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THE

REGISTRAR GENERAL'S

STATISTICAL REVIEW

OF

ENGLAND AND WALES FOR THE YEAR

1952



LONDON
HER MAJESTY'S STATIONERY OFFICE
1955

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EXPLANATORY NOTES

1. Population revision

Some of the rates shown in this volume for years 1951 and 1952 differ slightly from similar rates published in the Tables volumes of the Statistical Review for those years, owing to the revision, in the light of final data from the 1951 Census, of the population estimates on which they are based (see page 7).

2. Numbering of Tables

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

3. Indication of Significance

Rates based upon less than 20 births, deaths or cases notified are distinguished by italic type as a warning to the user that the smallness of the experience may affect their significance. Rates given as 0 indicate that the rate is insignificant. A dash (—) in tables showing rates indicates that there were no births, deaths or cases.

4. Regions

The constitution of the Standard Regions of England and Wales that are used in this volume is as follows:—

REGION I. Northern. Cumberland. Durham. Northumberland. Westmorland. Yorkshire, North Riding. REGION II. East and West Ridings. Yorkshire, East Riding.	REGION IV. Eastern. Bedfordshire. Cambridgeshire. Ely, Isle of. Essex, Part of ² Hertfordshire, Part of ³ Huntingdonshire. Norfolk. Suffolk, East. Suffolk, West.	REGION VI. Southern. Berkshire. Buckinghamshire. Dorset. Oxfordshire. Southampton. Wight, Isle of.	Wales II. Anglesey. Caernarvonshire. Cardiganshire. Denbighshire. Flintshire. Merionethshire. Montgomeryshire. Pembrokeshire. Radnorshire.
Yorkshire, West Riding. REGION III. North Midland. Derbyshire, Part of 1 Leicestershire. Lincolnshire— Parts of Holland.	REGION V. London and South Eastern Essex, Part of ⁴ Hertfordshire, Part of ⁵ Kent. London, Admin. County. Middlesex.	South Western. Cornwall, Devon. Gloucestershire. Somerset. Wiltshire.	REGION IX. Midland. Herefordshire. Shropshire. Staffordshire. Warwickshire. Worcestershire.
Parts of Kesteven. Parts of Lindsey. Northamptonshire. Nottinghamshire. Peterborough, Soke of. Rutland.	Surrey. Sussex, East Sussex, West.	Wales I. Brecknockshire. Carmarthenshire. Glamorganshire. Monmouthshire.	REGION X. North Western. Cheshire. Derbyshire, Part of 6 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. All areas stated in 1 above.

5. Conurbations

The conurbation areas used in this volume were agreed by an interdepartmental committee, representing the principal Departments preparing statistics, as a means of securing uniformity and comparability in statistics published by Government Departments in the United Kingdom.

Conurbation is the word used to describe those areas of urban development where a number of separate towns have grown into each other and become linked by such factors as a common industrial or business interest, or a common centre of shopping, education, etc. The conurbations are each made up of a collection of complete local authority areas, constituted as follows:—

Gateshead C.B.
South Shields C.B.
Whickham U.D.
Gosforth U.D.
Jarrow M.B.
Whickham U.D.
Gosforth U.D.
Whitley Bay U.D.

Tyneside

Northumberland
Newcastle-upon-Tyne C.B.
Longbenton U.D.
Tynemouth C.B.
Wallsend M.B.
Whitley Bay U.D.

EXPLANATORY NOTES—continued

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. Heckmondwike 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. 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 U.D. Stanley U.D.

Urmston U.D. Wardle U.D. Westhoughton U.D. Whitefield U.D. Whitworth U.D.

Worsley U.D.

Limehurst R.D.

South East Lancashire

Cheshire

Stockport C.B.

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

Hale U.D.
Hazelgrove 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

Tottington U.D.

Mersevside

Birkenhead C.B. Wallasey C.B. Bebington M.B. Cheshire Ellesmere Port U.D. Hoylake U.D. Neston U.D. Wirral U.D.

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

Huyton with Roby U.D. Litherland U.D.

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.

Staffordshire 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.

Warwickshire Birmingham C.B.

Solihull U.D. Sutton Coldfield M.B.

Worcestershire Dudley C.B.

Halesowen M.B. Oldbury M.B. Stourbridge M.B.

Greater London

London (whole county) Middlesex (whole county) Surrey

Kingston upon Thames M.B. Malden and Coombe M.B. Merton and Morden U.D. Mitcham M.B. Croydon C.B. Banstead U.D. Barnes M.B.
Beddington and Wallington M.B.
Carshalton U.D.

Richmond M.B. Surbiton M.B.
Sutton and Cheam M.B. Coulsdon and Purley U.D. Epsom and Ewell M.B. Esher U.D. Wimbledon M.B.

Ment
Beckenham M.B.
Bexley M.B.
Bromley M.B.
Chislehurst and Sidcup

U.D.
Crayford U.D.
Erith M.B.
Orpington U.D.
Penge U.D.

Hertfordshire Barnett 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 Wood-ford M.B.

6. General

See also explanatory notes to the Tables volumes, Parts I and II.

CORRIGENDA

Statistical Review: 1951 Text Volume

Table XXX, Page 59 Illegitimate Live Births.

Ratio of Local to National Rate,

Merseyside Conurbation: for 0.26 read 1.26.

Page 97 Table XLVIII, heading of Table,

for Civilian read Home.

Line 4, for 1891-1950 read 1891-1900. Page 104

Line 4 for 64M read 64F. Page 138 Line 7 for 58F read 58M

Line 13 for 39F read 37F

Line 14 for 57F read 57M Table CXXXVII, Page 293

Local Government Register, 1951 (20th Nov. 1950),

for 30,501,306 read 30,501,106.

INTRODUCTION

Civil and Medical Statistics

The statistical commentary in this volume falls into two main parts corresponding to the division of the Tables volumes into Civil and Medical statistics respectively.

The civil part is concerned in the main with population, births and fertility, marriages and divorces. The primary aim here is to show what trends are apparent in post war experience and to compare them as far as possible with the pre-war position.

The medical part of the present volume is concerned primarily with mortality statistics, but in the tuberculosis section numbers of notifications are discussed and in the cancer section use is made of statistics of cases registered to assist in interpretation of mortality figures. Figures of notifications of infectious diseases are included in Part I of the Review (Medical Tables). The Survey of Sickness (which had provided information continuously since 1944 about illness in the population, frequency of consultation with doctors and duration of incapacity from sickness) was discontinued in March, 1952. The other morbidity enquiries for which the General Register Office is responsible have continued to develop and expand since 1952 and their results(1) should become increasingly useful. In developing these enquiries, in improving mortality statistics, and in medical classifications the advice of the Registrar General's Medical Advisory Committee has been most valuable; the Report on their work in the two years to November, 1952 is reproduced on page 228 and a further Report, to November, 1954, has been published in the Registrar General's Quarterly Return for the December Quarter, 1954 (No. 424).

Population

The provision of final figures from the full tabulations of the 1951 Census (as distinct from preliminary figures derived first from enumerators' summaries and later from the one per cent sample) has made it possible to complete a final revision of the population estimates (including estimates by marital condition) for England and Wales for 1951 and 1952. The results are shown on pages 6, 10 and 253. 1952 was the last year for which population estimates could be made by the procedure, involving the use of national registration and food rationing data, which had been followed since 1940. This section also contains a brief note on the accuracy of population estimates with particular reference to migration statistics.

⁽¹⁾ The latest publications are :-

The Registrar General's Statistical Review of England and Wales for the years 1950 and 1951—

Supplement on General Morbidity, Cancer and Mental Health. H.M.S.O., price 8s. 6d. net:

Supplement on Hospital In-patient Statistics. H.M.S.O., price 7s. 6d. net:

Studies on Medical and Population Subjects, No. 7: General Practitioners' Records—An analysis of the clinical records of eight practices during the period April 1951 to March 1952. H.M.S.O., price 8s. 6d. net.

Births and Fertility

This is one of the more important subjects dealt with in this volume. The value of population studies lies not only in their analysis of the present population and its composition but in the indications they can give of future trends. For this reason an analysis of fertility is essential both to show what has happened and to see whether any guide to the future can be obtained.

Pages 12 to 16 of the present volume discuss evidence which suggests that fertility has reached a comparatively stable level after the post-war fluctuations. There is, so far, no reason to believe that the long decline in fertility of the kind experienced prior to the early thirties has been resumed. Nevertheless it has to be borne in mind that the high marriage rates of recent years may have temporarily inflated the numbers of births, and that comparative stability does not mean that there is not still, however slow, a continuing downward tendency in numbers of births. Although there is no likelihood of a serious impairment of replacement prospects in the near future, the persistence of this tendency is a matter for close observation and the events of the next few years are crucial to judgment of fertility trends.

The evidence suggests that the tendency to concentrate births into the earlier years of married life is continuing.

Marriage, Widowhood and Divorce

There is an obvious interaction between marriage rates and fertility and population structure generally. While the tendency for more people to marry younger is continuing, the 1952 figures suggest that the decline in marriage rates, which was forecast as a consequence of the depletion of the marriageable population by the very high marriage rates of recent years, may have begun.

The current level of mortality at ages under 45 is so low that the termination of marriages by death is not significantly depleting the population of married women in the child bearing ages (pages 58-59). The influence of divorce on the numbers of married persons in the community is discussed on pages 60-63. The numbers of petitions for divorce during 1952 continued to show the effect of the Legal Aid and Advice Act, 1949, which increased the facilities for divorce available to persons of limited means. The figures suggest that the proportion of divorced persons who ultimately remarry is rising and is perhaps in the region of two-thirds to three-quarters, so that the net loss to the married population is only a small fraction of the total number divorced; and nearly 40 per cent of those divorced already have two or more children, only 30 per cent being childless.

Mortality by Social Class

The most important ways in which mortality statistics are analysed in order to assist in administration of health services or in medical research are to show changes through time, differences by sex age and cause, differences between areas, seasonal variations, and differences between occupational or social groups. All of these are considered in one place or another in this volume; the last can normally be studied in detail only in relation to the populations in different groups as enumerated at a census. The extraction of population figures based on a one per cent sample of the 1951 Census records has made it possible to prepare and publish(1) broad occupational and social class mortality figures in advance of the full analysis for the years 1949-53. These preliminary figures, relating to deaths in 1950, suggest that the consistent mortality gradient of earlier years, rising from Social Class I to Social Class V, has been broken by lower mortality in Social Class II than in Social Class I for both adult men and their wives and

(1) Registrar General's Decennial Supplement, England and Wales, 1951—Occupational Mortality Part I. H.M.S.O., 7s. 6d. net.

Mortality in 1952

The number of deaths registered in England and Wales in 1952 was less than 500,000 for the first time since 1948 and the crude death rate, at 11.3 deaths per thousand population, was less than in any previous year except 1948, when it was 11.0. These figures reflect the year's freedom from prolonged cold weather and from any influenza epidemic, the two main influences of recent years in producing high death rates. The maps on pages 68-70 strikingly demonstrate the gradation of the level of mortality from the North and West to the South-east of the country.

