notifications referred to in the previous paragraph.

PARLIAMENTARY AND LOCAL GOVERNMENT ELECTORS

Electoral Registers

As required by the Electoral Registers Act, 1949, and the Representation of the People Act, 1949, a local register of electors based on a canvass is prepared in the autumn of each year. This distinguishes between those who are:

- (a) parliamentary and local government electors by virtue of residence on the qualifying date;
- (b) local government electors with a non-resident qualification on the qualifying date by virtue of occupancy (as owner or tenant) of any rateable land or premises of not less than £10 rateable value per occupier.

There is also a service register for any member of the Armed Forces and other persons employed in the service of the Crown in a post outside the United Kingdom and for their wives if with them.

The qualifying date for inclusion on the register is 10th October in England and Wales and the registers must be used for elections held in the twelve months beginning on the 16th February of the following year.

A person not of full age on the qualifying date but who will be so on the following 15th June is to be included on the register though there is no entitlement to vote before the following 2nd October. Such persons are shown separately in Table CXXIII below as "Young Electors". There are 245,464 "Young Electors" on the 1960 register of electors. By definition this group should include all persons (except aliens and others who are not entitled to be registered) who were aged between 20 years 4 months and 21 years on the qualifying date. It can be estimated that the total number of persons in this age-group in England and Wales is about 400,000. After allowing for those not entitled to be registered, the discrepancy between actual and potential registrations is substantial. It would appear that the main reason is probably that many householders, in completing the forms from which the register is compiled, either fail to appreciate that persons in this age-group should be included, or fail to indicate that they are not yet 21.

Total electorate

The particulars recorded in Tables U and V for 1960 have been taken from statements sent to the Registrar General by the Electoral Registration Officers and Clerks to local authorities. They relate to the register which came into force on 16th February 1960.

Table U refers to parliamentary and Table V to local government electors and elections. Table CXXIII shows a few summary figures for 1960 and earlier years.

Table CXXIII. Parliamentary and local government electors, 1955 to 1960, England and Wales

		Parliamenta	ry Register		
Register (qualifying date in brackets)	Total at	Services Register	(not in	Electors " cluded 2 and 3)	Local Government Register
	qualifying date	(included in col. 2)	Total	Services (included in col. 4)	Coost Wash
1 1	2	3	4	5	6
1955 (10th Oct. 1954)	30,590,931	285,376	242,907	19,578	30,707,251
1956 (10th Oct. 1955)	30,679,509	289,615	248,420	18,259	30,795,617
1957 (10th Oct. 1956)	30,737,369	295,084	243,793	22,593	30,855,871
1958 (10th Oct. 1957)	30,795,834	283,383	250,464	26,707	30,914,568
1959 (10th Oct. 1958)	30,850,124	274,628	258,688	24,129	30,969,488
1960 (10th Oct. 1959)	30,974,254	279,936	245,464	25,435	31,096,735

The number of parliamentary electors on England and Wales consistently corresponds almost exactly with the estimated *total* population aged 21 and over, excluding aliens resident here and those categories of persons not qualified to vote. This indicates that the discrepancies in different constituencies, due mostly to time lags in adding names to the registers or removing them, largely cancel out when aggregated for England and Wales as a whole. The percentages which the total parliamentary electorate represented of the estimated total population in the years 1955 to 1960 were:

1955	1956	1957	1958	1959	1960
68.6	68.4	68.2	68·1	67.8	67.6

The proportion of the total population included on the local government register was 67.81 per cent in 1960. This is a slightly higher proportion than that of the parliamentary register, on account of the inclusion of those local government electors who have non-resident qualifications. There are just over 122 thousand of these in England and Wales. Normally the number increases only by a few hundred persons each year; but between the compilation of the 1959 and 1960 registers, three thousand names were added.

Size of parliamentary constituencies

Table CXXIV shows for 1956 and 1960 the distribution of parliamentary constituencies, classified into county and borough constituencies, by their number of parliamentary electors.

Table CXXIV. Parliamentary constituencies by size, distinguishing county and borough constituencies, 1956 and 1960, England and Wales

		Parliamentat	Number of o	constituencies	
Total number of qualifying		19	956	19	960
		County	Borough	County	Borough
Under 30,000	Dales Josepha	(4 JOS di	date 1	1	
30,000		î	_	î	1
35,000		5	6	5	11
40,000		21	13	21	12
45,000		43	29	33	46
50,000	a retrieupe	56	72	50	71
55,000	102	61	76	51	66
60,000		38	48	37	40
65,000		17	29	27	26
70,000	date - 55) - 545	5	22	14	22
80,000 and over	nd of parceire	o to Edward	3 1	3	3
Total	1	248	299	248	299

While the average number of electors in a parliamentary constituency has risen slightly from 56,087 in 1956 to 56,626 in 1960, it is interesting to note the increasingly closer approximation to each other of the average number of voters in county and borough constituencies:

Average number of electors in	1956	1958	1960
All parliamentary constituencies	56,087	56,300	56,626
County constituencies	54,448	55,545	56,750
Borough constituencies	57,446	56,926	56,522

In 1956 the average number of electors in borough constituencies was 2,998 in excess of that in county constituencies. By 1960 the average number of electors in county constituencies had gradually become 228 in excess of borough constituencies. The distribution of constituencies by size shows a marked upward shift in the county constituencies; but in the borough constituencies there is no such pronounced trend.

Local government elections

The next election for county councils takes place in 1961. An analysis of the 1958 elections appeared in the 1958 Commentary (pages 208–210) to which there is nothing to add. There was also a review of rural district council elections on pages 210–213 of the 1958 Commentary. As it was 1957 when local council elections in urban areas were last examined closely, it may be useful to take account of the position in this sector of local elections since then, although no elections were held in the metropolitan boroughs in 1960.

Table CXXV below gives the background picture for all the various types of local authority down to rural districts.

Table CXXV. Local government elections. Percentage of electorate voting in contested elections, 1952 to 1960, England and Wales

CONTRACTOR OF THE PROPERTY OF									
District	1952	1953	1954	1955	1956	1957	1958	1959	1960
Administrative counties County boroughs Other boroughs and urban	43.2	45.2	42.8	36·5 43·8	37.6	40.0	33·3 40·3	41.0	35.4
districts Rural districts	50·9 52·0	46·8 47·3	45·7 47·1	45·0 48·2	39·4 41·3	44·1 45·2	42·9 46·2	42·1 42·1	40·4 37·5
Total	48.0	46.2	44.3	41.6	38.7	42.2	38.6	41.6	38.0

With a single exception—the low figure for non-county boroughs and urban districts in 1956—the percentage of the electorate voting in contested elections in 1960 was the lowest for over a decade in each of the above groups holding elections in this year. In many rural districts no election was held in 1960; in under ten cases percentages of over 70 were reached in England, but only in the tiny electorates returning one (or in the odd case, two) councillor(s). Wales also had five or six instances of high percentages of small electorates returning one, or occasionally two, councillor(s). Only England showed a percentage of rural electors as low as 15·2, when five councillors were elected for Abingdon R.D.

Local government elections in urban areas

Table CXXVI below pays more detailed attention to the situation in the various types of urban area than was possible in the previous table.

In the 1957 comments on urban local authority elections, attention was drawn to the significant tendency for the percentage voting to fall as the size of local authority rose. Even then this long-standing tendency was by no means an invariable rule. In one county borough with an electorate exceeding 70,000, over 60 per cent of the electors voted in 1957, a proportion not reached by any smaller county borough and by only 22 out of 347 municipal boroughs and urban districts with an electorate of 10,000 or more. In as many as six out of the nine largest county boroughs (200,000 or more electors) there was higher participation than in 7 of the 72 with smaller electorates.

In 1960 the inverse relationship between local authority size and its proportion of the electorate voting was still visible, though the average participation in elections in county boroughs with electorates of 70–100,000 was higher than that in the lower range from 50,000. This was due to the fact that three of the five largest county boroughs in the higher group averaged 44 per cent participation by voters. Nevertheless it was still as clear as ever that the larger urban authorities have special difficulties in reaching a level of participation in elections frequently exceeded in smaller urban and in rural authorities. In the 33 local authorities with electorates exceeding 100,000 (28 county boroughs and five of the municipal boroughs in the Greater London area), the average level of participation was only 33·7 per cent, ranging from 21·1 per cent (West Ham C.B.) and under 25 per cent (Sheffield C.B.) to 44·1 per cent (Coventry C.B.) and

Table CXXVI. Local government elections. Percentage of electorate voting in contested elections in urban areas, 1960, England and Wales

							Percer	ntage o	of elect	corate	voting							1 2	D
Electorate at	quali	ifying (late	Under 25	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75 and over	Total	Total electorate	Electorate voting	Percentage of electorate voting
					15.				Cour	nty bo	roughs				i a	900	19 91		4 1 8
Under 50,000				1 -	1	3	7 1	3	9.9	4						18	602,410	246,120	40.9
50,000		9	2 1	1	1	3	5	3	5							18	855,084	332,916	38.9
70,000					1	5	4	4	5 5	_						19	1,313,419	511.953	39.0
100,000				1	1 2 3	3 5 5 2	6	6			_			_	_	20	2,585,164	940,697	36.4
200,000 and over	r	2.8		1	3	2	2		-		_				-	8	3,035,148	941,139	31.0
Total				3	8	18	24	16	10	4					-	83	8,391,225	2,972,825	35.4
MARKE							Mu	nicipa	l boro	ughs a	nd urb	oan dis	tricts			7	92 82	1018	
Under 5,000		3	8 85	1 4	5	7	15	18	20	18	16	15	10	2	5	135	395,692	186,901	47.2
5,000		1 8		4	5 8	11	10	22	23	24	15	9	5	1	_	132	687,723	316,562	46.0
10,000		1.0		4 7	6	15	27 35	22 35 43	23 29 29	24 23 20	13	6	2			163	1,511,627	652,486	43.2
20,000		A		4	6 9 2	15 22	35	43	29	20	2	_		_		164	4,068,718	1,660,921	40.8
50,000 and over	•	E		5	2	10	10	7	5	_					_	39	2,590,702	921,087	35.6
Total	1.0	8.0		24	30	65	97	125	106	85	46	30	17	3	5	633	9,254,462	3,737,957	40 · 4

44.5 per cent (Ealing M.B.) in 1960. These authorities had six and a quarter million electors in the contested wards.

The smallest proportions voting were also exceptions to the general tendency to find them in the larger authorities. Swindon M.B. polled only 17·5 per cent of some 45,000 eligible electors, Kendal M.B. 18·1 per cent of some 2,100, and Littlehampton U.D. under 20 per cent of some 8,000.

The basis for Tables CXXV and CXXVI is the list in column 7 of Table V in Part II. This gives for each local authority and for appropriate groupings the percentage of all electors eligible to vote who did so, i.e. the quotient obtained by dividing votes cast by total electorates of divisions, wards or parishes in which a ballot was taken, multiplied by 100.

Since the 1957 comments on urban elections were made, an interesting criticism has been levelled against the use of the Table V percentages to measure participation in local elections for purposes of comparison. They are alleged to ignore the fact that participation in local elections is determined by the proportion of uncontested seats. It is suggested that a preferable index of participation in local elections would be obtained by using as denominator the total number of Local Government electors in each local authority or group of authorities. The criticised and suggested methods would show the following results if applied to the 1960 elections in the urban areas now under consideration and in rural districts:

District	Voters as a percentage of electorates of contested wards and parishes	Voters as a percentage of all Local Government electors in those local authorities holding any elections	Percentage of councillors returned unopposed
County boroughs	35.4	32.0	13.0
Municipal boroughs and urban districts	40·4 37·5	30·3 5·1	32·7 75·6

It is true that in some areas the total number of electors who could legally have voted in the actual (as opposed to might-have-been) elections by ballot held in 1960 coincides with the total number of Local Government electors in the local authority area. But they form the denominator in the percentage calculations in Table V in their first mentioned character. We have retained the method criticised, not because we do not accept the contention that the incidence of unopposed returns affects the fair comparison of participation in different areas, but because we cannot envisage any general acceptance of the alternative method suggested, i.e. weighting the denominator without some change in the numerator. If might-have-been elections by ballot are to be brought into the picture, the reasons for election without ballot may be thought to become relevant and these can certainly include the opinion of would-be contestants (based on past experience or otherwise) that a fight would be a waste of time, effort and money. Our present method does not necessarily reflect the belief that it would be impossible to attempt to assess such potentially controversial

matters quantitatively. If the suggested weighting of the denominator were accompanied by adjustment of the numerator on the basis that elections by ballot would produce results similar to the average of actual contests in the area, Table V percentages would be unchanged. If the need for such consideration is accepted, the suggested simple weighting of the denominator only is equivalent to assuming that no votes whatever would have been cast. Some people might prefer to assume that such contests would only yield the national average for contested elections in that type of authority. Others might feel the local average should be used up to a certain ratio of unopposed to contested elections in an area and the national average thereafter. It is not impossible that other variations in treatment of the problem might recommend themselves, including a limited use of a higher proportion than the local average. Table V gives the number of Local Government electors and the number of councillors returned unopposed and after ballot, and interested persons can make their own calculations, including, of course, the simple substitution of the enlarged for the present denominator.

Central Index of Service Voters

During 1960 the Central Index of Service Voters (which is maintained by the General Register Office on an agency basis) received from Electoral Registration Officers 67,211 declarations by persons qualified to be included in the electoral registers as service voters. The categories of persons qualified as service voters are:

- (i) any person who is a member of H.M. Forces;
- (ii) any person employed in the services of the Crown in a post outside the United Kingdom;
- (iii) any woman who is the wife of a service voter and is residing outside the United Kingdom to be with her husband.

A further 14,597 declarations were received in respect of persons under the age of 21 years. The Central Index notified Electoral Registration Officers of 10,502 persons who had made declarations before reaching the age of 21 years but who, during 1960, attained that age. Altogether 77,713 new service voters were added to the electoral registers.

In the same period Electoral Registration Officers were notified of 89,534 names of persons whose declarations ceased to be in force, and 14,481 declarations by persons under full age were cancelled because they ceased to have a service qualification before attaining full age.

APPENDICES

APPENDIX A

FERTILITY BY YEAR OF MARRIAGE, 1920-1960

Women married once only, England and Wales

1. Mean family size

Table 1 (a).—All marriage ages under 45

Mean family size

	Calendar year													Ma	arriag	e dur	ation	(exac	t year	rs)													Calendar
	of marriage	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	year of marriage
	1920–24	·04	·40	•70	.92	1 · 11	1 · 28	1 · 42	1.55	1 · 67	1 · 77	1 · 85	1.93	2.00	2.05	2 · 10	2 · 15	2 · 18	2 · 21	2 · 24	2.26	2 · 28	2.29	2.30	2 · 31	2 · 32	2 · 32	2 · 32	2.32	2.32	2.32	2.32	1920–24
	1925 1926 1927 1928 1929	·04 ·04 ·04 ·03 ·03	· 39 · 38 · 38 · 35 · 37	·66 ·64 ·63 ·63	·83	1.00	1 · 13	$1 \cdot 27$ $1 \cdot 26$	1.38	1.49	1.58	1.66	1.72	1·81 1·78 1·77	1.83	1.87	1.95	2·03 1·99 1·95 1·93 1·96	1.98	2.05 2.01	2.07 2.03	2.10 2.05	2.11 2.07	2·12 2·08	2.13	2.14	2.14	2.09	2.14	2·14 2·09	2·14 2·09	2·14 2·09	1925 1926 1927 1928 1929
264	1930 1931 1932 1933 1934	·03 ·03 ·03 ·04 ·03	·36 ·36 ·36 ·35 ·34	.59	·82 ·79 ·78 ·78	·98	1 · 13 1 · 10 1 · 10 1 · 09	1 · 27 1 · 24 1 · 22 1 · 22	1·38 1·35 1·34 1·33	1·48 1·45 1·44 1·42	1·57 1·54 1·51 1·50	1.64 1.61 1.58	1·71 1·67 1·66	1·76 1·74 1·73	1·82 1·80 1·81	1·87 1·86 1·87	1·92 1·91 1·92	1·96 1·96 1·97 1·96 1·95	2·00 1·99 2·00	2·03 2·02 2·02	2·04 2·04 2·04	2·06 2·05 2·05	2·07 2·06 2·06	2·08 2·07 2·07	2·08 2·07 2·07	2·08 2·07 2·08	2·08 2·08 2·08	2·09 2·08 2·08	2·09 2·08 2·08	2·09 2·08 2·08	2.09		1930 1931 1932 1933 1934
4	1935 1936 1937 1938 1939	·03 ·03 ·03 ·03 ·02	·33 ·32 ·31 ·32 ·25	·57 ·56 ·55 ·56 ·47	·75 ·73 ·73	·93 ·91 ·87 ·88	1 · 06 1 · 03 · 99 1 · 03	1 · 17 1 · 15 1 · 13 1 · 18	1·28 1·27 1·27 1·32	1·39 1·39 1·39 1·44	1·50 1·50 1·51 1·58	1·60 1·60 1·62 1·68	1 · 68 1 · 69 1 · 72 1 · 76	1·77 1·77 1·79 1·83	1 · 84 1 · 82 1 · 84	1 · 88 1 · 87 1 · 88	1·92 1·90 1·92	1·95 1·93 1·94 1·97 1·95	1.98 1.95 1.96	1·99 1·97 1·98	2·00 1·98 1·99	2·02 1·99 2·00	2·02 2·00 2·01	2·03 2·00 2·01	2.03	2.03	2 04		11111	11111	11111		1935 1936 1937 1938 1939
	1940 1941 1942 1943 1944	·02 ·02 ·02 ·03 ·04	·21 ·21 ·22 ·27 ·29	·43 ·45 ·46 ·53 ·58	·64 ·65 ·74	·79 ·82 ·84 ·96	·95 ·99 1·05	1 · 11 1 · 18 1 · 24 1 · 33	1·29 1·35 1·38 1·46	1·43 1·47 1·50 1:58	1 · 54 1 · 57 1 · 60 1 · 66	1·63 1·66 1·69	1·70 1·72 1·75	1·75 1·78 1·81	1·80 1·83 1·86	1 · 84 1 · 87 1 · 90	1·87 1·90 1·94	1.89	1·92 1·95 1·99	1·93 1·97 2·01	1.05	1.06	= = =			11111	= =			11111	11111	11111	1940 1941 1942 1943 1944
	1945 1946 1947 1948 1949	·04 ·04 ·04 ·04 ·04	·28 ·33 ·34 ·34 ·33	·60 ·66 ·66 ·64 ·62	·89 ·88 ·86	$1.09 \\ 1.08 \\ 1.05$	$1 \cdot 25$ $1 \cdot 25$ $1 \cdot 25$	1·39 1·40 1·40 1·39 1·38	1.53 1.53 1.52	1 · 64 1 · 64 1 · 63	1·73 1·73 1·72	1 · 80 1 · 81	1 · 87 1 · 88	1·93 1·94	1.00	2·00 2·02 —	2.03												11111		11111		1945 1946 1947 1948 1949
	1950 1951 1952 1953 1954	· 04 · 04 · 04 · 04 · 04	·35 ·31 ·32 ·32 ·32	·62 ·58 ·58 ·58 ·58	·79 ·80 ·81	1·00 1·03	1.18 1.20 1.23	1 · 42 1 · 35 1 · 38 1 · 41 1 · 42	1·49 1·53 1·56	1·62 1·65	1.72	1.91		11111				= = =		11111		E				HILLI	= = =		11111		11111		1950 1951 1952 1953 1954
	1955 1956 1957 1958 1959	· 04 · 04 · 04 · 04 · 04	·33 ·34 ·34 ·35 ·37	·60 ·61 ·62 ·63	·86 ·87	1·06 1·10 —			11111		11111						= = = = = = = = = = = = = = = = = = = =				11111				= = =								1955 1956 1957 1958 1959
	1960	•04		_				-	_		_	-	-	-	-		-	-	-	-	-	-	-	-	_	_	-	-	-	-	-	-	1960

Table 1 (b).—Marriage	age	under	20	
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Mean family size