Table XLVII (page 78) and the comments on pages 71-72 clearly demonstrate the differences in the main causes of death at different ages. In each of the age-groups 1-4. 5-14 and 15-24 accidents were responsible for more than one-fifth of all the deaths; at ages 25-44 cancer was responsible for more than one-fifth of the deaths and for nearly a quarter at ages 45-64; heart disease accounted for more than a quarter of the deaths at ages 45-64 and at 65-74, increasing to more than a third at ages 75 and over. In considering the relative importance of different causes of death, it may sometimes be desirable to take account of the age at death as well as the simple numbers of deaths. The concept of 'years of life lost'(2) is one way of doing this. If it is assumed that any years prior to age 85 are 'lost' years of life, the use of this concept does not make any startling difference in the relative importance of the major causes of death in 1952—heart disease would represent 23 instead of 32 per cent of the total, cancer would remain at 18 per cent, while accidents would increase from 3 to 5 per cent; but the change would be greater if a lower age limit were assumed. This concept, which has been used occasionally in the past, may prove useful where it is desired to emphasise the importance of diseases which kill young.

A table showing the seasonal variation of death from certain causes by age (page 75) has been included at the suggestion of the Registrar General's Medical Advisory Committee. The most notable difference in seasonal variation for different age groups occurs for motor vehicle traffic accidents and accidental falls, where deaths show a summer excess at ages under 45 and a winter excess at ages 45 and over; this may reflect a lower resistence to injury among old people in the winter months. For the other causes shown seasonal variations do not appear to change much with age.

⁽¹⁾ Morris, J. N., and Heady, J. A.: Mortality in Relation to the Father's Occupation 1911-1950, Lancet, vol. I, p. 554, 1955.

⁽²⁾ Monthly Bulletin of Min. of Health and Public Health Laboratory Service, p. 244, December, 1953.
Medical Officer vol. XCI, No. 22, p. 251, 1954.
The Registrar General's Quarterly Return, June, 1955.

Atmospheric Pollution

The most notable mortality incident of 1952 was in December when the acute hazards to life produced by heavy atmospheric pollution were brought dramatically to public notice by the 4,000 deaths attributed to the heavy fog in the London area in the period 6th to 10th December(1). There followed the announcement of the Government's decision to set up a Committee under Sir Hugh Beaver to examine the nature, causes and effects of air pollution and the efficacy of present preventive measures, to consider what further preventive measures are practicable, and to make recommendations; the memory of these deaths was a major factor in the interest aroused by the proposals in the Committee's report(2). Such episodes are fortunately rare, but the continuing though much more insidious long-term effects of atmospheric pollution on health are probably more serious in the suffering and economic loss which they inflict on the community. Evidence so convincing as 4,000 deaths from less than one week's fog cannot easily be produced, but the association of high mortality with large urban areas has repeatedly been demonstrated. If areas could be graded according to the amount and kind of pollution of their atmosphere, the extent to which this association is due to atmospheric pollution could be assessed and further light might be thrown on the ætiology of diseases such as bronchitis and cancer of the lung.

Infant Mortality

A new low record each year for the infant mortality rate has been taken almost for granted in recent years and 1952 renewed the trend after its slight disturbance in 1951, caused by the influenza epidemic. The dependence of this trend on the decline in mortality after the first week of life is emphasised (page 88), as is the increasing relative importance of respiratory infections in this period; between 1949 and 1952 it was gastro-enteritis, with a decline of 62 per cent, which set the pace for the decline in mortality from causes operating after birth and further rapid decline in this group must depend on progress in combating the respiratory infections (page 88).

Further progress in reducing the total loss from stillbirths and infant deaths will, however, become increasingly dependent on what can be done to reduce the loss before or during birth and in the first week after birth, which together represented three-quarters of the total loss in 1952 and, if trends since 1948 were to continue, would represent 95 per cent of the total loss by 1970 (page 89).

Infectious Diseases

The present volume does not contain a general commentary on the notifications and deaths for the infectious diseases. Detailed figures are included in the Tables (Part I) Volume and comment on them is contained in the Report of the Chief Medical Officer of the Ministry of Health(3). For a number of infectious diseases the proportion of the deaths represented by late effects causing death several years after onset of the disease is becoming significant. To enable readers to take account of these, details of such deaths are given on page 210.

This volume does, however, contain a discussion of mortality from syphilis and aortic aneurysm, taking account of effects of changes in classification. It is notable that, in contrast with other types of syphilitic disease, there has been no decline in mortality from aortic aneurysm since 1940. The outstanding

(1) Logan, W. P. D.: Mortality in the London Fog Incident, 1952, Lancet vol. I, p. 336, 1953. Logan, W. P. D.: Mortality and Morbidity during the London fog of December, 1952. Min. of Health Reports on Public Health and Medical Subjects, No. 95.

(2) Committee on Air Pollution, Report, 1954. H.M.S.O., 2s. 6d. net.

features of mortality from syphilis in different types of area are the very high rates at ages over 65 in Greater London and the low rates in rural districts (page 138).

Tuberculosis

While there was again a substantial fall in mortality from tuberculosis in 1952, notifications again declined only slightly; the only age group, apart from boys aged 10-14 where the numbers of deaths are small, which did not share in the fall in mortality from respiratory tuberculosis was women of 75 and over. In notifications of respiratory tuberculosis, but not in mortality, men aged 35-44 have, since 1944, shown lower rates than for the age groups immediately younger and older.

A comparison of notification and death rates for respiratory tuberculosis between administrative counties and associated county boroughs shows, in general, relatively high rates in more urban areas, but there are exceptions (page 110). The similarity in rates in certain of the conurbations, particularly Tyneside and Merseyside, is very striking (page 112). Attention is drawn to the continuing social class differentials in mortality from respiratory tuberculosis.

Cancer

Since 1936 the male death rates from all forms of cancer have risen in each age group, but, if cancer of the lung is excluded, death rates at ages 35 to 54 have shown little change, at ages 55 to 74 they have declined fairly steadily, while at ages 75 and over they declined until about 1944 since when they have increased again. The female death rates have tended to fall in each age group between 35 and 75, even when cancer of the lung is included; at ages over 75 the trend has been similar to that for males. These figures suggest that, unless incidence has changed, improved treatment has had a substantial effect in reducing deaths at ages under 75.

A slackening in the rate of increase in mortality from cancer of the lung at younger ages was noted in the Review for 1948-1949 (Medical Text, page 158). This tendency to stabilisation has become apparent up to age 55, a fact which is used as a basis for estimating, on certain assumptions, how long the total number of deaths would continue increasing and what figure they might reach (page 151).

For several sites of cancer, tentative use is made of the figures of cases registered in the national Cancer Registration scheme to throw light on the significance of changes in the mortality figures. For some sites the degree of completeness of registration is approaching the stage when this can reasonably be done and recent progress in registration is likely to throw much further light on mortality changes.

Accidental and Violent Deaths

The importance of accidents as a cause of death among people under the age of 25 has already been commented on; since 1948 the proportion of deaths at ages under 35 assigned to accidents or other violence has increased, the most alarming increase being among young men aged 15-34 where violent deaths have increased by 12 per cent while total deaths have decreased by 27 per cent. Most of these "accidents" could in fact be prevented without imposing undue restraint on the young men or on others. Total deaths from accidents and other violence were in fact less in 1952 than in either 1950 or 1951, but death rates for men at ages between 15 and 25 were the highest recorded since the end of the

⁽³⁾ Report of the Ministry of Health for the year ended 31st December, 1952, Part II—On the

POPULATION

Since publication of the previous Statistical Review the provision of final figures from the full tabulations of the 1951 Census (as distinct from preliminary figures derived first from enumerators' summaries and, later, from the 1 per cent sample) have made it possible to complete a final revision of the population estimates for England and Wales by sex and age for 1951 and 1952. The results are shown in Table I.

Table I.—Estimates of Total, Civilian and Home Populations by Sex and Age. England and Wales, 1951 and 1952

Note—These are revised estimates based upon the final data by sex and age from the 1951 Census

(Thousands)

		Mid-1951					Mid-1952					
Age Group	Males			Females			Males			Females		
	Total	Civilian	Home									
0 5 10	iii o	1,910 1,642 1,422	2 8 01	i vili	1,819 1,568 1,377	gi peg	aggi.	1,794 1,787 1,429	262 s	iani	1,711 1,705 1,380	
15 20 25 30 40	1,395 1,494 1,635 1,547 1,632 1,667	1,139 1,241 1,561 1,495 1,595 1,647	1,333 1,417 1,615 1,533 1,623 1,662	1,370 1,489 1,641 1,579 1,681 1,704	1,364 1,480 1,639 1,578 1,680 1,703	1,370 1,487 1,640 1,579 1,681 1,704	1,393 1,484 1,592 1,603 1,583 1,659	1,125 1,204 1,519 1,550 1,547 1,637	1,331 1,388 1,570 1,588 1,574 1,654	1,368 1,471 1,590 1,630 1,632 1,697	1,362 1,462 1,588 1,629 1,631 1,696	1,368 1,470 1,590 1,630 1,632 1,697
45 50 55 60	1,567 1,313 1,089 944	1,559 1,311 1.088 944	1,565 1,313 1,089 944	3 70%	1,637 1,492 1,344 1,209	i de la di	1,588 1,361 1,101 949	1,580 1,358 1,100 949	1,587 1,361 1,101 949	otie le	1,648 1,512 1,358 1,219	
65 70 75 80 85 and over	1 40 d	780 592 374 169 61		odi a cost cost	1,051 836 554 283 140	(04:30 (01:30 (01:30	10 00 11 21	782 595 380 175 65	ALEGAR	ar ork gassk gassk	1,060 850 573 294 148	
All Ages	21233	20530	21044	22774	22754	22771	21320	20576	21110	22846	22826	22845

The census enumeration is the most accurate figure that can be obtained of the total population of the country, and estimates of that population made close to the census date are not likely to be appreciably inferior in quality to the enumeration. The movement from one mid-year estimate to the next is dependent upon information derived from the registration of births and deaths (and of marriages and divorces in the case of marital condition estimates) and upon the available statistics of external migration which fortunately is a small element at present. There is no reason to doubt the high quality of registration data since the safeguards for complete and accurate registration have evolved

over a long period of time and are continually being adapted to changing conditions; but the quality of migration statistics is poor indeed. No comprehensive migration statistics exist. The Board of Trade publish statistics of the balance of civilian passenger movement into and out of the United Kingdom; this is not a migration balance. For sea travel only, the Board of Trade publish figures, by sex, of the numbers who, as recorded on ships' manifests, have declared their intention to reside for at least a year in the country of destination. This relates only to movement to or from non-European countries. Movement by air or across the continent of Europe is excluded, and the figures therefore provide a very incomplete measure of the balance of permanent migration. All these figures appear in Table S of the Statistical Review Part II. Certain supplementary figures are available of sex and age distributions of such "permanent migrants" and the Home Office provides information of the characteristics of aliens.

The estimation of the actual balance of migration cannot be precise. It depends upon long experience with the handling of the figures and long acquaintance with the meaning of fluctuations which are apt to occur. As the estimates move more distant in time from the census therefore their precision is reduced until the next census once more provides a new base upon which to re-establish a fresh series of intercensal estimates. This reduction in precision is however limited by the present small dimensions of the net migration balance. Migration statistics had been much improved in recent years by the existence of the National Register. With its abolition on 21st February, 1952, the data on migration deteriorated in quality and quantity; but as long as food rationing continued the deficiency was felt more in relation to movement between local areas than to that in and out of the country. It was therefore possible to make the estimates for 1952 by much the same procedure as in earlier years, starting from the 1951 estimates, adding births and immigrants and subtracting deaths and emigrants, the total being reviewed in the light of the food ration book issue statistics before adoption. Only the distribution of the migrants by sex, age and marital condition had to be based more on past experience than on current information. This applies both to the original estimates published in the Tables Volumes of this Review for 1951 and 1952, and to the revised figures in Table I, which are derived from the final tabulations of the 1951 Census by sex and age.

The three different types of population shown are based on different concepts. For the *home* population, all Armed Forces (including Commonwealth and Allied Forces) are treated as resident where stationed. If the whole contribution of England and Wales to the United Kingdom Forces, whether at home or abroad, is included and Commonwealth and Allied Forces here are excluded, this provides a measure of the *total* population to which England and Wales can lay claim (in this measure merchant seamen and British visitors abroad are excluded but are roughly balanced by visitors to this country who though included are not properly members of the population of England and Wales). If all Armed Forces are excluded, this provides the *civilian* population.

Estimate Correction.—Table II shows the extent to which the 1952 estimate was retrospectively revised. This revision arose partly from the difference between the final tabulations by sex and age and those of the 1 per cent sample and partly from the under-enumeration of infants and misstatement of age. Under-enumeration of infants was corrected by direct estimation from births, and age misstatement by graduation of census figures. The majority of the differences in individual cells are less than 1% of the original figures; larger corrections were made for females at advanced ages.

Table II.—Correction of Population Estimates, England and Wales, Mid-1952

Original Estimate minus Final Estimate

(Thousands)

Age	en antale. C. distributione.	Males		Females			
Group	Total	Civilian	Home	Total	Civilian	Home	
0 5 10 20 25 30 35 40 55 60 65 70 80 85 and over All Ages	$ \begin{array}{c} 0 \\ -12 \\ -13 \\ + 2 \\ + 3 \\ + 18 \end{array} $ $ \begin{array}{c} + 9 \\ + 5 \\ + 13 \\ + 6 \end{array} $	$\begin{array}{c} +1\\ -17\\ +15\\ \hline -11\\ -11\\ -15\\ +1\\ +18\\ +8\\ +5\\ +13\\ +6\\ \hline \\ -76\\ -2\\ +2\\ -2\\ +8\\ \end{array}$	0 -20 -16 + 1 + 2 +18 + 8 + 5 +13 + 6	+16 + 1 - 9 - 4 + 3 + 6	$ \begin{array}{c} 0 \\ -14 \\ +9 \end{array} $ $ \begin{array}{c} +16 \\ +1 \\ -9 \\ -4 \\ +3 \\ +6 \end{array} $ $ \begin{array}{c} -1 \\ -5 \\ -1 \\ -10 \\ +5 \\ +2 \\ -7 \\ -10 \end{array} $	+16 0 5 - 9 - 4 + 3 + 6	

Population Movement.—The approximate amount and composition of the change in the total population in the year since mid-1951 are shown in Table III.

Table III.—Analysis of Population Movement 1951-52 and Comparison with 1946-51

and profess to the same	Increase or Decrease (—) in Total Population										
Mid-year to Mid-year	17 29 27 W.	Total	dgsax k kabubat kabubat	Births	Deaths	Natural	Net Migra-				
errantes \$297 agrante	Persons	Males	Females	Autor T	-Jiolitos	Increase	tion				
1951–52 {Thousands Per cent	159 0·36	87 0·41	72 0·32	669 1·52	-484 -1·10	185 0·42	-26 -0.06				
1946-51 { Per cent per annum	0.61	0.67	0.55	1.80	-1.19	0.61	0.00				

It will be seen that the increase of 159,000 is, as in most recent years, mainly due to the excess of births over deaths, the migration balance for the year being small in relation to the total change. As compared with the average annual increase over the period 1946-51, the 1951-52 increment is smaller mainly as a result of the decline from the abnormally high annual number of births in the immediate post-war years. A larger outward migration balance also contributed to the reduction but this was more than offset by lower than average mortality.

The Structure of the Population.—The proportions of the total population in broad age groups, in 1939 and 1952 are shown in the following statement. The development of the ageing process resulting from the decline from the high fertility of the late nineteenth century is illustrated by the progressive increase in the proportion in the 65 and over age group. In 1901, when the population structure had been rendered youthful by the antecedent period of high fertility, this proportion was only 47 per thousand. By 1939 it had increased to 89 and in 1952 it was estimated to be 111 per thousand. Between 1939 and 1952 the total proportion in the working age group 15-64 decreased from 701 to 667 per thousand and this segment of the population as a whole aged, the proportion over 45 having increased while the proportion under that age decreased. The proportion of children was higher in 1952 than in 1939 as a result of the high birth rates of the immediate postwar years.

				Per thousand of	Total Population
	Sex-age Group)		1939	1952
Under 15, Males and	l Females		 	210	222
15–44 { Males Females			 	234 241	211 213
45–64 {Males Females			 	104 122	113 130
65 and over, Males a	and Females		 	89	111
Total	77.20 Sept 5	9,9,514	 1	1,000	1,000

The following summary shows the changes which have taken place in sex ratios at different ages. The ratio of females to males in the total population of all ages is not different from that of 1939 but the excess of females is confined to the higher ages.

Females per 100 Males

Mid-year	All ages	Under 15	15–24	25-34	35–44	45-64	65 and over
1939 1952	107- 107	98 96	98 99	102 101	110	- 117 115	134 146

Factors contributing to this change are the smaller war losses in 1939-45 as compared with those in 1914-18, and the reduction in the volume of predominantly male net emigration after World War I. The rise in the sex ratio at birth and the decline in child mortality have also played a part. The increase in

the excess of females at ages 65 and over is due partly to the fact that the generations most depleted of males by the 1914-18 war losses and by the heavy emigration before 1914 have now moved into this age-group, and partly to the greater improvement in the longevity of females as compared with males.

Marital Condition.—Estimates of the population at mid-1952 by marital condition as revised* following the final tabulations of the census are shown in Table IV.

Table IV.—Estimated Total Population by Sex, Age and Marital Condition, England and Wales, Mid-1952

Note—This is a revised estimate based upon the final data by sex and age from the 1951 census.

(Thousands)

Age	Persons	on y oleyd	Mal	es	Control	le lesens	Fem	ales	
Group	All Conditions	All Conditions	Single	Married	Widowed and Divorced	All Conditions	Single	Married	Widowed and Divorced
0 5 10	3,505 3,492 2,809	1,794 1,787 1,429	1,794 1,787 1,429	Ξ	=	1,711 1,705 1,380	1,711 1,705 1,380		=
15 20 25 30 35 40	2,761 2,955 3,182 3,233 3,215 3,356	1,393 1,484 1,592 1,603 1,583 1,659	1,386 1,136 552 297 206 176	7 346 1,032 1,287 1,351 1,450	2 8 19 26 33	1,368 1,471 1,590 1,630 1,632 1,697	1,310 748 335 227 204 226	58 720 1,237 1,361 1,368 1,390	3 18 42 60 81
45 50 55 60 65 70 75 and	3,236 2,873 2,459 2,168 1,842 1,445	1,588 1,361 1,101 949 782 595	155 119 84 72 65 50	1,394 1,192 958 794 607 410	39 50 59 83 110 135	1,648 1,512 1,358 1,219 1,060 850	245 225 207 190 163 134	1,292 1,121 914 705 505 314	111 166 237 324 392 402
over All Ages	1,635 44,166	620	49 9,357	315 11,143	256 820	1,015 22,846	9,177	204	2,480

The proportion married in the total population rose between 1939 and 1952 from 48 to 52 per cent among males and from 45 to 49 per cent among females. At ages 25-29 the proportions married have risen from 54 to 65 per cent among males and from 65 to 78 per cent among females. This striking change is a consequence of the high marriage rates of postwar years and a reduction in the average age at marriage—matters which are discussed in more detail on pages 41 to 43.

Estimates of married women by age and marriage duration are referred to in the fertility chapter, p. 23.

Local Populations

Estimates of the home populations of all boroughs, urban and rural districts in England and Wales as at the middle of 1952 are shown in Table 12 of Part I and Table E of Part II. The Appendices to Parts I and II give details of changes in boundary during the year.

Since the National Register figures covered nearly 8 of the 12 months from mid-1951 to mid-1952, it was found possible to use them, with suitable modification, to derive estimates for the latter date from the mid-1951 figures based on the preliminary census results. Other data taken into account included the returns of the mass exchange of ration books and those of parliamentary electors.

The local estimates differ in character from census figures, since the latter relate to persons who happened to be enumerated in the local area at census date and the estimates relate to the resident population.

In using census figures as a base for local estimates the numbers enumerated in each area at census date are first converted to numbers of residents by adding those enumerated elsewhere in England and Wales who had stated as their usual residence an address in the area concerned, subtracting those enumerated in the area who had stated a usual residence address elsewhere in England and Wales,* and making some special adjustments. These last relate to certain classes of the population absent from their usual residence as defined for census purposes but from only part of whom statements to that effect had been obtained on the census schedules. The most important of these are members of residential schools and colleges absent on holiday, for whom the school or college address should have been given as that of usual residence, though in many cases the home address was given instead; and members of the Forces on leave from their stations, many of whom failed to record the station as the normal residence (occasionally larger numbers were absent from their stations on manoeuvres or at sea, in which case no usual residence statement would have been obtained on the schedules). These elements may be important in some rural areas where the school or service establishment accounts for an appreciable part of the local population.

Each census provides a new set of bench marks from which to project a new series of estimates. A detailed examination of the extent of the errors which had accumulated prior to the 1951 Census was given in the Text for 1951, (p. 15).

Local Age Distributions

The estimates of the home population by sex and age in Standard Regions, Conurbations and Density Aggregates shown in Tables 2 and A.4 have been derived from those for 1951, described in the Text Volume for that year (p. 17).

The estimates of the *number of children under* 15 years of age, previously made for all administrative areas, have had to be limited from 1952 onwards to Administrative Counties, County and Metropolitan Boroughs. This is a consequence of changes in the available ration book statistics, and in particular of the abolition of the special ration books formerly issued to children and young people between the ages of 5 and 18. The new estimates are mostly based, for children under 5, on the number of births in each area in the preceding 5 years, and for those aged 5-14, on the number of children of those ages on school registers, figures of which have been made available by the Ministry of Education. Both kinds of data are adjusted in the light of those available in 1951 from census and other sources. The estimates for 1952 have been published in the Registrar General's Quarterly Return No. 417 (1st Quarter of 1953), p. 35.

^{*} The 1951 mid-year estimate by marital condition was also revised and, as corrected, is shown in Appendix B Table I, page 253.

^{*} Persons with a usual residence outside England and Wales were thus, as in 1931, allocated to the area of enumeration. This is not only consistent with the procedure adopted for the national estimates, but also reflects the fact that areas where this element is numerically important are usually those permanently characterised by a considerable floating population of such visitors.