	Calendar													Ma	arriag	e dur	ation	(exact	year	rs)													Calendar
	year of marriage	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	year of marriage
	1920–24	•03	.57	.91	1 · 19	1 · 43	1 · 65	1 · 85	2.03	2.21	2.36	2.50	2.64	2.77	2.88	2.98	3.08	3 · 17	3 · 25	3 · 33	3 · 40	3 · 46	3 · 51	3.56	3 · 59	3 · 62	3 · 65	3 · 66	3 · 67	3 · 67	3.67	3 · 67	1920–24
	1925 1926 1927 1928 1929	· 04 · 04 · 05 · 04 · 03	· 58 · 60 · 63 · 60 · 65	·91 ·92 ·94	1·17 1·16 1·18	1·38 1·37 1·42	1·58 1·57 1·60	1·76 1·74 1·77	1.91 1.90 1.93	2·06 2·05 2·09	2·20 2·18 2·22	2·34 2·33 2·36	2·48 2·44 2·47	2·59 2·56 2·58	2·70 2·66 2·68	2·79 2·76 2·79	2·88 2·85 2·88	2·97 2·96 2·94 2·98 3·00	3.04 3.02 3.07	$3 \cdot 12$ $3 \cdot 12$ $3 \cdot 16$	$3 \cdot 19$ $3 \cdot 19$ $3 \cdot 25$	3·26 3·26 3·31	$3 \cdot 33$ $3 \cdot 31$ $3 \cdot 36$	3·37 3·34 3·40	3·41 3·37 3·43	3·43 3·39 3·44	3·44 3·40 3·46	3·45 3·41 3·47	3·46 3·42 3·47	3·46 3·42 3·47	3·46 3·42 3·47	3·46 3·42 3·48	1926 1927
	1930 1931 1932 1933 1934	·03 ·02 ·03 ·04 ·03	·63 ·63 ·62 ·64 ·64	·92 ·92 ·94	1·15 1·17 1·17	1·37 1·37 1·38	1·57 1·56 1·57	1·75 1·74 1·75	1·91 1·91 1·90	2·06 2·04 2·03	2·21 2·17 2·15	2·33 2·30 2·28	2·45 2·43 2·42	2·56 2·55 2·55	2·67 2·67 2·68	2·78 2·79 2·82	2·87 2·92 2·94	2·99 2·98 3·03 3·03 3·09	3.07 3.11 3.10	$3 \cdot 14$ $3 \cdot 18$ $3 \cdot 16$	$3 \cdot 20$ $3 \cdot 23$ $3 \cdot 20$	3·24 3·27 3·24	$3 \cdot 28 \\ 3 \cdot 31 \\ 3 \cdot 28$	$\begin{vmatrix} 3 \cdot 30 \\ 3 \cdot 34 \\ 3 \cdot 30 \end{vmatrix}$	3·33 3·36 3·33	$3 \cdot 34$ $3 \cdot 38$ $3 \cdot 34$	3·36 3·39 3·35	$\begin{vmatrix} 3 \cdot 36 \\ 3 \cdot 40 \\ 3 \cdot 36 \end{vmatrix}$	3·36 3·40 3·36	$3 \cdot 37 \\ 3 \cdot 40$	3.37	3·40 — — —	1930 1931 1932 1933 1934
265	1935 1936 1937 1938 1939	·03 ·04 ·03 ·03 ·02	·62 ·62 ·59 ·61 ·43	·93 ·89 ·92	1·17 1·13 1·15	1·38 1·32 1·34	1·56 1·50	1·72 1·68	1 · 88 1 · 84 1 · 87	2·03 2·01 2·06	2·19 2·18 2·24	2·34 2·36 2·39	2·50 2·51 2·51	2·64 2·64 2·62	2·76 2·74 2·72	2·85 2·83 2·79	2·93 2·91 2·86	3·00 2·99 2·98 2·92 2·77	3.05 3.04 2.98	$3 \cdot 10$ $3 \cdot 10$ $3 \cdot 03$	3.15 3.14 3.07	3·19 3·18 3·11	$3 \cdot 22$ $3 \cdot 22$ $3 \cdot 14$	3·25 3·25 3·17	$3 \cdot 27$ $3 \cdot 27$	3.28	3 · 29						1935 1936 1937 1938 1939
	1940 1941 1942 1943 1944	·02 ·02 ·02 ·02 ·02 ·03	·32 ·30 ·30 ·34 ·38	·55	·79 ·78 ·86	·99 1·00 1·11	1·20 1·25 1·36	1·45 1·49 1·56	1 · 68 1 · 68 1 · 74	1 · 84 1 · 83 1 · 88	1.98 1.97 2.01	2·11 2·08 2·12	2·22 2·19 2·23	2·32 2·28 2·31	2·40 2·36 2·39	2·47 2·43 2·45	2·53 2·50 2·51		2·64 2·61 2·62	2.69	2.73				_ _ _ _								1940 1941 1942 1943 1944
	1945 1946 1947 1948 1949	·04 ·04 ·04 ·04 ·04	·35 ·42 ·46 ·48 ·48	·80 ·84 ·84	1·09 1·11 1·11	1·33 1·35 1·35	1·54 1·56 1·57	1 · 67 1 · 73 1 · 75 1 · 78 1 · 81	1·90 1·92 1·95	2·05 2·07 2·10	$2 \cdot 18$ $2 \cdot 21$ $2 \cdot 24$	2·30 2·33 2·37	2·41 2·44 2·49	2·51 2·54 2·59	2.60	2.67	2.63								_ _ _ _							11111	1945 1946 1947 1948 1949
	1950 1951 1952 1953 1954	·04 ·04 ·04 ·04 ·04	·52 ·46 ·47 ·48 ·47	·78 ·79 ·80	1·06 1·06 1·07	1 · 32 1 · 32 1 · 34	1·55 1·57 1·59	1 · 83 1 · 77 1 · 78 1 · 81 1 · 79	1.96 1.98 2.01	2 · 13	2.28							- - - - - - - - - -			=======================================	=======================================					=======================================						1950 1951 1952 1953 1954
	1955 1956 1957 1958 1959	·04 ·04 ·04 ·04 ·04	·45 ·46 ·46 ·47 ·47	.78	1·08 1·08	1.35	1.55															=======================================	=======================================										1955 1956 1957 1958 1959
	1960	.04	-	-	-	8-3	-	-	-	_	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1960

	Calendar year		が大											М	arria	ge du	ration	ı (exa	ct yea	rs)							I.S.						Calendar
	of marriage	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	year of marriage
	1920–24	.03	•44	.76	1.00	1 · 21	1 · 39	1.56	1.70	1 · 84	1.96	2.06	2.15	2.24	2 · 31	2.37	2.43	2 · 48	2.52	2.55	2.58	2.60	2.62	2.63	2.64	2.65	2.65	2.65	2.65	2.65	2.65	2.65	1920–24
	1925 1926 1927 1928 1929	·03 ·03 ·03 ·02 ·02	·43 ·42 ·42 ·38 ·41	·70 ·70 ·68	·91 ·89	1·10 1·08	1·27 1·24	1.41	1.53	1.66	1.76	1.86	1.93	2.00	$\frac{2 \cdot 11}{2 \cdot 07}$	2.10	2.16	2.21	2.32	2.36	2.39	2·46 2·42 2·35 2·33 2·34	2.44	2.46	2.47 2.39	2.47	2.48	2.48	2·48 2·39	2·48 2·39	2·48 2·39	2·48 2·39	1925 1926 1927 1928 1929
	1930 1931 1932 1933 1934	·02 ·02 ·02 ·03 ·02	·39 ·38 ·38 ·37 ·37	·68 ·66 ·64 ·64 ·63	·88 ·86 ·84 ·84	1·07 1·04 1·02 1·02	1·23 1·20 1·19 1·18	1·38 1·35 1·33 1·32	1·51 1·48 1·46	1 · 62 1 · 59 1 · 57	1·72 1·69 1·66	1·81 1·77 1·74	1.88 1.85 1.83	1.95 1.92 1.92	2·02 2·00 2·01	2·08 2·08 2·09	2·15 2·14 2·16	2·20 2·21 2·21	2·24 2·25 2·25	2·28 2·28 2·28	2·30 2·31 2·30	2·32 2·33 2·31 2·30 2·28	2·33 2·34 2·32	2·34 2·34 2·33	2·34 2·35 2·34	2·35 2·35 2·34	2·35 2·35 2·34	2·35 2·35 2·34	2·35 2·35 2·34	2·35 2·35	2·35 2·35	2.35	1930 1931 1932 1933 1934
266	1935 1936 1937 1938 1939	·02 ·03 ·03 ·02 ·02	·36 ·35 ·33 ·32 ·24	·60 ·58 ·57	·82 ·80 ·78	1·01 ·98 ·93 ·92	1·16 1·12 1·07 1·08	1·27 1·24 1·22 1·25	1·39 1·37 1·37 1·40	1·52 1·50 1·50 1·54	1.65 1.63 1.64 1.69	1·76 1·75 1·77	1·87 1·87 1·88	1.98 1.96 1.96	2·06 2·03 2·03	2·12 2·08 2·08	2·17 2·13 2·12 2·14	2·21 2·16 2·16	2·24 2·19 2·18	2·26 2·21 2·20	2·28 2·23 2·22	2·30 2·24 2·23 2·24 2·19	2·30 2·25 2·24	2·31 2·26 2·24	2·31 2·26 2·25	3·32 2·26	2.32						1935 1936 1937 1938 1939
	1940 1941 1942 1943 1944	·02 ·02 ·02 ·02 ·02 ·04	·20 ·20 ·21 ·27 ·28	·44 ·47 ·55	·65 ·67 ·75	·84 ·86 ·99	1·02 1·09 1·20	1·16 1·23 1·29 1·38 1·44	1 · 42 1 · 44 1 · 53	1·55 1·58 1·65	1.66 1.69 1.75	1 · 76 1 · 78 1 · 84	1 · 83 1 · 85 1 · 91	1·89 1·92 1·97	1.95 1.97 2.02	1·99 2·02 2·06	2.03 2.06 2.10	2.09	2.12	2.11	2.13	2.11		1111	11111			11111					1940 1941 1942 1943 1944
	1945 1946 1947 1948 1949	·03 ·03 ·03 ·03 ·03	·27 ·33 ·34 ·33 ·32	·67	·92 ·90 ·86	1·13 1·10 1·07	1·31 1·28 1·25	1·43 1·47 1·45 1·42 1·40	1 · 61 1 · 58 1 · 55	1.73 1.70 1.67	1·82 1·80 1·78	1·91 1·88	1.98 1.96 1.94	2·04 2·03 2·01	$2.10 \\ 2.09$	2.15	2·12 — —	11111	11111	11111					11111								1945 1946 1947 1948 1949
	1950 1951 1952 1953 1954	·03 ·03 ·03 ·03 ·03	·32 ·28 ·29 ·28 ·28	·55 ·56 ·55	·76 ·77 ·77	·97 ·98 ·99	$ \begin{array}{c} 1 \cdot 16 \\ 1 \cdot 18 \\ 1 \cdot 20 \end{array} $	1·43 1·34 1·37 1·39 1·40	1·49 1·53 1·55	1.63	1·85 1·74 —	1.95	11111	11111			11111	11111							11111				=				1950 1951 1952 1953 1954
	1955 1956 1957 1958 1959	·03 ·03 ·03 ·03 ·03	·29 ·30 ·30 ·31 ·35	·56 ·57 ·57 ·58	·82 ·82	1·02 1·06 —			=======================================		11111		11111	11111			11111	11111		11111	10									_	11111		1955 1956 1957 1958 1959
	1960	•03		-	Ę.	-	-	-	70	-	-	-	-	-	_	_	-	-	_	_	_	_	_	-	_		_	_	-		-	-	1960