BIRTHS, FERTILITY AND REPRODUCTIVITY

Live Births

The number of live births occurring in 1952 numbered 673,735, compared with 677,529 in 1951. Until 1938, statistics of birth registrations only were available but in most years the numbers of occurrences and of registrations were not different for all practical purposes and the registrations of 1938, numbering 621,204 may be compared with the occurrences of 1951 and 1952. The births of 1952 represented a rate per 1,000 population of all ages of 15·3, compared with 15·4 in 1951 and 15·1 in 1938. [Tables B and C of Part II]. The similarity of these three rates gives no hint of the wide fluctuations through which the rate passed in the intervening years, but these were associated with the war, and have been discussed in detail in the Civil Texts of 1940-1945 and 1946-1950. It need be recorded only that the rate rose to a peak at 20·5 in 1947 declining sharply at first to 17·8 in 1948, and then more slowly to 16·7 in 1949, 15·8 in 1950, 15·4 in 1951 and 15·3 in 1952. The violent fluctuations associated with the war have therefore passed, and the birth rate is now subject to only small variation from year to year.

A similar situation exists in many other countries as is shown by Table Q, which compares the rates of European and some other countries during the last thirty years. In 1952, England and Wales had the lowest birth rate but one of all the countries in the table, Austria having the lowest in both 1951 and 1952. Crude birth rates however do not permit a true appreciation of current fertility trends and levels and a much more detailed analysis of the statistics is required.

Birth Rates per 1,000 Women aged 15-44

Since only a fraction of the population are capable of childbearing, it seems more appropriate to relate births not to the total population but to the childbearing component only, for this purpose assumed to be composed of women of ages 15-44. As the proportion of these women in the total population has been decreasing for many years, the crude birth rate has been progressively reduced by the inclusion in the denominator of an increasing proportion of the population not at risk of childbearing. This does not apply in quite the same way to rates based on legitimate births and married women only owing to the rise in the proportion married (see pages 40 and 41).

Table V gives live birth rates per 1,000 women aged 15-44 [Table C, Part II] and the ratios of these rates to that of 1938. In census years the ratio standardised for age is also shown, i.e. after correcting for changes in age structure of women within the age group 15-44, though this is an unimportant correction and has little effect on the ratios.

In the left hand side of the table, giving rates for the average of 3 years round each census year since 1841, the highest rate is associated with 1871, a rate no less than two and a half times that of 1938. The rates then decline to 1931, when the rate was substantially the same as that of 1938.

Table V—Live Birth Rates per 1,000 Women aged 15-44, 1841 to 1952, England and Wales

Year	Live Births per 1,000 women aged 15-44		1938 (taken 100) Standard- ized for age	Yea	Year Eirths per 1,000 women aged 15-44		Ratio to 1938 (taken as 100)
1	Long Range (3	3-year averag	es)	Indivi	dual	Years or Ann	nual Average
1841 1851 1861 1871 1881 1891 1901 1911 1921 1931	148·3 149·8 151·1 155·7 147·7 129·8 114·8 98·3 90·9 64·3 72·1	238 241 243 250 238 209 185 158 146 104	235 205 179 155 147 102	1938 1939-4 1946 1947 1948 1949 1950 1951 1952		62:2 71:5 83:3 90:6 80:2 76:0 73:0 71:6 71:8	100 115 134 146 129 122 117 115 115

After 1931 the rate declined slowly to 59.4 in 1933, or 95 per cent of the 1938 rate, and then rose slightly to 62.2 in 1938. The rise from 1933 to 1938 was itself small, but that the rate should have remained so nearly constant for almost a decennium from 1931 to 1938, after a steep decline prolonged for no less than sixty years, was highly significant. From the figures shown in Table V above, it would appear that the decline was first retarded in the decennium 1911-1921 but in fact this was due to the exceptionally high birth rate in 1921—the making good of postponed births after the war of 1914-18. The underlying trend was still downward.

The intervention of war again in 1939 produced fluctuations in the rate, and the long term trend has been made clearer by aggregating the experience of the war and post-war years to yield an average rate of 71.5 for the period 1939-1949 as a whole, or 15 per cent higher than the 1938 rate. The rate for 1950 was very slightly higher than this at 73.0 but the rates for 1951 and 1952, 71.6 and 71.8, are close to the 1939-1949 average.

Now that the fertility disturbances associated with the Second World War have passed it is possible to see that the long decline in fertility prior to the early thirties has not been resumed; the average rate since 1938 is, in fact, higher than that of the previous decade.

Crude birth rates which take no account of the declining proportion of the population represented by women of the reproductive ages, would suggest that current experience was similar to that of pre-war years. When births are related to women of reproductive ages, however, it becomes clear that fertility in 1952 was 15 per cent higher than in 1938.

Age Standardisation

A further refinement may be introduced into the analysis by recognising that the fertility of women varies with age between 15 and 45. Since only a small proportion of girls under 20 are married their birth rate is low, but otherwise the rates are higher at younger than at older ages. The ageing of the population has added weight to the older groups and has tended to reduce the average fertility of the age-group 15-44 taken as a whole.

The left hand section of Table V, giving 3 year averages around census years, shows both unstandardised and standardised ratios of the rate to that of 1938. As at 1881 the effect of this standardisation was to reduce the ratio from 238 to 235 and, for 1931, from 104 to 102. At 1951 however the effect was to increase the ratio, from 116 to 117. Thus the improvement from 1931 to 1951 is only 12 per cent as shown by the unstandardised ratio, but 15 per cent as shown by the standardised ratio. While these adjustments are shown for completeness it is nevertheless obvious that the general trend of the fertility rates is not affected to any significant extent by age standardisation.

Reproduction Rates

A matter of public concern is whether the births currently occurring are sufficient to ensure the maintenance of the population at its present level. Unless in the long run deaths are replaced by births (or by an inward migration balance) the size of the population must change; and attention has become focused upon replacement. The concept of replacement was developed to the more specific point of considering whether a generation of women in passing through the reproductive years of life might bear sufficient female babies to replace themselves and thus to enable the same cycle of replacement to continue. (The same concept can of course be applied to the replacement of the male).

A simple index can be obtained by calculating fertility rates based on female births at each age (in practice in quinary groups) and adding these together to estimate the average number of female babies born to women passing through the reproductive ages assuming they experience these fertility rates—this is the Gross Reproduction Rate (G.R.R.). This takes no account of the mortality of infants before they themselves become the parents they are supposed to replace. Therefore before the rates for each age group are added together they should each be multiplied by the appropriate proportion of infants surviving to that age group. If this calculation is made on the basis of current mortality experience, it yields the Net Reproduction Rate (N.R.R.). Forecast mortality may be employed to allow for improvement in survivorship in the successive generations; the rate is then referred to as an Effective Reproduction Rate. It was shown in the Text for 1951, page 22, that the current level of mortality at young ages in England and Wales is so low that the effect of using forecast mortality would be trivial. If mortality were to be entirely eradicated in women under the age of 45 the Net Reproduction Rate would only be increased by about 5 per cent.

These reproduction rates suffer from a number of statistical defects but there is an overriding difficulty of interpretation which has tended to bring them into disrepute. Exact replacement is only indicated if rates of unity are consistently yielded and if the assumed conditions of mortality and age variations in fertility are reproduced in the future. In turn this involves other assumptions of stability in marriage experience, in the sex ratio at birth and birth spacing. These conditions are never fulfilled. The rate is a convenient method of summarising the experience of a single calendar year but this is an experience to which a number of separate generations of women contribute and in so far as these generations are already at different stages in their childbearing career the probable outcome in relation to the separate generations is obscured. Replacement cannot therefore be properly assessed by reproduction rates. Even a series of rates indicates only past trends and gives no reliable guide to the future in which rapid changes in conditions might take place. The rates are likely to undergo fluctuation from year to year and may even be subject to movement persisting over a period of years without providing a sure guide to ultimate population growth.

Approaches have been made to the problem of assessing replacement by measuring family sizes attained at different durations of marriage for couples married at different times in the past, or by calculating the ratio of successive generations. Though these are more satisfactory measures of replacement, they are by this same token retrospective measurements of past fertility in which current experience carries little weight.

Gross and Net Reproduction Rates for England and Wales are shown in Table VI.

Table VI.—Gross and Net Reproduction Rates, 1841 to 1952, England and Wales

Yea	Year		Reproduction Ratio to rate of 1938		Ratio of N.R.R. to G.R.R.	Year	Reproduction Rates		Ratio to rate of 1938		Ratio of N.R.R.	
predo Na		G.R.R.	N.R.R.	G.R.R.	N.R.R.	O.K.K.		G.R.R.	N.R.R.	G.R.R.	N.R.R.	G.R.R.
		3-уе	ear Aver	ages					Singl	e years		Rel n
1841 1851 1861 1871 1881 1891 1901		2:237 2:264 2:277 2:356 2:252 1:973 1:702	1·349 1·381 1·427 1·511 1·511 1·369 1·238	2·494 2·524 2·538 2·627 2·511 2·200 1·897	1.676 1.716 1.773 1.877 1.877 1.701 1.538	0·603 0·610 0·627 0·641 0·671 0·694 0·727	1938 1939 1940 1941 1942 1943 1944 1945 1946	0.897 0.892 0.850 0.836 0.934 0.985 1.089 0.992 1.200	0.805 0.807 0.753 0.737 0.845 0.893 0.993 0.910 1.112	1.000 0.994 0.948 0.932 1.041 1.098 1.214 1.106 1.338	1.000 1.002 0.935 0.916 1.050 1.109 1.234 1.130 1.381	0·897 0·905 0·886 0·882 0·905 0·907 0·912
1911 1922* 1931	SUBSI Subsi Si Subsi Subsi Subsi Subsi Subsi Subsi Subsi Subsi Subsi Subsi Sub	1·424 1·189 0·922	1·118 0·991 0·801	1·588 1·326 1·028	1·389 1·231 0·995	0.785 0.833 0.869	1947 1948 1949 1950 1951 1952	1·307 1·158 1·098 1·062 1·044 1·052	1·112 1·214 1·089 1·037 1·010 0·996 1·008	1·338 1·457 1·291 1·224 1·184 1·164 1·173	1·381 1·508 1·353 1·288 1·255 1·237 1·252	0·927 0·929 0·940 0·944 0·951 0·954 0·958

^{* 1922} has been selected since, as the aftermath of the First World War, conditions in 1921 were abnormal.

In view of what has been said about their defects it is perhaps best to regard these rates as having very much the same properties as annual birth rates and to consider them as such. The G.R.R. is superior to a crude birth rate since it relates births to the section of the population conventionally taken as responsible for them. Birth rates per 1,000 women aged 15-44, employed above, also possess this superiority, but the G.R.R. has a further advantage in that it is age standardised. The N.R.R. has both these properties, and in addition it incorporates an allowance for the wastage of mortality between birth and prospective motherhood.

The G.R.R. in 1841 was 2·237 and nearly 150 per cent above that of 1938. The close agreement between this excess and that shown in Table V will be noted. The rate at that time was rising slowly and, after passing a peak in 1871, commenced a long decline which was not arrested until after 1931, by which year it had fallen to 0·922. Between 1931 and 1938 there was little movement in the rate. The G.R.R. fluctuated widely in the next 11 years, as did more conventional birth rates, its average for the period 1939-49 being 1·031. Its value in 1951 was 1·044 and in 1952 was 1·052, reflecting relative stability as war disturbances receded.

The introduction of the element of mortality which has improved so much has an important effect on the shape of the long term changes. The N.R.R. in 1841 was 1·349, barely one half of the G.R.R. and only 68 per cent above the 1938 rate, showing that the contemporary high mortality losses between birth and attainment of reproductive ages were such that a much higher birth rate was required to replace the mothers of that time than was required in 1938. After 1841 the N.R.R. followed a course similar to that of the G.R.R., but with the rate of decline much retarded by the improving mortality. By 1931 the N.R.R. had fallen to 0·801, and in 1938 it was not significantly different at 0·805. The average N.R.R. for 1939-49 was 0·945. In 1951 the rate was ·996 and in 1952 1·008.

It is interesting to note the effect of mortality improvement since 1938. The average G.R.R. for 1939-49 was 15 per cent above 1938 whilst the average N.R.R. was 17 per cent above 1938. In 1952 the G.R.R. was 17 per cent above the 1938 level and the N.R.R. 25 per cent above. Thus, in addition to the improvement in fertility rates since 1938 (shown by the G.R.R.), the value of current births as contributing potential mothers is better by half as much again as a result of reduction in the mortality wastage between birth and reproductive ages.

The last column of the two halves of Table VI shows the ratio of the N.R.R. to the G.R.R., an index of the changes in mortality wastage discussed above. In 1841 nearly 40 per cent of the reproductive potential of girls was lost by their premature death. At the turn of the century, the loss was still over 25 per cent. In the next 30 years the loss was halved, falling from over 25 per cent to under 15. By 1938 the loss had been brought even lower to 10 per cent. Still further improvement in the following 14 years halved the losses again to under 5 per cent in 1952. Without resort to pessimism regarding future medical advances, it can be seen that further gains from mortality can be but slight, since the losses which can be removed are so small. Thus, whilst the mortality gains in the last hundred years have contributed much to maintaining replacement, little help can be expected in the future from this source, and another decline in fertility rates, such as that in the early years of this century could not take place without causing a decline in the N.R.R. to a level substantially below par. However, the fertility decline from the post-war peak has been shown to have been virtually arrested with the N.R.R. in the region of unity, and it remains for the records of the next few years to reveal the true post-war trend. It has to be borne in mind that the very youngest generations involved in the reproduction rate were married at earlier ages than the older generations and that to the extent that they will complete their family building earlier they will have lower fertility rates at older ages than are assumed in the reproduction rate. This means that the reproduction rate has been temporarily inflated by earlier marriages and true replacement may turn out to be appreciably below unity (Carrier N.H: Population Studies, Vol. IX, No. 1, 1955).

Age, Duration and Parity

Revision of Tabulation Design

As from 1952 a number of important changes have been made in the form of the tables in the Statistical Review which provide the annual fertility analyses based upon information obtained under the Population (Statistics) Act, 1938.

Tables AA to EE of Part II of the Review are, with a few modifications, similar to the corresponding tables in the previous series. Table FF (previously GG) now includes live and still birth rates per 1,000 legitimate maternities. Tables RR, SS and TT correspond to those previously designated VV, XX and YY. The former Table WW is discontinued.

A new Table (Table GG) shows birth rates by age of mother for Standard Regions, Conurbations and Density Aggregates; it also includes legitimacy, sex and stillbirth proportions which were formerly given in Table HH.

The analysis of legitimate maternities by mother's age, marriage duration and previous live-born children in Tables HH, II and LL, is confined to maternities to women married once only. This restriction was made necessary by the continued poor quality of data in respect of women married more than once. The 1952 records for almost a third of such women were incomplete in respect of one or more of the fertility particulars as compared with a trivial proportion (about ½ per cent) of women married once only. The maternities excluded by this restriction are of marginal importance since they represent a very small

fraction of the total (about 3 per cent) and the small fertility differential associated with second and subsequent marriages has an insignificant effect upon the total national experience. Table MM relates to legitimate maternities to women married once only, distinguishing parity, age and year of marriage for successive marriage cohorts.

Tables JJ and NN show estimates of the numbers of married women (married once only) at risk of child bearing in the calendar year (a) according to age and duration of marriage and (b) according to age at marriage and year of marriage. There is a fundamental difference between the figures in these tables. Table JJ is required for the production of legitimate maternity rates per year of risk (shown in Table KK) and each married woman exposed to risk for a fraction of a year, only counts as this fraction. Table NN is required for the production of legitimate maternity rates per married woman (shown in Table OO, and subsequently accumulated to show average family size in Table PP) and each married woman exposed to risk at any time in the calendar year counts as a full unit.

In Tables AA, HH, II, LL and MM, the "not stated" cases have been proportionally distributed and included with the "stated" cases. Table QQ shows the numbers of cases so distributed and the proportions per 10,000 total legitimate maternities. Cases where the number of live born, now dead, children was not known by the informant at the registration of the birth have not been treated as "previous children not stated" since the current level of child mortality is sufficiently low to permit it to be assumed without risk of serious error that in these cases there were no such children.

A change has also been made in the method of identifying marriage duration in order to secure better correspondence with the completed month or year descriptions in the column headings of the tables, and the qualifications imposed prior to 1952, viz. that the actual durations were approximately half a month less than those indicated by the tables, is no longer operative.

Owing to the complexity of tabulations involving identification of legitimacy, age of mother, duration of marriage, number of previous children and various combinations of those factors, it is not practicable or economical to provide completely parallel classifications of both births and maternities. The tabulations provide full analyses by the two factors of legitimacy and mother's age for both births and maternities (Part II, Tables AA to FF and TT), but the legitimate fertility tabulations involving duration of marriage or number of previous children are restricted to maternities (Tables HH to OO and QQ). Maternities are slightly greater in number than the corresponding number of live births (stillbirths included in the former being in excess of the plural births excluded) but the excess is small and the maternity tabulations can be converted to live birth tabulations with sufficient accuracy for most purposes by the application of the appropriate live birth-maternity ratios. Ratios for 1938 to 1951 have been shown in previous texts, and for 1952 are shown below in Table VII.

Table VII.—Ratio of Legitimate Live Births to Legitimate Maternities by Mother's Age at Maternity, 1952, England and Wales

	Mother's Age at Maternity										
Calendar Year	All ages	Under 20	20-	25-	30-	35-	40 & over				
1952	0.990	0.987	0.991	0.993	0.992	0.985	0.965				

Incomplete Statement at Registration

The records of successive years have been subject to varying degrees of incompleteness through the occasional failure to obtain at birth registration a record of the mother's age, duration of marriage, or the number of her previous children. The proportion of "not stated" cases of various types in the records for the year 1938, the first of the series, and for the years 1945 to 1952 are given in Table VIII.

Table VIII.—"Not Stated" cases per 10,000 Total Legitimate Maternities 1938 and 1945 to 1952, England and Wales

Type of information not stated	1938	1945	1946	1947	1948	1949	1950	1951	1952*
Age only	21 5 	20 3 	20 3 	19 3 	17 2 	19 2 — 6 22 24 4	18 2 -6 20 20 3	16 2 - 6 24 19 3	14 5 — 32 —
Total, all types	190	112	106	102	84	77	70	70	51
All age types All duration types All children types	51 125 76	34 60 50	33 61 42	35 53 46	27 39 38	28 34 34	26 31 29	24 35 28	19 37 —

^{*} For the year 1952 the figures relate to women married once only.

In 1938, the first year of the operation of the Population (Statistics) Act, the additional information required by that Act was deficient in one form or another in 1·9 per cent of total legitimate registrations, but by 1951 the deficiency had fallen to 0·7 per cent. Restricting the tabulations in 1952 to women married once only can be seen to have had the effect of reducing the deficiency still further to 0·5 per cent. The date of marriage, from which the duration of marriage is obtained, has been the most frequent item of information omitted but such omissions have become much less frequent of recent years, falling from 125 per 10,000 legitimate maternities in 1938 to only 37 per 10,000 in 1952.

The number of previous children was omitted for 76 per 10,000 legitimate maternities in 1938, but the proportion had fallen to 28 in 1951 and in 1952 for women married once only there were effectively no omissions. The frequency of omission of mother's age was 51 per 10,000 in 1938, but only 24 in 1951 on the old tabulation basis and 19 in 1952 on the new.

There is no reason to suppose that the omissions were generally intentional or prejudiced and therefore as already stated above it has been considered justifiable to incorporate in tables AA, HH, II, LL and MM a proportional distribution of the "not stated" amongst the "stated" cases as being from the users' point of view, the more convenient form of presentation.

Illegitimate Births and Pre-marital Conceptions

Of the 673,735 live births which occurred in 1952, 32,549 or 4.8 per cent were registered as illegitimate compared with an average of 5.4 per cent in the postwar years from 1946 to 1951, an average of 6.2 per cent over the war period 1939-1945, and an average of 4.2 per cent in the pre-war years from 1935 to 1938. The proportion of births that were illegitimate, after having been stable

for many years, rose during the war to some 50 per cent above the pre-war level. Since the war the proportion has declined, but in 1952 it was still 14 per cent above the pre-war figure.

In terms of the numbers of single, widowed and divorced women aged 15 to 44 in the population, the illegitimate birth rates, which had fallen from over 18 per 1,000 related women in the middle of the nineteenth century to 8·4 in 1901-1905 and 5·5 in 1931-1935, rose from the outbreak of war to a peak of 16·1 in 1945. It has declined since to 9·8 in 1951 and rose only slightly to 10·0 in 1952. Expressed in this form, the incidence of illegitimacy in 1952 was more than 80 per cent above that of pre-war years. The reason for the wide discrepancy between the impression given by these two alternative measures is that the high marriage rates of recent years have depleted the population of the non-married. The incidence of illegitimate births relative to legitimate births should therefore have fallen sharply, and that it has not done so implies a much increased rate of illegitimate births per 1,000 non-married women. The choice of measure has to be decided on grounds of convenience. Neither can be strictly justified since illegitimacy is not necessarily geared to legitimate fertility or related to all non-married women.

The numbers of illegitimate births registered from 1851 are published in Table B of Part II and rates in Table C.

Attention has been drawn in previous commentaries to the fact that legitimate but pre-maritally conceived births and illegitimate births are complementary from the aspect of extra-marital sexual behaviour, and should be considered together. Tabulations of legitimate births by duration of marriage are not made, but tabulations of maternities are available and enable the necessary statistical analysis to be carried out. For 1952 the number of maternities occurring within 9 months of marriage are taken to indicate the number pre-maritally conceived. Prior to 1952 for convenience of tabulation it was considered permissible to take the dividing line at approximately $8\frac{1}{2}$ months.

Table IX shows the numbers of illegitimate and pre-maritally conceived maternities for each year from 1938 (when tabulations by duration of marriage were first made) to 1952. (The 1952 figure in column (3) is comparable with those for previous years in so far that it relates to pre-maritally conceived legitimate maternities of all marriages.) As an indication of the effect of the change in duration tabulation in 1952 it may be stated that on the new basis the 1951 percentage in column (5) would be raised from 12·3 to 13·0 by the addition of one half month's maternities.

It has been pointed out in previous commentaries that, as the incidence of illegitimate maternities increased at the onset of war [shown in column (2) of the table], the incidence of pre-maritally conceived legitimate maternities decreased [shown in column (3)], and the sum of the two [shown in column (4)] suffered much less fluctuation than either of its components. It is likely that physical separation and other disturbances of the war prevented or militated against the marriage of the couple after conception but before the birth and produced an apparent shift of a substantial number of maternities from the pre-maritally conceived legitimate category to the illegitimate category during war and immediate post-war years. It therefore seemed reasonable to expect that, when war conditions passed, a return would be made to the pre-war pattern. From column (6), which shows the proportion of extra-marital conceptions followed by the marriage of the parents before the birth of the child, it may be seen, however, that the proportion was steady at 70 per cent before the war, and that after the war-time disturbance had passed it settled in 1948 at 60 per cent. It was shown in the Text for 1951, page 27, that this difference in levels was mainly due to considerable reductions in the proportions at ages above 20, especially at ages 25-34.