Table 1 (d).—Marriage age 25-29

Mean family size

	Calendar	-031													Marr	iage o	durati	on (ex	act y	ears)													Calendar year
	year of marriage	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	of marriage
	1920–24	•03	•33	•62	·82	1.00	1 · 15	1 · 28	1 · 39	1 · 49	1 · 58	1.65	1 · 70	1.75	1 · 78	1 · 81	1 · 84	1.85	1.86	1 · 87	1 · 88	1 · 88	1 · 88	1 · 88	1 · 88	1 · 88	1 · 88	1 · 88	1 · 88	1 · 88	1 · 88	1 · 88	1920–24
	1925 1926 1927 1928 1929	·03 ·03 ·02 ·03 ·03	·30 ·29 ·27 ·27 ·26	·54 ·50 ·52	·73 ·72 ·68 ·70 ·68	·88 ·83 ·85	1·01 ·97 ·98	1.13 1.07 1.10	1·23 1·18 1·19	1·32 1·26 1·27	1·39 1·34 1·35	1 · 45 1 · 40 1 · 41	1 · 51 1 · 46 1 · 46	1.55 1.50 1.50	1.58 1.53 1.53	1 · 60 1 · 56 1 · 56	1 · 62 1 · 58 1 · 58	1 · 68 1 · 64 1 · 60 1 · 60 1 · 61	1 · 65 1 · 61 1 · 61	1·66 1·61 1·62	1 · 66 1 · 62 1 · 63	1 · 66 1 · 63 1 · 63	1 · 67 1 · 63 1 · 64	1 · 67 1 · 63 1 · 64	1 · 67 1 · 63 1 · 64	1 · 67 1 · 63 1 · 64	1 · 67 1 · 63 1 · 64	1·67 1·63 1·64	1·67 1·63 1·64	1·67 1·63 1·64	1·67 1·63 1·64	1·67 1·63 1·64	1925 1926 1927 1928 1929
	1930 1931 1932 1933 1934	·02 ·02 ·02 ·03 ·03	·27 ·26 ·25 ·26 ·25	·50 ·49 ·47 ·49 ·48	·68 ·66 ·64 ·67 ·65	·84 ·82 ·79 ·82 ·80	·95 ·93	1·07 1·05	1·17 1·15 1·17	1·26 1·23 1·24	1·34 1·29 1·30	1·39 1·35 1·37	1 · 44 1 · 40 1 · 44	1·48 1·46 1·50	1·53 1·52 1·54	1·56 1·55 1·58	1 · 59 1 · 59 1 · 61	1 · 65 1 · 61 1 · 61 1 · 62 1 · 62	1·63 1·63 1·64	1 · 64 1 · 64 1 · 64	1 · 64 1 · 64 1 · 65	1 · 64 1 · 64 1 · 65	1 · 65 1 · 64 1 · 65	1 · 65 1 · 64 1 · 65	1 · 65 1 · 64 1 · 65	1 · 65 1 · 64 1 · 65	1 · 65 1 · 64 1 · 65	1·65 1·64 1·65	1·65 1·64 1·65	1.65	1.65	1·69 — — —	1930 1931 1932 1933 1934
267	1935 1936 1937 1938 1939	·02 ·02 ·03 ·03 ·02	·25 ·24 ·23 ·24 ·20	·47 ·47 ·45 ·45 ·40	·66 ·64 ·62 ·61 ·57	·82 ·80 ·74 ·74 ·74	·90 ·85 ·89	1·02 1·00 1·04	1·12 1·13 1·17	1·24 1·26 1·30	1·34 1·36 1·42	1·42 1·47 1·52	1·50 1·55 1·59	1·56 1·60 1·64	1 · 60 1 · 64 1 · 67	1 · 62 1 · 67 1 · 70	1·64 1·69 1·72	1·66 1·65 1·70 1·73 1·71	1 · 66 1 · 70 1 · 74	1·67 1·71 1·74	1·67 1·71 1·74	1 · 67 1 · 71 1 · 74	1·67 1·71 1·74	1 · 67 1 · 71	1.67	1 · 68 1 · 67 —	1 · 68	11111	11111	11111			1935 1936 1937 1938 1939
	1940 1941 1942 1943 1944	·02 ·02 ·03 ·04 ·04	·17 ·18 ·20 ·26 ·26	·37 ·40 ·44 ·51 ·55	·55 ·58 ·62 ·72 ·79	·75 ·80 ·93	·92 ·99	1·09 1·16 1·27	1·24 1·29 1·40	1·35 1·39 1·49	1·44 1·47 1·56	1·50 1·54 1·63	1·55 1·58 1·68	1·59 1·63 1·72	1·62 1·66 1·75	1 · 64 1 · 68 1 · 77	1·66 1·70 1·78	1·68 1·67 1·71 1·80 1·84	1 · 68 1 · 72 1 · 80	1·68 1·72		1·69 — — —				=	=						1940 1941 1942 1943 1944
	1945 1946 1947 1948 1949	·05 ·05 ·05 ·05 ·05	·27 ·32 ·33 ·31 ·29	·59 ·63 ·62 ·59 ·56	·86 ·84 ·81	1·04 1·02 1·00	1·20 1·20 1·17	1·34 1·35 1·32	1·45 1·47 1·44	1·55 1·57 1·54	1·63 1·66 1·62	1·70 1·73 1·69	1·74 1·75 1·78 1·75 1·70	1 · 80 1 · 83 1 · 80	1.83 1.86	1.86							= = =		_	<u>-</u>		11111					1945 1946 1947 1948 1949
	1950 1951 1952 1953 1954	·05 ·05 ·05 ·05 ·05	·30 ·28 ·28 ·28 ·28	· 57 · 54 · 54 · 54 · 54	·79 ·74 ·74 ·76 ·76	·93 ·94 ·96	1·11 1·12 1·15	1·33 1·26 1·28 1·32 1·35	1·39 1·41 1·46	$\begin{array}{c} 1 \cdot 50 \\ 1 \cdot 53 \end{array}$	1.59	1.75			11111	11111		=		= = = = = = = = = = = = = = = = = = = =							= = =						1950 1951 1952 1953 1954
	1955 1956 1957 1958 1959	·05 ·05 ·05 ·05 ·05	·30 ·31 ·32 ·33 ·33	· 57 · 58 · 59 · 61		1.06	1·22 — — —		11111					= = = = = = = = = = = = = = = = = = = =	11111	11111		= = = = = = = = = = = = = = = = = = = =				11111	=======================================										1955 1956 1957 1958 1959
	1960	.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	1960

	Calendar				198									Ma	arriag	e dur	ation	(exac	year	rs)													Calendar
	of marriage	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	year of marriage
	1920–24	.05	.33	.57	.75	.91	1.03	1 · 13	1 · 21	1 · 28	1.33	1.36	1 · 39	1 · 41	1 · 42	1 · 42	1 · 43	1 · 44	1 · 44	1 · 44	1 · 44	1 · 44	1 · 44	1 · 44	1 · 44	1 · 44	1 · 44	1 · 44	1 · 44	1 · 44	1 · 44	1 · 44	1920–24
	1925 1926 1927 1928 1929	·06 ·06 ·07 ·06 ·06	·32 ·29 ·31 ·28 ·28	·56 ·50 ·53 ·50 ·49	·66 ·70 ·65	·78 ·82 ·76	·93	1.03	1.09	1 · 14 1 · 04	1 · 18 1 · 07	1 · 21 1 · 10	1 · 24 1 · 12	1·17 1·26 1·13	1·18 1·26 1·13	1.19	1.19	11.19	1·19 1·27 1·14	1.19	1.19	1.19	$1 \cdot 19$ $1 \cdot 27$ $1 \cdot 15$	1.19	$1 \cdot 19 \\ 1 \cdot 27 \\ 1 \cdot 15$	1·19 1·27	1 · 19	$1 \cdot 19$ $1 \cdot 27$	$1 \cdot 19$ $1 \cdot 27$	1 · 19	$1 \cdot 19$ $1 \cdot 27$	$1 \cdot 19$ $1 \cdot 27$	1926 1927
	1930 1931 1932 1933 1934	·05 ·07 ·06 ·04 ·04	·26 ·28 ·30 ·26 ·25	·48 ·46 ·48 ·46 ·44	·61 ·65 ·60	·73 ·78 ·74	·87	.96	1.02	1·02 1·08 1·04	1.12	1.14	1·10 1·17 1·17	1·12 1·20 1·19	$1 \cdot 12 \\ 1 \cdot 20 \\ 1 \cdot 20$	1.13	1.14	1·17 1·14 1·23 1·23 1·14	$1 \cdot 15$ $1 \cdot 23$ $1 \cdot 23$	1·15 1·24	1·15 1·24	1.15	1.15	1·15 1·24	$1 \cdot 15 \\ 1 \cdot 24 \\ 1 \cdot 23$	1·15 1·24	1.15	1.15	1.15	$\begin{array}{c} 1 \cdot 15 \\ 1 \cdot 24 \end{array}$	1.15	1·17 — — —	1930 1931 1932 1933 1934
268	1935 1936 1937 1938 1939	·04 ·04 ·05 ·06 ·06	·25 ·23 ·26 ·26 ·23	·46 ·42 ·46 ·46 ·41	·60	·69 ·69 ·71		.93	·92 ·96 1·02	1·03 1·08	1·05 1·09 1·14	1 · 10 1 · 13 1 · 19	1·13 1·16 1·21	1·15 1·18 1·23	1·16 1·19 1·24	1·17 1·20 1·24	1·17 1·20 1·24	1·19 1·18 1·20 1·25 1·23	$1.18 \\ 1.20 \\ 1.25$	1·18 1·20	1.18 1.20	1·18 1·20	1·18 1·20	1·18 1·20	1 · 18	1·19 1·18 —	1 · 19		11111				1935 1936 1937 1938 1939
	1940 1941 1942 1943 1944	·04 ·05 ·04 ·07 ·06	·19 ·20 ·19 ·24 ·26	·38 ·42 ·39 ·44 ·51	· 58 · 53 · 64	·71 ·69 ·81	·84 ·84 ·95	.95	1·05 1·05 1·15	$1 \cdot 11 \\ 1 \cdot 11 \\ 1 \cdot 20$	1.15 1.16 1.24	$1 \cdot 18 \\ 1 \cdot 19 \\ 1 \cdot 27$	$1 \cdot 19$ $1 \cdot 20$ $1 \cdot 29$	$1 \cdot 20$ $1 \cdot 21$ $1 \cdot 30$	$1 \cdot 21$ $1 \cdot 22$ $1 \cdot 31$	$1 \cdot 22$ $1 \cdot 23$ $1 \cdot 31$	1·22 1·23	1·20 1·22 1·23 1·31 1·37	$ \begin{array}{c} 1 \cdot 22 \\ 1 \cdot 23 \\ 1 \cdot 31 \end{array} $	1.22	1·20 1·22 —	1 · 20	<u>-</u>	= = =		11111			11111		11111		1940 1941 1942 1943 1944
	1945 1946 1947 1948 1949	·08 ·08 ·08 ·08	·27 ·27 ·27 ·25 ·26	·54 ·55 ·53 ·50 ·50	·74 ·72 ·68	·89 ·87 ·84	1·01 ·99 ·97	1·13 1·12 1·09 1·07 1·08	1·20 1·17 1·15	1·25 1·22 1·21	1·29 1·26 1·24	1·32 1·29 1·27	1·34 1·31 1·29	$1.35 \\ 1.32$	1.36	1.36	1.37			11111		= = =							11111	11111	11111		1945 1946 1947 1948 1949
	1950 1951 1952 1953 1954	·08 ·08 ·08 ·08	·31 ·29 ·30 ·29 ·30	· 57 · 53 · 54 · 53 · 53	·76 ·70 ·72 ·72 ·72	·86 ·88	·99 1·02 1·02	1·19 1·10 1·13 1·12 1·14	$1.18 \\ 1.22 \\ 1.21$	1.25	1·40 1·29 —	1.43				11111	= =			11111		= =					1-30 		11111		11111		1950 1951 1952 1953 1954
	1955 1956 1957 1958 1959	·08 ·08 ·08 ·08	·31 ·33 ·32 ·33 ·34	·55 ·58 ·57 ·58	·75 ·79 ·78 —	·91 ·97 —	1.05					[[[]]				11111						11118			1111118		11118	11111	11111				1955 1956 1957 1958 1959
	1960	.08	-	-	-		-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	1960