Table IX.—Illegitimate Maternities and Pre-maritally conceived legitimate maternities, 1938 to 1952, England and Wales

Vear	Illegitimate maternities		Pre-maritally conceived legitimate	Total matern extra-r	Percentage of extra-mari- tally conceived maternities legitimated by			
Teat		macrimes	maternities			marriage of parents before birth of child		
1		2	3 4 4		3 4 5		5	6
1938		28,160	66,221	94,381	14·6	70·2		
1939		26,569	60,346	86,915	13·8	69·4		
1940		26,574	56,644	83,218	13·7	68·1		
1941		32,179	43,362	75,541	12·7	57·4		
1942		37,597	40,705	78,302	11·8	52·0		
1943		44,881	37,271	82,152	11·8	45·4		
1944		56,477	37,746	94,223	12·3	40·1		
1945		64,743	38,176	102,919	14·9	37·1		
1946		55,138	43,488	98,626	11·8	44·1		
1947		47,491	59,633	107,124	12·0	55·7		
1948		42,402	62,304	104,706	13·4	59·5		
1949		37,554	59,185	96,739	13·1	61·2		
1950		35,816	54,188	90,004	12·8	60·2		
1951		33,444	50,477	83,921	12·3	60·1		
1952		33,088	50,721	83,809	12·3	60·5		

Table X.—Extra-maritally conceived maternities per 1,000 unmarried females, 1938 to 1952, England and Wales

Age of mother	1938	1939	1940–1945 Average	1946	1947	1948	1949	1950	1951	1951 Adjusted (on 1952 duration basis)	1952
15 20 25 30 40-44	12·0 37·1 27·6 16·0 10·6 4·2	12·1 36·5 26·6 15·8 10·0 4·0	11·1 36·5 35·0 23·5 13·0 5·2	11·4 42·3 44·3 33·6 17·9 6·0	12·6 49·7 50·6 35·3 18·9 6·2	14·3 50·8 47·5 33·4 18·5 6·0	15·5 47·4 40·9 32·7 18·1 5·8	15·2 44·7 41·4 29·7 17·6 5·4	14·6 42·8 38·7 30·6 17·0 5·7	15·0 46·3 41·6 32·1 17·5 5·8	15·1 46·4 39·1 28·5 16·2 5·3
15–44	19.8	19:0	20.9	25:0	28·1	28·3	26.8	25.6	24:7	26.2	25.4
Ratio to 1938: Crude Age Standardised	1.00	0.96	1·05 1·07	1.26	1:41	1.42	1.35	1.29	1.25	1.32	1.28

Extra-maritally conceived maternities related to the population at risk, viz: unmarried females, are shown in Table X with distinction of mother's age. To facilitate the comparison of the 1952 rates with those of previous years, an additional column for 1951 has been provided showing the rates that would have been produced in that year if the duration tabulations had been on the revised basis adopted in 1952.

The highest rates are for women aged 20-24 and 25-29. Before the war the highest rate was clearly that of the 20-24 age group, but since the war the difference between this and the succeeding age group has narrowed considerably, indeed in 1946 and 1947 the rate was actually higher in the older of the two groups.

The increases in the rates at ages over 30 as compared with 1938, although considerable, are not as important, from the point of view of the resulting increase in the numbers of extra-maritally conceived maternities, as the much smaller increases at the younger ages, the assumed population at risk at ages over 30 being only some 25 per cent of the total aged 15-44. (As has been remarked earlier the population actually at risk depends on factors other than age and marital condition).

In 1952 68 per cent of the illegitimate and 94 per cent of the legitimate extramarital maternities, i.e. a total of 84 per cent of all pre-marital conceptions, related to mothers under the age of 30.

Legitimate Births and Fertility

Of the total live births which occurred in 1952, 641,186 were registered as legitimate, compared with 766,800, 834,423, 733,732, 693,611, 661,847 and 644,758 in the post-war years 1946 to 1951 respectively, and 594,825 in the last pre-war year, 1938. Since the post-war peak year of 1947, the number of legitimate live births has declined each year, but by a progressively decreasing amount. The legitimate live births in 1948 numbered 101,000 less than those in the previous year, in 1949 they were 40,000 less, in 1950 32,000 less, in 1951 17,000 less and in 1952 4,000 less. The inevitable decline from the artificially inflated birth incidence of 1947 has been completed and a period of relative stability seems to have been reached.

The purpose of this section, however, is not merely to confirm the broad trend of fertility, already indicated in earlier paragraphs, but to bring into relief some features of fertility experience which are relevant only to married women and for whom alone the essential statistics are available. It is important to emphasise again that too much should not be read into the apparent stabilisation of the annual number of legitimate live births above that of 1938, since there have been sharp and non-recurring changes in the associated population at risk in consequence of the new post-war pattern of the marriage experience.

It is customary to relate child-bearing to women of ages 15-44, and legitimate births to the married women within these ages. Owing to the very high marriage rates of the last 15 years, to which attention is drawn in the marriage section of this commentary, the number of married women aged 15-44 in the population is higher than ever before, although the number of women of all marital conditions of these ages has been declining, as the following summary statement shows:

Soldalises and seasond SERL of	Women enumera	ated aged 15-44	See primar pull
omen, while or the same mine rise net result being to erthau	All marital conditions (thousands)	Married (thousands)	Proportion married
1931 Census	9,825 9,486	4,917 6,135	50 per cent 65 per cent

Thus the current legitimate live birth experience, when related to the number of married women at risk, as in the following statement extracted from Table C of Part II, compares less favourably with similar rates for the pre-war period, than do rates based upon all births and all women without regard to marital condition.

Year	1938	1946	1947	1948	1949	1950	1951	1952
Legitimate live birth rate per 1,000 married women aged	A STATE OF THE PARTY OF THE PAR	990 B	nibess av. sid	ana sid Long	1 1941 L	au ch	idwid Lai J	ended
15–44	110.0	128.7	139.7	121.7	114.4	108.6	105.4	104.5

The rate, though recently falling more slowly than immediately after the peak year of 1947, has nevertheless declined to 5 per cent below the level of 1938.

The analysis of legitimate fertility must take account of differences in birth rates of women of different ages (within the range 15-44) and of different durations of marriage.

It was pointed out in the Text for 1951 that married women under the age of 45 have been on the average younger since 1938, though the population of all women aged 15-44 (without distinction of marital condition) has been ageing during this period. The ageing of the population in general arises from the rapid decline in fertility in earlier years. The adolescent girls of today represent smaller generations than their mothers; the youthfulness exhibited by the married population means therefore that these younger generations are marrying at higher rates which more than counterbalance their smaller numbers in determining the replenishment of the population of married women.

It was also shown that while recent high marriages rates have increased the proportion of married women at short durations, most of these women, having been married at earlier average ages than women married in previous years, are not at shorter marriage durations than would be implied by their attained age. Any standardisation for comparison with an earlier experience, e.g. that of 1938, has to take full account not only of the fact that young women by virtue of their youth can only have been married for a short time, but also for the earlier age at marriage of those of a particular attained age, i.e. for the fact that the lower average age of recent marriages means that at present ages the married women of today have been married longer than women of the same ages in 1938.

After standardising for age and duration, the 1951 rate was only 3.7 per cent below that of 1938 while the crude rate was 4.4 per cent lower. This small difference was held to demonstrate that the sharp changes in marriage experience had not produced any temporary artificial inflation of the birth rate; but that on the contrary the crude rate had been slightly deflated.

The same standardisation is not appropriate to 1952 because the available durational tabulations relate to women married once only and this restriction increases the average duration of the older women while at the same time reducing the average age of total women at risk; the net result being to deflate the crude fertility rate still further. For proper time comparisons it will be necessary to build up a new series of figures based upon women married once only.

The crude rate of 104.5 per 1,000 for 1952 relates to all married women aged 15-44. It is only slightly below that for 1951 and though 5 per cent below 1938 it has been depressed by recent marriage experience. The picture is still of comparative stability.

Legitimate Fertility by Mother's Age and Duration of Marriage

Legitimate maternities at successive marriage durations are classified by individual ages of the mother in Table 00 of Part II of each year up to 1951 and from 1952 in Table II, which refers to women married once only. The corresponding maternities of all married women for 1938-1945 were shown in Table IV of Appendix I on page 168 of the 1940-45 Civil Text, and for 1946-1950 in Table 4 of Appendix II on page 188 of the 1946-50 Civil Text.

Annual rates corresponding to the maternities are shown in Table KK and have been obtained by relating them to the estimated years of married life exposed to risk, the calculation of which was described in Appendix II of the 1940-45 Civil Text. Similar annual rates (subject to tabulation changes) for 1938-1945 appeared in Table V of Appendix I on page 172 of the 1940-45 Civil Text and for 1946-1950 in Table 5 of Appendix II on page 192 of the 1946-50 Civil Text. It should be noted that a maternity rate expressed per year of married life may be regarded as equivalent to the annual rate per married woman. The rates shown are maternity rates and to obtain equivalent birth rates they should be multiplied by the appropriate ratios of births to maternities.

Analysis by Age.—Table XI shows the numbers of legitimate maternities by mother's age at maternity, for the pre-war year 1938, the average annual numbers for the period 1939-1949 covering the war time disturbance and postwar recovery, and for each individual year from 1946 to 1952. In the lower part of the table is shown the distribution of these maternities per thousand total over the six quinary age groups of mothers between 15 and 45 (the few cases at ages over 45 being included in the final group.)

Table XI.—Distribution of Legitimate Maternities by Mother's Age, 1938 to 1952, England and Wales

Mother's age	1938	Average 1939–49	1946	1947	1948	1949	1950	1951	1952
		Tota	l number	of mate	rnities (in	n hundre	ds)	Live Style	
	610,7	674,7	777,6	844,0	741,5	700,5	668,3	651,0	647,6
	oriest-c	nestrone	Age dist	ribution	per 1,000	total	CONSTRUCTOR		TOTAL TOTAL
15 20 25 30 35 40 and over	36 233 324 237 126 44	31 248 309 232 135 45	23 231 304 253 146 43	27 255 321 225 132 40	34 268 325 204 128 41	38 274 338 190 121 39	39 272 332 199 120 38	38 275 327 208 115 37	38 280 322 216 108 36

Throughout the period the largest proportion (about one third) of maternities occurred to mothers between the ages of 25 and 30, but the distributions are not sharply peaked and proportions not very much smaller in size were associated with mothers in the immediately older and younger age groups. Altogether the maternities between ages 20 and 35 have accounted for about 80 per cent of the total in each period shown in the table. During the war and immediate

post-war years there were two main changes in the distribution—a shift to the older mothers, whose lives were less disturbed by the war, and a rise in the proportion at age 20-24 following the large increase in numbers of young brides in 1939 and 1940. This was followed by a complementary and temporary shift to the younger ages, where the greater degree of war separation implied postponed births. More recently the continued high incidence of marriages at young ages has tended to maintain the preponderance at the younger ages, with an average age of mothers younger than in 1938.

In Table XII these maternities are related to the women at risk in the form of rates per 1,000 married women at each age in each calendar year.

Table XII.—Legitimate Maternity Rates by Age, 1938 to 1952, England and Wales

And the same		· · · · ·	-		CONTRACTOR OF	of the same of the same	m 15		Service Marie	
Moth		1938	1939–40	1946	1947	1948	1949	1950	1951	1952
		1	Maternity ra	ates per	1,000 ma	rried wo	men			
15- 20- 25- 30- 35- 40-		550 272 175 112 61 23	371 246 176 116 67 23	348 252 210 143 81 26	469 310 228 142 79 26	468 284 191 119 67 23	472 270 182 109 60 20	461 255 173 106 57 19	424 254 169 104 53 17	420 252 169 103 51 17
15-44	•••	113	114	131	141	123	116	110	106	106

In every period shown in the table, the rates decline with age, at first sharply and thereafter more slowly.

The crude maternity rates in 1952 are lower than those of 1938 at every age though much less so at the central ages where most of the maternities are concentrated than at the extremes. When changes in marriage duration are borne in mind it is even more evident that between the ages 20 and 35, there is very little difference between the rates for 1938 and 1952, the decline being mainly confined to the very young or to the much older women.

As far as the older women are concerned, women over age 35 will in general have been married for several years. The rates they had experienced on average in 1939-49 when some 5 to 10 years younger than their 1951 age may be seen to have been above the 1938 rates. Thus the subsequent decline does not necessarily suggest that they will ultimately have smaller families than generations of some 10 to 15 years earlier.

The decline at the youngest age group which contributes only 4 per cent of all maternities is more than accounted for by a reduction in pre-marital conceptions. For example in 1938, of 21,878 legitimate maternities to mothers under age 20, 15,513 or 70.9 per cent had been pre-maritally conceived. The similar figures for 1952 were 14,765 out of 24,349 or 60.6 per cent. If the post-maritally conceived element in 1952 had remained the same (9,584) but the pre-maritally conceived element had increased to form the same proportion of the whole as in 1938, there would have been an additional 8,586 maternities to this age group in 1952, increasing the maternity rate to 3.3 per cent above the 1938 rate.

Analysis by Duration of Marriage.—The distribution of legitimate maternities according to marriage duration* is shown for 1938,1939-49, and the individual years 1946 to 1952 in Table XIII.

The adjusted column for 1951 indicates the effect of the shift of one half a month in duration tabulation introduced in 1952.

Table XIII.—Distribution of Legitimate Maternities by Marriage Duration, 1938 to 1952, England and Wales

Marriage duration	1938	Average 1939–49	1946	1947	1948	1949	1950	1951	Adjusted (on 1952 duration basis)	1952* (married once only)
Pre-ma	ritally co	onceived pe	r 1,000 t	otal legiti	imate ma	ternities	of each y	ear		
0-8½ months	106	73	56	71	84	84	81	78	86	81
	Distrib	oution per 1	,000 tota	al conceiv	ed after	marriage	in each y	vear		0
8½-11½ months 1- year	60 154 122 104 88	60 149 112 96 85	61 123 78 77 89	69 152 95 73 77	74 159 120 86 65	63 167 125 107 77	62 155 127 109 96	60 150 122 114 99	148 122 114 100	61 141 120 110 101
5-6 years	131 138 203	146 152 200	197 169 206	166 180 188	135 177 184	119 166 176	117 146 188	141 124 190	141 125 190	156 120 191

^{*} Subject also to the change in duration interval referred to on page 24.

The most striking change shown by this arrangement of the data is that for the first duration identified, namely that adopted as encompassing the incidence of pre-maritally conceived maternities. In 1938 these maternities accounted for 106 per 1,000 of the total legitimate maternities recorded. The proportion fell rapidly during the war and then rose but it has never regained its pre-war value. The 1952 proportion is not strictly comparable with those of previous years owing to the additional one half-month's maternities and the restriction to women married once only. If this difference is taken into account by reference to the adjusted proportion for 1951, it seems that the slight downward trend noted since 1949 has continued though the movement is small and the general level is still at about 80 per thousand.

To avoid the influence of these pre-marital conceptions upon the distributions of later durations, the proportions for the latter in the lower part of Table XIII are shown per 1,000 conceived after marriage. War conditions encourage the postponement of births, but in a distribution of maternities by duration of marriage neither the aggregation of the experiences of the war and immediate post-war years nor any other simple expedient can eliminate or effectively mitigate the abnormality of the period, as has been done in the previous sections, because the postponement is not merely to a later year but to a later duration. A second factor influencing the incidence of maternities by duration has been the wide fluctuations in marriage rates, leading to corresponding fluctuations in the numbers of mothers at risk at the various durations; and the effects of this second factor have not yet been exhausted. Thus the fact that a shift of incidence from shorter to longer durations may be seen from Table XIII to be the current trend, must not be taken to be an indication of a change in family spacing; it is associated with a parallel shift in distribution of married women at risk. The effect of the changing distribution of the numbers at risk is removed in Table XIV where the numbers of maternities at each marriage duration are expressed as a rate per 1,000 married women aged 15-44 passing through the duration specified.

^{*}Up to 1951 durations shown in years, e.g. 1-, 2-, etc. should be read as strictly meaning $11\frac{1}{2}$ months—1 year $11\frac{1}{2}$ months, 1 year $11\frac{1}{2}$ months—2 years $11\frac{1}{2}$ months, etc. From 1952 the initial interval is 9 months and the remaining intervals may be taken at face value.

Table XIV.—Legitimate Maternity Rates by Duration of Marriage, 1938 to 1952. England and Wales

		1938	Average 1939-49	1946	1947	1948	1949	1950	1951	Adjusted (on 1952 duration basis)	1952* (married once only)
See Jan Colomba		Rates	s per 1,000	Married	Women	aged 15-	44 at ea	ch durati	on		
0-8½ months 8½-11½ months 1 year 2 years 3 years 4 years 5 years 6 years 7 years 9 years 9 years 10 years and over		187 98 244 203 177 156 138 119 105 94 81 46	135 104 258 200 175 160 147 136 120 103 91 48	117 120 283 213 194 189 182 175 154 132 115 57	159 151 332 242 218 213 196 176 155 132 114 55	162 130 295 230 193 173 162 143 126 111 96 46	164 110 283 222 197 167 148 146 118 95 87 41	158 109 266 209 189 172 143 123 114 98 84 40	151 108 266 209 186 171 149 120 103 94 81 38	167 108 262 207 184 170 148 119 102 94 80 38	167 113 265 224 198 176 155 131 111 91 83 37
All durations		113	115	131	141	123	116	110	106	106	107
All durations from months	81	106	111	129	137	118	110	105	102	101	102

^{*} Subject also to the change in duration interval referred to on page 24.

Disregarding the rate at under $8\frac{1}{2}$ (9) months duration, associated with premarital conceptions, and remembering that each married woman is only exposed for a quarter of a year to the risk of maternity at durations $8\frac{1}{2}$ - $11\frac{1}{2}$ (9-12) months, it may be seen that in every period considered the rates decline with lengthening duration, at first steeply and thereafter more gradually.

Apart from the reduced incidence of pre-marital conceptions which has been referred to already, the 1952 rates are higher than those of 1938 at short durations and lower at durations longer than 8 years. In general the 1952 rates (though not strictly comparable) indicate only small changes from those of 1951; the rates are almost equivalent in the first two years, there is a slight rise at durations between 2 and 8 years and on the whole a slight fall at durations of 8 years and above.

Analysis by Age and Duration Combined.—The analyses so far examined show that fertility declines with advancing age of mother and also with lengthening duration of marriage, when these factors are considered separately, but to what extent either or both are responsible for the decline is not clear, since the shorter durations tend to be associated with the younger mothers and the longer durations with the older mothers, and arrangements of the data by either factor alone automatically reflect the influence of the other. For an appreciation of the separate and independent effects of these factors, tabulations of birth or maternity rates are required in which distinction is made simultaneously of age of mother and duration of marriage. Such tabulations of maternity rates for each year from 1938 to 1945 were shown in Table V of Appendix I of the Civil Text for 1940-45 on pages 172-174; for each year from 1946 to 1950 in Table 5 of Appendix II of the Civil Text for 1946-1950 on pages 192-194; and for 1951 are shown in Table 3 of Appendix B of the 1951 Text volume on page 300. Rates (per year of risk) for 1952 are given in Table KK of the Civil Tables, for women married once only.

The rates for 1952 conform generally to the pattern of earlier years. At each duration the rates decline, more or less consistently, with increasing age of mother; and, at each age of mother, after rising to a maximum in the second year of marriage (except in those under age 20 where pre-marital conceptions are relatively more numerous), they decline with lengthening duration of marriage.

The rates at durations under 9 months, conventionally attributed to premarital conceptions, may be seen to share with those at other durations the property of declining with age. The decline from the rate for mothers under age 20 to that of next older group 20-24, is very steep, the latter rate being only some 40 per cent of the former, but thereafter the decline continues more gradually. The 1952 rates do not indicate that the downward trend at all ages which was noted in 1951 has continued to any significant degree.

Excluding pre-marital conceptions (and allowing for the shift in duration in the 1952 tabulation), the rates of 1952 (as suggested by the all-age analysis of Table XIV) are generally slightly higher than those of 1951 at durations between 2 and 8 years and the rates for longer durations tend to show a falling trend. This is consistent with the suggestion that there is a current tendency to concentrate family building in the early years of married life to a greater degree than formerly. In the first two years of marriage the rates are higher at the older ages but this is probably due to the exclusion in 1952 of women married more than once.

Cohort Analysis.—In considering replacement, the total ultimate size of family produced by each married woman is of more interest than the rate at which she may be building her family at any particular time. Maternity rates may be calculated each year and aggregated from year to year to show the average total number of maternities experienced by married women over the whole of various durations of marriage, i.e. effectively to trace their family building as they pass through their reproductive married lives.

During their married lives, women pass not only through successive durations of marriage, but simultaneously through successive ages. Thus, for example, the maternity rates in 1946 at duration 0- at maternal age 20-24, and in 1947 at duration 1- and age 21-25 are both representative of a group of women married at about the same time and at the same ages, i.e. they belong to the same marriage cohort*—though a somewhat theoretical cohort—and they may be aggregated to show the average number of maternities experienced by the cohort by the end of its second year of married life. Similarly, the maternity rate in 1948 at duration 2- and age 22-26 may be added to the previous total to bring it up to the end of the third year of married life, and so on. If in place of maternity rates, rates based on legitimate live born children are used and are added to base-line data provided by census material, estimates are obtained of the family sizes (ignoring the factor of survival) at different durations of marriage and different attained ages of the various marriage cohorts who make up the current population of married women. Such estimates are shown in Table PP of the Statistical Review, Part II. The original base for this table was provided by the 1946 Family Census† to which was added registration statistics to the end of 1952. In order to focus attention on the marriage cohorts, the table is presented in a form which relates the family building to the women married in particular age groups and particular calendar years. It should be emphasised that these families are not, except for the older cohorts, complete; additions are still being made to those of the earliest cohorts and the table merely shows the average size obtained by the end of 1952.

^{*}The term cohort is used for convenience to refer to women married during the same interval of time.

^{†&}quot;The Trend and Pattern of Fertility in Great Britain "; D. V. Glass and E. Grebenik. H.M.S.O. 1954.

The following statement provides a comparison of average family sizes, in 1946 and 1952, at corresponding durations, derived from the report on the 1946 Family Census (Tables 67-72) and Table PP.