Table 1 (f).—Marriage age 35-39

Table 1 (g).—Marriage age 40-44

Mean family size

Calend				35			Mai	riage	dura	tion ((exact	year	s)										N	Iarria	ge du	ratio	n (ex	act ye	ears)						Calendar
of marria	ige	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	of marriage
1920-	24	.07	·28	•46	• 57	.66	.72	.76	.79	·81	.83	.84	.84	·84	.85	.85	.85	.85	•12	•23	·29	.32	.34	.36	.37	.37	.38	.39	•39	.39	.40	·40	·41	·41	1920–24
192 192 192 192 192	6 7 8	·11 ·11 ·08 ·10 ·11	·32 ·31 ·29 ·28 ·28	·46 ·45 ·41 ·41 ·40	·57 ·54 ·50 ·50 ·50	.56	·68 ·63 ·60 ·59 ·58	·72 ·66 ·63 ·62 ·60	·75 ·68 ·65 ·63 ·62	·77 ·70 ·66 ·64 ·64	·78 ·71 ·67 ·65 ·64	·72 ·68 ·66	·80 ·72 ·68 ·66 ·66	·80 ·72 ·68 ·67 ·66	· 68	·73 ·68 ·67	·80 ·74 ·68 ·67 ·66	·81 ·74 ·68 ·67 ·66	·22 ·13 ·23 ·07 ·07	·27 ·24 ·34 ·14 ·18	·32 ·28 ·37 ·17 ·20	·35 ·30 ·38 ·19 ·21	·37 ·32 ·38 ·20 ·22	·37 ·33 ·39 ·20 ·22	·38 ·33 ·39 ·20 ·22	· 39 · 34 · 39 · 21 · 22	· 39 · 34 · 40 · 21 · 23	· 39 · 35 · 41 · 21 · 24	·39 ·36 ·42 ·21 ·24	·40 ·36 ·42 ·22 ·24	·40 ·36 ·42 ·22 ·24	·40 ·37 ·42 ·22 ·24	·40 ·37 ·42 ·22 ·24	·40 ·37 ·42 ·22 ·24	1925 1926 1927 1928 1929
193 193 193 193 193	1 2 3	·07 ·08 ·12 ·06 ·08	·23 ·27 ·28 ·24 ·26	·39 ·40 ·42 ·38 ·40	·48 ·48 ·50 ·46 ·49	·56 ·54 ·54 ·50 ·55	·60 ·61 ·59 ·54 ·59	·64 ·64 ·62 ·57 ·62	·65 ·66 ·63 ·58 ·64	·66 ·67 ·65 ·59 ·64	·67 ·68 ·65 ·59 ·65	·67 ·68 ·66 ·60 ·65	·68 ·68 ·66 ·60 ·65	·68 ·68 ·66 ·60 ·66	.60	·68 ·69 ·66 ·60 ·66	·68 ·69 ·66 ·61 ·66	·68 ·69 ·66 ·61 ·56	·07 ·12 ·10 ·16 ·17	·17 ·21 ·21 ·25 ·28	·21 ·22 ·21 ·26 ·32	· 24 · 24 · 22 · 26 · 34	·24 ·24 ·22 ·27 ·35	·25 ·24 ·23 ·27 ·36	·26 ·25 ·23 ·27 ·36	·27 ·25 ·24 ·27 ·36	·27 ·25 ·24 ·27 ·36	·27 ·25 ·24 ·27 ·36	·27 ·26 ·24 ·27 ·36	·27 ·26 ·25 ·27 ·36	·27 ·26 ·25 ·27 ·36	·27 ·26 ·25 ·27 ·36	·27 ·26 ·25 ·27 ·36	·27 ·26 ·25 ·27 ·36	1930 1931 1932 1933 1934
269 193 193 193 193 193	6 7 8	·07 ·07 ·08 ·10 ·07	·21 ·24 ·21 ·25 ·19	·31 ·38 ·35 ·37 ·31	·39 ·46 ·44 ·46 ·38	·44 ·53 ·49 ·52 ·45	·47 ·57 ·52 ·56 ·50	·50 ·60 ·54 ·59 ·52	·51 ·63 ·56 ·63 ·56	·53 ·64 ·59 ·65 ·58	· 54 · 65 · 60 · 66 · 59	· 54 · 66 · 61 · 67 · 59	· 54 · 66 · 61 · 67 · 60	· 54 · 67 · 61 · 67 · 60	·64 ·67 ·61 ·67 ·60	·17 ·07 ·08 ·07 ·04	·24 ·13 ·11 ·14 ·10	·26 ·16 ·14 ·18 ·13	·26 ·18 ·16 ·20 ·14	· 27 · 18 · 17 · 21 · 15	·27 ·19 ·17 ·21 ·15	·27 ·19 ·18 ·21 ·15	·27 ·20 ·18 ·21 ·16	·27 ·20 ·18 ·21 ·16	·27 ·20 ·18 ·21 ·16	·27 ·20 ·18 ·21 ·16	·27 ·20 ·18 ·21 ·16	·27 ·20 ·18 ·21 ·16	·27 ·20 ·18 ·21 ·16	·27 ·20 ·18 ·21 ·16	·27 ·20 ·18 ·21 ·16	1935 1936 1937 1938 1939			
1940 194 1942 1942 1944	1 2 3	· 08 · 08 · 07 · 07 · 09	·18 ·20 ·18 ·19 ·20	·30 ·33 ·32 ·33 ·37	·38 ·43 ·41 ·43 ·49	·47 ·50 ·48 ·52 ·58	·51 ·56 ·54 ·58 ·63	·55 ·60 ·58 ·62 ·67	·58 ·63 ·61 ·64 ·68	·60 ·65 ·62 ·66 ·70	·61 ·65 ·63 ·66 ·70	·61 ·66 ·63 ·66 ·70	·61 ·66 ·63 ·67 ·70	·61 ·66 ·63 ·67 ·70	·61 ·66 ·63 ·67 ·70	·61 ·66 ·63 ·67 ·70	·61 ·66 ·63 ·67 ·70	·61 ·66 ·63 ·67 ·70	·13 ·11 ·09 ·06 ·08	·16 ·14 ·13 ·12 ·13	·20 ·19 ·19 ·17 ·18	·21 ·21 ·21 ·19 ·21	·22 ·23 ·22 ·21 ·22	·23 ·24 ·23 ·22 ·23	·23 ·24 ·24 ·22 ·23	·24 ·24 ·24 ·22 ·23	·24 ·24 ·24 ·22 ·23	·24 ·24 ·24 ·22 ·23	·24 ·24 ·24 ·22 ·23	·24 ·24 ·24 ·22 ·23	·24 ·24 ·24 ·22 ·23	·24 ·24 ·24 ·22 ·23	·24 ·24 ·24 ·22 ·23	·24 ·24 ·24 ·22 ·23	1940 1941 1942 1943 1944
194: 1940 1947 1948 1949	6 7 8	· 09 · 09 · 09 · 09	·23 ·22 ·21 ·21 ·21	·40 ·41 ·39 ·38 ·37	·53 ·52 ·50 ·49 ·48	·61 ·60 ·58 ·57 ·55	·66 ·63 ·62 ·61	·70 ·69 ·66 ·65 ·64	·71 ·71 ·68 ·67 ·66	·72 ·72 ·70 ·68 ·67	·73 ·73 ·70 ·69 ·68	·73 ·73 ·70 ·69 ·68	·73 ·74 ·71 ·69 ·68	·73 ·74 ·71 ·69	·73 ·74 ·71 —	·73 ·74 —	·73 — — —		·11 ·11 ·11 ·11 ·11	·15 ·15 ·15 ·14 ·14	·20 ·20 ·20 ·19 ·18	·23 ·23 ·22 ·21 ·20	·24 ·24 ·24 ·22 ·21	·25 ·25 ·24 ·23 ·22	·25 ·25 ·24 ·23 ·22	·25 ·25 ·24 ·23 ·22	·25 ·25 ·24 ·23 ·22	·25 ·25 ·24 ·23 ·22	·25 ·25 ·24 ·23 ·22	·25 ·25 ·24 ·23 ·22	·25 ·25 ·24 ·23	·25 ·25 ·24 —	·25 ·25 —	·25 — — —	1945 1946 1947 1948 1949
1950 1953 1953 1954	3	· 09 · 09 · 09 · 09 · 09	·24 ·22 ·22 ·23 ·23	·41 ·37 ·37 ·40 ·40	·52 ·48 ·47 ·50 ·50	·60 ·55 ·54 ·57 ·58	·66 ·60 ·59 ·62 ·63	·70 ·63 ·62 ·66 ·67	·72 ·65 ·64 ·68	·73 ·66 ·66 —	·74 ·67 —	·74 — — —	= = =	=		=			·11 ·11 ·11 ·11 ·11	·15 ·15 ·15 ·15 ·15	·19 ·18 ·18 ·18 ·19	·21 ·20 ·21 ·20 ·22	·22 ·21 ·22 ·21 ·22	·23 ·21 ·22 ·22 ·23	·23 ·22 ·22 ·22 ·23	·23 ·22 ·22 ·22	·23 ·22 ·22	·23 ·22 —	·23 	= = = = = = = = = = = = = = = = = = = =	_				1950 1951 1952 1953 1954
1958 1950 1958 1958 1959	5 7 8	· 09 · 09 · 09 · 09 · 09	·25 ·26 ·26 ·26 ·27	·40 ·42 ·42 ·44	·51 ·54 ·55 —	· 59 · 63 —	·65 — — —					_ _ _ _	=		= = =				·11 ·11 ·11 ·11 ·11	·15 ·17 ·15 ·16 ·16	·19 ·21 ·18 ·21	·21 ·23 ·20	·22 ·24 —	·23 		_ _ _ _	=		<u>-</u>	_		= = = = = = = = = = = = = = = = = = = =	= = = = = = = = = = = = = = = = = = = =		1955 1956 1957 1958 1959
1960		.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	·11	-	-	-	-	-	-	-	-	-	$- \ $	-	-	-	-	-	1960

Table 2 (a).—All marriage ages under 45

Fertility rates

	Calendar					1 .00								Mari	iage	durat	ion (co	omple	eted y	ears)	34												Calendar
	of marriage	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	year of marriage
	1920–24	-367	-297	-222	-189	.164	.146	·128	-118	· 101	.087	.076	.065	.057	.050	.044	-037	.030	.026	.022	-018	014	-010	.008	.005	.004	002	-001	-000	.000	.000	.000	1920–24
	1925 1926 1927 1928 1929	·338 ·342 ·319	·265 ·256 ·276	·199 ·193 ·194	·170 ·170 ·168	·150 ·150 ·141	.126	·114 ·111 ·107	·097 ·104 ·103	·092 ·090 ·089	·080 ·079 ·080	·072 ·066 ·070	·058 ·061 ·059	·053 ·049 ·046	·045 ·041 ·044	·042 ·037	·037 ·036 ·038	·031 ·032	·031 ·031 ·030	·024 ·025	·019 ·022 ·019 ·018 ·016	·016 ·017 ·015 ·014 ·011	·013 ·009 ·009	.006	·005 ·004 ·003	·002 ·002 ·002	·002	·000 ·000	·000 ·000 ·001 ·000 ·000	·001 ·000 ·000	·000	·000 ·000	1925 1926 1927 1928 1929
	1930 1931 1932 1933 1934	·332 ·329 ·326 ·315 ·314	·250 ·239 ·249	·184 ·187 ·183	·166 ·165 ·163	· 149 · 146 · 149 · 145 · 144	·133 ·128 ·130	·116 ·116 ·113	·101 ·097 ·082	·087 ·074 ·079	· 073 · 068 · 074 · 083 · 097	·066 ·075 ·083	·063 ·074 ·079	·065 ·073	·056 ·061 ·066	.057	·049 ·045	·036 ·031 ·028	·027 ·025 ·025 ·020 ·018	·019 ·016 ·014	·012 ·011	·008 ·009 ·009	·006 ·007 ·006	·005 ·005 ·004 ·003 ·003	·003 ·003 ·003	·001 ·002 ·001	.002	.000	·001 ·000 ·000			11111	1930 1931 1932 1933 1934
270	1935 1936 1937 1938 1939		·237 ·239 ·236	·188 ·180 ·169	·161 ·137 ·150	·132 ·123 ·125 ·151 ·168	.115	·118 ·136 ·139	·121 ·122 ·128	·110 ·119 ·134	·100 ·116 ·106	.079	·076 ·068 ·064	·056 ·055 ·053	·044 ·042 ·039	·034 ·032 ·030	·030 ·025 ·026 ·026 ·026	·021 ·020 ·020	·018 ·017 ·015	·013 ·013 ·012 ·013 ·014	·009 ·010 ·010		·005 ·006 ·005 ·006	·004 ·003 ·003	·002 ·002 —	·002	= =	11111	11111		11111		1935 1936 1937 1938 1939
	1940 1941 1942 1943 1944	·189 ·186 ·196 ·241 ·246	·236 ·241 ·259		·178 ·190 ·222	·161 ·172 ·207 ·203 ·183	·194 ·186 ·165	·166 ·147 ·138	·124 ·121 ·112	·101 ·099 ·088	.081	·069 ·065 ·067 ·066 ·063	·056 ·059 ·055	·050 ·049 ·046	.041	·033 ·034 ·035	·028 ·030	·023 ·026 ·025	.020	·014 ·015 —	·012 				11111	===	=======================================		11111	11111	11111		1940 1941 1942 1943 1944
	1945 1946 1947 1948 1949	·237 ·283 ·301 ·293 ·290	·330 ·313 ·298	·234 ·227 ·221	·194 ·190 ·197		·149 ·153 ·157	·125 ·128 ·128	·109 ·108 ·111	·091 ·093 ·097	.076	·066 ·072 ·073	·058 ·059	·049 ·051		·034 — — —	11111	11111	11111		=======================================						=======================================				11111		1945 1946 1947 1948 1949
	1950 1951 1952 1953 1954	·303 ·267 ·273 ·274 ·275	·266 ·267 ·266	·214 ·214	·207 ·217	·186 ·195 ·204	.177	.147	·131 ·126 ·129	·111 ·104 —	·095		11111	11111	11111		KI411	11111	11111	11111		====	11111			=				11111	11111	11111	1950 1951 1952 1953 1954
	1955 1956 1957 1958 1959	.296	·277 ·279 ·285	·237 ·251 ·252 —	·226 ·234 — —	·207 		= = =		=======================================							11111			=======================================						= = =	11111		111111				1955 1956 1957 1958 1959

Table 2 (b).—Marriage age under 20

Fertility rates

	Calendar	566												Mar	riage	durat	ion (compl	eted y	ears)	-												Calendar
	of marriage	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	year of marriage
	1920–24	-535	-352	-280	-236	-219	202	. 177	179	-156	· 141	139	-122	115	104	100	092	079	077	.067	-061	050	046	.037	.031	.022	.016	.008	.003	-001	001	.000	1920–24
	1925 1926 1927 1928 1929	· 556 · 580 · 564	·315 ·295 ·342	·256 ·235 ·240	·209 ·213 ·231	.199	· 182 · 169 · 171	·156 ·155 ·154	· 145 · 152 · 160	·146 ·127 ·136	·138 ·149 ·140	·133 ·119 ·112	·111 ·112 ·111	·110 ·104 ·099	· 095 · 098 · 102	· 084 · 090 · 091 · 099 · 090	· 082 · 093 · 091	·077 ·072 ·096	·076 ·101 ·091	·072 ·075 ·085	·075 ·067 ·066	·063 ·051 ·050	·047 ·036 ·036	·032 ·026 ·028	·022 ·018 ·017	·013 ·012	·009 ·009	·004 ·004 ·005	·003 ·003 ·003 ·002 ·002	·002 ·001 ·001	·000 ·001 ·001	·000 ·000	1925 1926 1927 1928 1929
	1930 1931 1932 1933 1934	·609 ·591 ·595	·292 ·298 ·298	·226 ·244 ·232	·218 ·205 ·205	.194	·180 ·172 ·173	·165 ·169 ·154	·152 ·137	·144 ·128 ·122	·120 ·130 ·133	·118 ·125 ·136	·110 ·127 ·127	·114 ·113 ·131	·107 ·125 ·139	·109 ·095 ·128 ·117 ·101	·111 ·107 ·091	· 093 · 089 · 081 · 073 · 067	·069 ·075 ·059	·054 ·052 ·046	·044 ·040 ·038	·037 ·038 ·035	·031 ·028 ·030 ·027 ·025	·023 ·022 ·021	·017 ·015 ·014	·011 ·011 ·010		·004 ·004	·002 ·002 ·002 —		·001 _ _ _		1930 1931 1932 1933 1934
271	1935 1936 1937 1938 1939	· 581 · 562 · 580	·306 ·298 ·312	·241 ·239 ·229	·216 ·187 ·194	.182	·159 ·179 ·173	·170 ·166 ·158		·153 ·172 ·182	·159 ·179 ·152	.124		·113 ·105 ·096	·093 ·089 ·078	·077 ·077 ·069	·065 ·069 ·062	·058 ·058 ·063 ·055 ·060	·052 ·056 ·047	·044 ·046 ·043	·039 ·041 ·038	·034 ·034			·014 ·013 —	·010 						=	1935 1936 1937 1938 1939
	1940 1941 1942 1943 1944	·289 ·280 ·318	·272 ·252 ·274	·216 ·229 ·242	·198 ·221 ·254	·187 ·208 ·251 ·246 ·225	·251 ·237 ·205	·225 ·187 ·174	· 169 · 157 · 147	·140 ·134 ·127	·127 ·114 ·115		·097 ·093 ·085	·086 ·082 ·074	·066 ·070 ·067	·063 ·063 ·061				· 039 · 038 —	·036		=			=			=			=	1940 1941 1942 1943 1944
	1945 1946 1947 1948 1949	·382 ·429 ·440	·386 ·376 ·363	·285 ·274 ·268	·238 ·238 ·247		·192 ·193 ·205	·173 ·169 ·173	· 149 · 153 · 148 · 151 · 154	· 131 · 135 · 139	·119 ·122 ·131	·100 ·111 ·116 ·117 ·116	.098			·063	11111	= = =				= =				=			-			=	1945 1946 1947 1948 1949
	1950 1951 1952 1953 1954	·429 ·437 ·444	·318 ·318 ·316	·277	·258 ·260 ·268	-251	·214 ·219	.194			138				= = = = = = = = = = = = = = = = = = = =					=======================================	=	=======================================		-	2 - 6 3				-	=	=======================================		1950 1951 1952 1953 1954
	1955 1956 1957 1958 1959		· 326 · 327	· 284 · 295 · 297 —		·235				=	=		= = = = = = = = = = = = = = = = = = = =	=======================================	=	=		=	=======================================		=	= = = = = = = = = = = = = = = = = = = =	= = = = = = = = = = = = = = = = = = = =	-			=	=	_		-		1955 1956 1957 1958 1959

	Calendar year	1.13												Mar	riage	durat	ion (c	compl	eted :	ears)					2017								Calendar
	of marriage	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	year of marriage
	1920–24	-409	.319	242	2 206	182	·165	·146	·135	-120	-105	.092	.080	-072	.064	-057	.049	-041	.034	.029	.024	.018	.012	.009	006	.003	-001	.001	.000	.000	.000	.000	1920–24
	1925 1926 1927 1928 1929	· 382 · 389 · 355	· 289 · 280 · 301	21:	1 · 192	·160 ·172 ·169 ·159 ·160	·151 ·143 ·142	·130 ·123 ·123	·112 ·123 ·121	·110 ·107 ·106	·095 ·092 ·093	·087 ·077 ·087	·073 ·072 ·072	·068 ·061 ·057	·057 ·051 ·054	·056 ·046 ·047	.049	·045 ·044 ·049	·045 ·040 ·038	·034 ·032 ·030	·028 ·024 ·022	·022 ·018 ·016	·015 ·011 ·011	· 009 · 009 · 007 · 007 · 005	·005 ·004 ·002	·002 ·002 ·002	.002	.000	·000 ·000		.000		1925 1926 1927 1928 1929
	1930 1931 1932 1933 1934	· 362 · 360 · 343	· 279 · 260 · 272	0 · 198 0 · 200 2 · 199	$ \begin{array}{c c} $	·166 ·160 ·165 ·156 ·156	·150 ·142 ·145	·129 ·131 ·132	·115 ·112 ·096	·098 ·084 ·093	·080 ·085 ·093	·078 ·089 ·099	·075 ·087 ·095	·081 ·092 ·083	·073 ·077 ·084	·070	·062 ·054 ·047	·046 ·038 ·037	.026	·025 ·021 ·018	·017 ·014	·009 ·011 ·010	·007 ·007 ·007	·005 ·005 ·005 ·003 ·004	·002 ·002 ·002	·001 ·001 ·001	·001 ·001 ·001 ·000 ·000			111		11111	1930 1931 1932 1933 1934
272	1935 1936 1937 1938 1939	·336 ·322 ·301 ·298 ·228	· 252 · 254	2 · 20: 3 · 19: 4 · 17:	3 · 174 2 · 154 9 · 167	· 146 · 139 · 139 · 164 · 184	·125 ·149 ·163	·130 ·149 ·153	·134 ·132 ·142	·128 ·137 ·153	·111 ·120 ·134 ·122 ·106	·115 ·109 ·093	·092 ·082 ·077	·070 ·067 ·066	·055 ·054 ·048	·045 ·040 ·037	·033 ·032 ·031	·030 ·028 ·026 ·026 ·028	·021 ·019	·017 ·015 ·015	·014 ·012 ·012 ·012 ·012		·006 ·005	.003	·002 ·002 —		= = =			1111	11111	11111	1935 1936 1937 1938 1939
	1940 1941 1942 1943 1944	· 179 · 192 · 244	· 24 · 25 · 28	8 · 20 8 · 20 0 · 20	5 · 191 2 · 197 2 · 236	· 175 · 184 · · 223 · · 217 · · 192	·210 ·199 ·176	·181 ·158 ·149	·135 ·133 ·123	·111 ·110 ·096	·095 ·092 ·088	·071 ·074 ·071	·062 ·064 ·060	·057 ·055 ·051	·045 ·045 ·046	·039 ·039 ·040	·031 ·033 ·034	·027 ·028 ·028	.023	·016 ·017 —	·012 	11111	1111	11111							11111	11111	1940 1941 1942 1943 1944
	1945 1946 1947 1948 1949	· 297 · 311 · 297	· 34 · 32 · 30	8 · 24 6 · 23 6 · 22	6 · 206 5 · 199 7 · 203	3 · 184 5 · 180 9 · 180 8 · 185 6 · 188	· 163 · 162 · 166	·135 ·136 ·135	·118 ·117 ·119	·099 ·100 ·105	·083 ·086 ·091	·073 ·078 ·078	·064 ·066 ·066	·056	.047					1111				=======================================		_ _ _ _		1111		11111	11111		1945 1946 1947 1948 1949
	1950 1951 1952 1953 1954	· 249 · 253 · 249	· 26 · 26 · 26	7 ·21 9 ·21 4 ·22	3 · 20° 2 · 21° 5 · 22°	3 · 200 7 · 191 2 · 202 2 · 209 5 · 214	· 177 · 186 · 189	·155 ·159 ·163	·134 ·137	.111	·102 — — —	1111			11111		11111	11111		11111		=======================================			1 1 1	= = = = = = = = = = = = = = = = = = = =				11111			1950 1951 1952 1953 1954
	1955 1956 1957 1958 1959	· 267 · 268	·27 ·27 ·27	0 · 24 2 · 24 6 —	-	·216 — — —							=======================================	====	===		=======================================		====			=======================================	=======================================	=======================================				_ _ _ _		===			1955 1956 1957 1958 1959

Table 2 (d	.—Marriage	age	25-29
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Fertility rates

	Calendar	7370		188	- 182	176								M	[arria	ge du	ration	exa	ct yea	ars)													Calendar
	of marriage	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	of marriage
	1920–24	302	.285	·205	.175	·149	-130	·112	·102	.083	.070	.056	.047	.036	-030	.023	-016	·010	.007	.005	.003	-001	.001	.001	.000	.000	-	-		-	-	_	1920–24
	1925 1926 1927 1928 1929	·254 ·244 ·238	·247 ·236 ·251	·190 ·178 ·180	·156 ·151 ·154	·128 ·132 ·132	108	·100 ·105 ·093	·084 ·086 ·084	·071 ·077 ·074	·064 ·062 ·062	·053 ·051 ·054	·041 ·048 ·040	·029 ·031 ·030	·026 ·024 ·026	·020 ·021	·017	·008 ·008 ·011 ·012 ·014	·006 ·007 ·008	·005 ·006 ·008	·004 ·006 ·006	·005 ·004 ·003	.002	·001 ·000 ·000	·000 ·000	·000 ·000 ·000	=		11111			11111	1925 1926 1927 1928 1929
	1930 1931 1932 1933 1934	·233 ·230 ·227	·229 ·217 ·231	·174 ·173 ·174	·156 ·151 ·153	·132 ·137 ·137	120	·104 ·101 ·097	·088 ·080 ·064	·074 ·059 ·061	·052 ·061 ·073	·049 ·057 ·065	·047 ·059 ·062	·046 ·054 ·043	·033 ·036 ·037	·026 ·025 ·034 ·028 ·024	·024 ·025 ·019	.012	·009 ·009 ·006	·006 ·004 ·003	·002	·002 ·001 ·001	·000 ·000 ·000	.000	·000	.000			11111				1930 1931 1932 1933 1934
273	1935 1936 1937 1938 1939	·218 ·199 ·216	·225 ·223 ·208	·175 ·170 ·156	·153 ·118 ·134	·112 ·144	·110 ·141	·110 ·139 ·139	·120 ·123 ·123	·096 ·108 ·125	·081 ·105 ·097	·079 ·081 ·068	·057 ·054 ·049	·038 ·037 ·038	·027 ·025	·018 ·017	·012 ·012 ·012	·008 ·008 ·007 ·007 ·009	·005 ·005 ·004	·003 ·002 ·003	·001 ·001 ·001	·001 ·001 ·001 ·001 ·001	_	_	_			11111	1111		11111		1935 1936 1937 1938 1939
	1940 1941 1942 1943 1944	·157 ·170 ·217	·219 ·236 ·249	·180 ·177 ·214	·174 ·187 ·212	·163 ·188 ·187	·158 ·175 ·164 ·152 ·141	·148 ·130 ·123	·110 ·104 ·097	·088 ·081 ·069	·066 ·065 ·064	·045 ·049 ·049	· 040 · 041 · 041	·032 ·031 ·030	·022	·015 ·016 ·016	.012	.008	·005 ·004 ·005 —	·003 ·003 — —	·002 	<u>-</u>					=======================================	11111		11111	11111		1940 1941 1942 1943 1944
	1945 1946 1947 1948 1949	·262 ·272 ·255	·317 ·298 ·283	·223 ·219 ·217	·185 ·182 ·192	·158 ·171 ·173	·139 ·137 ·155 ·148 ·147	·113 ·121 ·118	·101 ·102 ·100	·081 ·083 ·084	·066 ·069 ·070	.055	· 045 · 045	.035	·026 ·027 — —	·018												11111		11111	11111		1945 1946 1947 1948 1949
	1950 1951 1952 1953 1954	·225 ·227 ·225	·257 ·257 ·257	·204 ·206 ·220	·192 ·193 ·204	·176 ·179	·158 ·154 ·162 ·165 ·172	·130 ·135	-108	· 095 · 088 — —	· 078											11111					11111			11111	11111		1950 1951 1952 1953 1954
	1955 1956 1957 1958 1959	·258 ·265	·269 ·269 ·272 ·280	.247		·196	11111	=	= = = = = = = = = = = = = = = = = = = =			= = = = = = = = = = = = = = = = = = = =	= = = = = = = = = = = = = = = = = = = =	= = =				= = =	=======================================					= = = = = = = = = = = = = = = = = = = =	<u>-</u>	11111	11111		= = =				1955 1956 1957 1958 1959

	Calendar				- 331	-100								M	arria	ge du	ration	(exac	et yea	rs)				7		70.00	-	*****					Calendar
	of marriage	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	year of marriage
	1920–24	-276	·244	·182	.152	121	103	.082	.068	.046	.036	.025	.021	.012	.007	.005	.004	.002	.002	.001	.001	.000	.000	.000		-	-			-		-	1920–24
	1925 1926 1927 1928 1929	·268 ·228 ·241 ·211 ·226	·207 ·221 ·222	·156 ·164 ·151	·121 ·130 ·114	.101	·072 ·100 ·082	·063 ·062 ·059	·057 ·055 ·054	·044 ·038 ·027	·021 ·031 ·031	·020 ·028 ·019	·008 ·015 ·010	·009 ·007 ·006	·007 ·002 ·003	·004 ·001 ·004	·000 ·000 ·002	·001 ·002	·000 ·001 ·002	·001 ·001 ·001	·000 ·000	.000 .000	.000	·000	111111		11111		11111		11111		1925 1926 1927 1928 1929
	1930 1931 1932 1933 1934	·207 ·211 ·239 ·223 ·210	·186 ·188 ·196	·142 ·162 ·139	·130 ·135	·098 ·097	·073 ·082 ·091	·072 ·067 ·061	·049 ·056 ·049	·029 ·039 ·055	·028 ·026 ·027 ·035 ·038	·024 ·023 ·039	·016 ·029 ·023	·009 ·008 ·014	·007 ·011 ·012		·006 ·006 ·005		·002 ·002 ·001	·001 ·000 ·000	·000 ·000 ·000 ·000	·000 ·000 ·000	.000	.000	11111				11111	11111	11111		1930 1931 1932 1933 1934
274	1935 1936 1937 1938 1939	·196 ·207 ·202	·189 ·200 ·207	·151 ·140 ·130	·117 ·098 ·116		·074 ·090 ·115	·077 ·089 ·093	·075 ·073 ·061	·060 ·055 ·061	·042 ·042 ·042	·031 ·029 ·025	·022 ·019 ·017	·013 ·012 ·010	·008 ·005 ·005	·002	·001 ·002 ·002	.000	.000	.000	.000			=	11111		=======================================	11111			11111		1935 1936 1937 1938 1939
	1940 1941 1942 1943 1944	·154 ·152 ·171	·215 ·198 ·202	·159 ·142 ·194	·130 ·160 ·172	.143	.111	·094 ·090 ·083	·063 ·063 ·057	·042 ·043 ·037	·028 ·029 ·028	·014 ·016	·012 ·011 ·012 ·013 ·011	·009 ·009 ·006	·003 ·004 ·004	·002	·001 ·001 ·001 ·001 ·001		11	111			11111		11111		= = =	11111			11111	= = = = = = = = = = = = = = = = = = = =	1940 1941 1942 1943 1944
	1945 1946 1947 1948 1949	· 188 · 194 · 191 · 175 · 176	·277 ·263 ·247	.187	·152 ·149 ·153	·122 ·121 ·130	·104 ·101 ·105	·077 ·076 ·076	·057 ·058 ·056 ·058 ·062	·041 ·040 ·038	·027 ·030	.019	·012 ·013 ·012 ·011	·007 ·007 ·008 —	·004 ·003 — —	·001		11111	11111	11111			11111		11111			11111				= = =	1945 1946 1947 1948 1949
	1950 1951 1952 1953 1954	·217	·240 ·245 ·243	·174 ·178 ·186	·155 ·163 ·157	·137 ·136	·117 ·109 ·114 ·107 ·112	·085 ·086	·071 ·061 ·065 —	·050 ·046 —	·036			11111	11111			11111	11111	11111			11111		11111			11111				= =	1950 1951 1952 1953 1954
	1955 1956 1957 1958 1959	.250	·247 ·250 ·257	·198 ·212 ·206 —	·162 ·177 —	·138 _ _ _ _			111111		= = = = = = = = = = = = = = = = = = = =		= = =			=======================================	11111	11111			= = = = = = = = = = = = = = = = = = = =		11111					11111					1955 1956 1957 1958 1959

Table 2 (f).—Marriage age 35–39

Fertility rates

Table 2 (g).—Marriage age 40-44

	Calendar	- Bri		100	- 100 m	M	arriag	ge dur	ation	(com	pletec	l years	s)	GOR.	-sign	-0.3		H	1000	112	1 -1	Mari	riage (lurati	ion (c	ompl	eted y	ears)		-00	0 1		Calendar
	of marriage	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	of marriage
	1920–24	-213	.176	108	.092	.062	.041	.029	.021	.015	.007	.007	.003	.002	.002	.000	001	117	.058	.029	.023	-015	010	.006	.011	.006	.003	.003	.005	.003	.002	.001	1920–24
	1925 1926 1927 1928 1929	·199 ·208 ·182	·142 ·124 ·131	·108 ·083 ·088 ·089 ·094	·061 ·059 ·064	.038	·030 ·029 ·034	·031 ·026 ·019 ·013 ·027	·012 ·008	·007 ·010 ·010	·009 ·007 ·008	·001 ·003	·002 ·003 ·003	·005 ·000 ·004	·003 ·002 ·002	·002 ·003 ·003 ·001 ·000	·001 ·001 ·000	· 109 · 107 · 065	·034 ·030 ·037	·028 ·008 ·012	·013 ·005 ·010	·002 ·008 ·007 ·005 ·006	·004 ·004 ·002	·007 ·002 ·003	·006 ·011 ·000	·003 ·006 ·006	·013 ·007 ·000	.004	·000 ·000 ·003	·003 ·000 ·000	·004 ·000	·000 ·000	1925 1926 1927 1928 1929
	1930 1931 1932 1933 1934	·187 ·160 ·178	·125 ·131 ·140	·082 ·085 ·076	·065 ·041 ·043	.045	·033 ·030 ·032	·016 ·018 ·010	.015	·008 ·004 ·001	·007 ·005 ·005	·000 ·000 ·001	·001 ·000 ·002	·000	·002 ·001 ·001		.000 .000	·087 ·109 ·097	·013 ·007 ·006	·015 ·007 ·003	·005 ·004 ·006	·009 ·000 ·005 ·001 ·002	·004 ·001 ·001	·000 ·007 ·000	.000 .000	·004 ·004 ·000	·000 ·004 ·003 ·000 ·000	.003	·000 ·000	·000 ·000		·000 ·000	1930 1931 1932 1933 1934
275	1935 1936 1937 1938 1939	· 166 · 134 · 151	·137 ·134 ·124	·085 ·094 ·087	·067 ·044 ·058	·029 ·041 ·030 ·043 ·056	·027 ·024 ·033	·032 ·024 ·039	.028	·013 ·010 ·011	·006 ·005 ·006	.004	·002 ·002 ·002	·002 ·001 ·000	·001 ·000 ·000	·001 ·000 ·000 ·000 ·000	.000 .000	·061 ·032 ·077	·029 ·026 ·031	·014 ·019 ·024	·005 ·008 ·008	·004 ·010 ·007 ·003 ·004	·001 ·002 ·002	·002 ·000 ·000	·003 ·000 ·001	·000 ·002 ·001 ·000 ·000	·000 ·000	.000	·000 ·000	·000 ·000	·000 ·000 ·000	·000 ·000	1935 1936 1937 1938 1939
	1940 1941 1942 1943 1944	·117 ·109 ·116	·137 ·137 ·145	·095 ·089 ·102	.076	·065 ·062	·044 ·043 ·038	·029 ·024 ·022	·019 ·015 ·015 ·012 ·010	·006 ·005 ·005	·003 ·002 ·003	·001 ·001 ·002 ·002 ·001	·001	.000		.000		·033 ·041	·045 ·055 ·050	·023 ·024 ·023	·017 ·012 ·016	·005 ·010 ·007 ·008 ·007	·003 ·005 ·004	·002 ·002 ·002	·000 ·001 ·000		·000 ·000	·000 ·000 ·000	.000	.000		.000	1940 1941 1942 1943 1944
	1945 1946 1947 1948 1949	·136 ·125 ·121	·183 ·174 ·169	·113 ·114 ·110	·082 ·076 ·077	.049	·035 ·034 ·034	·021 ·021 ·020	·010 ·012 ·014 ·010 ·010	·006 ·006 ·006	·003 ·003 ·003	·001 ·002 ·001 ·001 ·001	_	_		=		·040 ·040 ·038 ·036 ·036	·051 ·050 ·047	·028 ·029 ·023	·014 ·012 ·006	·007 ·007 ·005 ·006 ·006	·003 ·003 ·003	·002 ·000	.000	·000	.000	32	_	_			1945 1946 1947 1948 1949
	1950 1951 1952 1953 1954		·155 ·151 ·164	·095 ·098	·075 ·072 ·078	·057 ·050 ·048 ·048 ·052	.030	·019 ·021 ·020	·015 ·012 ·012 —	·006 ·005 —	·004 		===		11111		11111	·042 ·039 ·041	·034 ·033 ·035 ·035 ·043	·020 ·024 ·020	·007 ·009 ·009	·004 ·004	·003 ·002 ·002 ·002 ·002	_	=		=						1950 1951 1952 1953 1954
	1955 1956 1957 1958 1959	168	·167	·120 ·128	.081	·060 		11111					= = = = = = = = = = = = = = = = = = = =		11111			·059 ·041	·039 ·039 ·035 ·045	.021		·006 	11111									= = = = = = = = = = = = = = = = = = = =	1955 1956 1957 1958 1959

APPENDIX B

FERTILITY RATES BY BIRTH ORDER, ENGLAND AND WALES, 1960

Live births per woman married once only, irrespective of parity

Figures are rounded and may not add to totals

1960

	120			12 -0.12	102		1550 10 1550 16					A	ge at m	arriage												1000
	Calendar year		All	ages u	nder 4	15				Under	20					20-	24				0 1900	25-2	29			Calendar year
	of marriage	130		100			G12 13				N	Numbe	r of pre	vious chi	ldren				12 - EGE	nen de	(F) (COS)	-000	mon			of marriage
		Total	0	1	2	3	4 or more	Total	0	1	2	3	4 or more	Total	0	1	2	3	4 or more	Total	0	1	2	3	4 or more	18/0
270	1960 1959 1958 1957 1956	·120 ·351 ·266 ·249 ·229	·118 ·328 ·153 ·092 ·063	·001 ·022 ·105 ·126 ·114	·000 ·001 ·007 ·027 ·043	·000 ·000 ·001 ·003 ·008	·000 ·000 ·000 ·001 ·001	·210 ·423 ·315 ·290 ·260	·209 ·385 ·142 ·076 ·046	·001 ·037 ·162 ·164 ·128	·000 ·001 ·010 ·047 ·069	·000 ·000 ·003 ·014		·090 ·332 ·257 ·246 ·236	·089 ·313 ·161 ·103 ·072	·001 ·017 ·090 ·119 ·118	·000 ·001 ·006 ·022 ·038	·000 ·000 ·000 ·002 ·007	·000 ·000 ·000 ·000 ·001	·086 ·343 ·263 ·247 ·224	·083 ·323 ·168 ·102 ·069	·002 ·017 ·084 ·119 ·111	·001 ·002 ·008 ·022 ·034	·000 ·001 ·001 ·003 ·007	·000 ·000 ·001 ·001 ·002	1960 1959 1958 1957 1956
	1955 1954 1953 1952 1951	·200 ·173 ·146 ·124 ·099	·043 ·030 ·021 ·015 ·010	·093 ·072 ·056 ·042 ·030	·046 ·045 ·040 ·035 ·028	·015 ·018 ·019 ·018 ·016	·004 ·007 ·010 ·013 ·014	·228 ·208 ·181 ·166 ·139	·031 ·022 ·015 ·012 ·009	·095 ·073 ·057 ·043 ·031	·069 ·066 ·056 ·049 ·040	·027 ·034 ·033 ·033 ·028	·006 ·014 ·021 ·029 ·031	·209 ·180 ·155 ·131 ·106	·051 ·036 ·025 ·017 ·012	·100 ·079 ·063 ·048 ·035	·042 ·043 ·041 ·037 ·030	·012 ·016 ·017 ·017 ·016	·003 ·006 ·009 ·011 ·013	· 193 · 162 · 130 · 107 · 081	·046 ·031 ·021 ·016 ·011	·092 ·072 ·052 ·039 ·027	·040 ·040 ·035 ·029 ·022	·011 ·013 ·014 ·013 ·012	·004 ·005 ·008 ·009 ·009	1955 1954 1953 1952 1951
	1950 1949 1948 1947 1946	·093 ·070 ·059 ·048 ·039	·008 ·005 ·004 ·003 ·002	·024 ·016 ·012 ·008 ·006	·026 ·020 ·016 ·013 ·010	·017 ·013 ·011 ·010 ·008	·017 ·016 ·016 ·015 ·014	·140 ·112 ·096 ·085 ·072	·006 ·005 ·004 ·003 ·002	·026 ·017 ·014 ·011 ·007	·039 ·030 ·023 ·020 ·016	·030 ·024 ·020 ·019 ·015	·038 ·036 ·036 ·033 ·032	·100 ·075 ·064 ·054 ·045	·010 ·006 ·005 ·003 ·002	·028 ·019 ·014 ·010 ·007	·029 ·021 ·018 ·015 ·012	·017 ·014 ·012 ·011 ·009	·016 ·015 ·015 ·015 ·015	·074 ·053 ·043 ·032 ·024	·008 ·005 ·004 ·002 ·001	·021 ·014 ·010 ·006 ·004	·021 ·015 ·012 ·009 ·006	·012 ·009 ·008 ·006 ·005	·011 ·010 ·010 ·009 ·007	1950 1949 1948 1947 1946
	1945 1944 1943 1942 1941	·033 ·028 ·024 ·019 ·014	·001 ·001 ·001 ·001 ·000	·004 ·003 ·002 ·002 ·001	·008 ·006 ·005 ·004 ·003	·007 ·006 ·005 ·004 ·003	·012 ·012 ·011 ·009 ·007	·060 ·055 ·046 ·043 ·036	·002 ·001 ·001 ·001 ·001	·006 ·004 ·004 ·004 ·002	·012 ·011 ·009 ·008 ·006	·013 ·012 ·009 ·008 ·006	·028 ·026 ·023 ·022 ·021	·037 ·031 ·027 ·021 ·016	·002 ·001 ·001 ·001 ·000	·005 ·004 ·003 ·002 ·002	·009 ·007 ·006 ·004 ·003	·008 ·007 ·005 ·005 ·003	·012 ·012 ·012 ·009 ·007	·017 ·011 ·006 ·004 ·002	·001 ·001 ·000 ·000	·003 ·001 ·001 ·000 ·000	·005 ·003 ·001 ·001 ·001	·004 ·002 ·001 ·001 ·000	·005 ·004 ·003 ·002 ·001	1945 1944 1943 1942 1941
	1940 1939 1938 1937 1936	·011 ·008 ·005 ·003 ·002	·000 ·000 ·000	·001 ·000 ·000 ·000 ·000	·002 ·001 ·001 ·000 ·000	·002 ·001 ·001 ·000 ·000	·006 ·005 ·003 ·002 ·001	·034 ·031 ·023 ·019 ·012	·000 ·000 ·000 ·000	·002 ·001 ·001 ·001 ·000	·006 ·004 ·002 ·002 ·001	·006 ·005 ·003 ·002 ·002	·020 ·021 ·016 ·014 ·009	·011 ·007 ·005 ·003 ·001	·000 ·000 ·000	·001 ·000 ·000 ·000 ·000	·002 ·001 ·001 ·000 ·000	·002 ·001 ·001 ·000 ·000	·005 ·004 ·003 ·002 ·001	·001 ·001 ·000	.000	-000 -000	·000 ·000	·000 ·000	·001 ·000 ·000	1940 1939 1938 1937 1936
	1935 1934 1933	·001 ·001 ·000	.000	·000 ·000	·000 ·000	·000 ·000	·001 ·000 ·000	·009 ·004 ·002	.000	·000 ·000	·000 ·000	·001 ·000 ·000	·008 ·003 ·002	·001 ·000 ·000	.000	·000 ·000	·000 ·000	·000 ·000	·001 ·000 ·000							1935 1934 1933

1960—continued

		8							Age at	marriag	e								
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of marriage		A		Single State of the State of th				Numb	er of pr	evious c	hildren					Ü			of marriage
	Total	0	1	2	3	4 or more	Total	0	1	2	3	4 or more	Total	0	1	2	3	4 or more	
1960 1959 1958 1957 1956	·077 ·324 ·225 ·195 ·163	·073 ·301 ·144 ·073 ·045	·002 ·018 ·071 ·097 ·077	·001 ·003 ·007 ·019 ·031	·001 ·001 ·002 ·005 ·006	·000 ·001 ·002 ·002 ·003	·057 ·215 ·145 ·112 ·069	·052 ·202 ·098 ·045 ·021	·002 ·011 ·041 ·051 ·032	·002 ·001 ·005 ·011 ·011	·000 ·000 ·001 ·003 ·003	·001 ·001 ·000 ·001 ·002	·028 ·056 ·032 ·013 ·009	·026 ·052 ·025 ·008 ·004	·001 ·002 ·007 ·004 ·003	 ·000 ·001 ·001	·001 ·001 — - ·000	·000 — — ·000	1960 1959 1958 1957 1956
1955 1954 1953 1952 1951	·129 ·102 ·080 ·060 ·039	·028 ·020 ·013 ·009 ·005	·057 ·043 ·030 ·019 ·012	·030 ·023 ·020 ·017 ·010	·009 ·011 ·011 ·009 ·006	·004 ·004 ·006 ·006 ·005	·054 ·029 ·016 ·009 ·003	·013 ·006 ·002 ·002 ·000	·021 ·012 ·005 ·002 ·000	·015 ·007 ·004 ·002 ·001	·003 ·002 ·003 ·002 ·001	·002 ·002 ·001 ·001 ·000	·004 ·002 ·000	· 002 · 000 · 000	·001 ·001 ·000	·000 ·000	·000 ·000 —		1955 1954 1953 1952 1951
1950 1949 1948 1947 1946	·030 ·018 ·011 ·006 ·003	·003 ·002 ·001 ·000 ·000	·008 ·004 ·002 ·001 ·000	·008 ·005 ·002 ·002 ·000	·006 ·004 ·002 ·001 ·001	·006 ·004 ·003 ·002 ·001	·002 ·001 ·001	.000	·000 ·000 —	·000 ·000	·000 ·000	·001 ·001							1950 1949 1948 1947 1946
1945	.001	.000	.000	.000	.000	.001													1945

APPENDIX C

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	Statistical Society, vol. 123. pp. 413-426.	

BENJAMIN, B. . . The Royal Statistical Society. Venture, vol. 3, No. 6. pp. 94-96.

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Unio Internationalis Contra Cancrum, vol. XVI,

No. 7. pp. 1711–1715.

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