Average number of live born children

		Mar	riage dura	ation (com	pleted year	ars)	
in the authorized and the self	ed box	5 ye	ears	Densi	9 ye	ears	1301 0
Year of marriage	1930	1940	1943	1947	1930	1940	1943
Age at Marriage under 20 20-24 25-29 30-34 35-39 40-44	1·62 1·25 1·00 0·88 0·60 0·27	1·20 0·98 0·87 0·82 0·53 0·22	1·35 1·17 1·07 0·91 0·56 0·24	1.65 1.40 1.31 1.09 0.69 0.29	2·31 1·79 1·42 1·12 0·68 0·30	1·97 1·60 1·39 1·15 0·62 0·23	2·04 1·72 1·52 1·21 0·66
All ages at marriage	1.15	0.94	1.15	1.36	1.62	1.52	asic_1

From this selection of the available figures it can be seen that the cohort of women married in 1930 at ages under 20 had an average of 1.62 live births by the end of 5 years of married life and 2.31 at the end of 9 years. Those married at the same ages at the beginning of the war and subject to considerable wartime separation had only 1.20 live births at the end of 5 years, but at the end of 9 years they had an average family size of 1.97, having made up some part of the gap between the two cohorts represented by births postponed by the war. For the cohorts married at ages 20-29, this making up at later durations of the difference between family sizes at earlier durations resulting from the war, is even more striking.

The 1943 cohorts at the end of 9 years of marriage had outstripped the family sizes of earlier cohorts for ages at marriage above 25 years, but for earlier marriage ages their attained family sizes, though higher than those of the 1940 cohort, were smaller than those of the 1930 cohort, whose 9 years of marriage entirely preceded the war and were free from the factors of separation and other war conditions which affected the later cohorts.

The latest cohorts shown, those married in 1947, have, at 5 years marriage duration, average family sizes considerably in excess of those produced at the end of 5 years by women married in 1930. The ultimate family size of these post-war cohorts will not be known for several years yet, and it is a matter for speculation whether their experience up to 1952 indicates that their ultimate family sizes will fall short of those required for the replacement of the generations of mothers who compose the marriage cohorts. On various assumptions, it was estimated, in the report of the Family Census, that the marriages of 1941-43 might achieve between 94 and 98 per cent replacement. (These are not limits but merely the range of rates obtained by the different combinations of assumptions used about marriage, illegitimacy and mortality). It is probable that at 5 years duration the 1947 cohort, freed from war disturbances and subject to the tendency to complete family building in the early years of married life, has completed a greater proportion of its total family building than the wartime cohorts, and that the increase in family size as compared with earlier cohorts will not be maintained at later durations, but it seems unlikely that, as compared with the 1943 cohort, a substantial deficiency will arise.

Summar

To sum up the fertility statistics of one year in a sentence is hazardous but it could be attempted by saying that a slight decline in the birth rate reflects only small changes in fertility rates at specific age and durations of marriage; that the tendency to concentrate family building in the earlier years of married life has continued; and that unless the tendency continues (as well it may) the prospects as yet discerned are of no substantial shortfall from replacement by the women married in recent years. The fertility statistics of the next few years will be crucial to deciding the probable trend.

First Maternities (Legitimate)

Of the 626,858 legitimate maternities to women married once only, in 1952 247,352 or 39.5 per cent had not had a previous live or stillborn child by their present husbands. The records for previous years include some women married more than once and are not strictly comparable but on the basis of the experience of all women the proportion was 42.9 per cent in 1938. After the decline in the war years, the proportion rose to a peak of 45.4 per cent in 1947 when birth incidence was at a maximum and thereafter declined.

The incidence of first born children is naturally at a maximum for recent marriages and thus the proportion of first maternities among all legitimate maternities will be raised immediately following a rise in marriage incidence. If distinction is made of mothers' ages, the proportion of first maternities will be highest at the youngest ages, again because their marriages will be comparatively recent. These effects are illustrated by Table XV. The proportion of first maternities declines steeply with advancing age in all years.

Table XV.—First Maternities to existing marriages per 1,000 total legitimate maternities at each age, 1938 to 1952, England and Wales

Mother's age	1938	Average 1939–49	1946	1947	1948	1949	1950	1951	1952*
All Ages	429	433	431	454	426	410	393	388	395
Under 20	890	900	913	912	898	885	868	861	870
20 25	644 469	683	701 464	710	666	635	613	609	618
30	296	285	287	293	259	243	234	228	215
35	166	182	194	202	186	181	170	163	147
40 and over	95	119	130	143	142	140	136	137	109

^{*} First maternities to women married once only.

The rise at the end of the war and the decline after 1947 in the proportion of first maternities amongst legitimate maternities of mothers of all ages, may also be seen in the first line of the table. A certain degree of stability seems to have been reached in recent years there being little movement in the proportion since 1950. In the separate age groups, also, a similar pattern is seen in general, with a peak in 1947 above the 1938 level and a subsequent decline, apparently exhausted, to below the 1938 level.

There have been changes in marriage and family building habits which will be reflected in the proportion of first maternities. The lowering of the average age at marriage, which should lower the proportion at all except the lowest ages, may in fact be the major cause of the proportions in 1950-52 being generally lower than in 1938. The decrease on the one hand in childlessness and on the other hand in the proportion of families of the larger sizes which appears to

have been taking place, will tend to offset to some extent the decline in the proportions of first maternities arising from the lowering of age at marriage. Changes in family spacing may also be reflected in movements in the proportions but it is not at present practicable to isolate such changes.

Family building tends to be concentrated in the few years immediately after marriage and the concentration will necessarily be accentuated when consideration is confined to first births or maternities. The extent of this concentration may be seen from Table XVI showing the numbers and distribution of first legitimate maternities by duration of marriage.

Table XVI.—Numbers and Distribution by Duration of Marriage of First Maternities by existing husbands to married women of all ages, 1938 to 1952, England and Wales

Calendar	19,611				Dur	ation of	Marria	ge*					All
Year	0-8½ mths.	8½-11½ mths.	1- year	2- years	3- years	4- years	5- years	6- years	7- years	8- years	9- years	10+ years	Durations
	A me			2 - 13-	N	umbers	(hundre	eds)	10 10		Stres	biani	2015-
1938 1939–49†	63,2 48,3	32,0 37,3	70,6 80,7	35,4 40,1	21,7 25,1	13,5 17,7	8,0 13,0	5,3 9,6	3,6 6,4	2,7	1,8 2,9	4,1 6,5	261,9 291,8
1946 1947 1948 1949 1950 1951	43,0 58,9 61,2 58,1 53,5 49,9 50,1	44,6 53,2 49,3 39,7 37,5 35,4 34,3	81,4 106,4 90,6 88,9 77,3 73,6 66,9	34,2 44,0 40,4 37,6 36,8 35,0 34,5	26,2 24,4 20,6 21,4 19,8 21,6 21,5	27,9 23,0 11,4 11,4 12,2 12,7 13,9	24,9 22,2 9,8 6,4 6,7 7,9 8,4	22,2 17,7 9,2 5,8 3,9 4,4 5,5	9,8 14,0 7,6 5,1 3,4 2,4 3,0	6,3 6,2 6,1 3,9 3,3 2,3 1,8	4,7 4,2 2,9 3,5 2,6 2,2 1,7	9,7 9,6 6,9 5,7 5,6 5,3 5,7	334,8 383,6 315,9 287,4 262,6 252,7 247,4
					Distr	ibution	per 1,0	00 total					
1938	241 165 204 198 203	122 128 143 140 139	269 277 294 291 270	135 137 140 139 140	83 86 75 85 87	52 61 46 50 56	31 45 26 31 34	20 33 15 17 22	14 22 13 10 12	10 14 13 9 7	7 10 10 9 7	16 22 21 21 21 23	1,000 1,000 1,000 1,000 1,000

^{*} Durations 1- year, 2- years, etc., are more correctly 11½ months-1 year 11½ months, 1 year 11½ months-2 years 11½ months, etc., prior to 1952; in 1952 the earlier durations are 0-, 9- months.

From the lower part of the table it may be seen that over three quarters of first births are in the first three years of marriage; 76·7 per cent in 1938, 77·0 per cent in 1951 and 75·2 per cent in 1952. Although these three proportions are very similar in magnitude, an examination of their constituent parts shows a difference to which attention has already been drawn in earlier sections, namely, the decline since 1938 at durations under $8\frac{1}{2}$ months (9 months in 1952) conventionally associated with pre-marital conceptions. In 1938 these accounted for nearly a quarter of all first legitimate maternities and since 1950 the proportion has been about one fifth. Restricting consideration to later durations produces the distributions on page 31. (To facilitate comparison between 1952 and the earlier years in the series an adjustment has been made to the 1951 distribution to make an estimated allowance for the $\frac{1}{2}$ month tabulation shift).

The underlying tendency in the war and immediate post-war years to postpone births is clearly seen by the shift from shorter to longer durations in the distribution for 1939-49, as compared with the periods before and after. To a much less extent, a comparison of the distributions of 1950-51 with that of 1938 shows an opposite effect, namely a shift from longer to shorter durations, especially to durations under two years. There are exceptions to the excess of the 1938 proportions at the longer durations over those of 1950 and 1951, namely, at

durations over 8 years in 1950 and over 9 years in 1951. The same feature is carried forward to durations of 10 years and over in 1952. In the 1938 experience, these durations are affected by the abnormally low marriage incidence associated with the years of economic depression. In experiences of 1950-51 they relate to the marriages of 1942 and earlier, the years of high marriage incidence associated with the outbreak of war. This suggests that the higher proportions at these durations in 1950 and 1951 are not attributable to a higher intensity per married woman at risk, but to greater numbers at risk. In 1952 there is rather less concentration in the first two years of marriage and the distribution is generally much more similar to that of 1938.

st, aveloges ng. bedgene there is no	noise book		Dur	ation o	of mar	riage						
Period	All Durations over	8½-11½ months (9-12			100 0000	droin GILA	Year	S	Cura Bas	noi noi		er qui
edifference	(9 months in 1952)	months in 1952)	1-	2-	3-	4-	5-	6-	7-	8-	9-	10+
1938 1939–49 1950 1951	1,000 1,000 1,000 1,000	161 153 179 174	355 331 370 363	178 165 176 173	109 103 95 106	68 73 58 63	40 53 32 39	27 40 19 22	18 26 16 12	14 17 16 11	9 12 12 11	21 27 27 26
Adjusted 1951 1952*	1,000 1,000	179 174	360 339	171 175	106 109	63 70	39 43	21 28	12 15	12 9	11 9	26 29

^{*} Women married once only.

Birth Occurrences and Registration Time Lag

The statutory period allowed for registration of either a live birth or a still-birth is 42 days and as a consequence there has generally been an appreciable time lag between the occurrence of a birth and its subsequent registration. In the past the time lag has been found to decrease markedly after the introduction of an incentive to register earlier, for example, by the dependence of the issue of food ration books and Family Allowances upon birth registration. Conversely, registration has become more tardy when such incentives have been removed or have become less compelling.

The registration time lag at the beginning of each month is determined from a "sample", consisting of the first entries in that month in a fixed group of registration districts, selected haphazardly but constrained to cover the various regions of the country and both urban and rural districts. The figures shown below are the unweighted means of the time lags in days in the selected entries and refer to the beginning of the periods shown:—

				First W	orld W	'ar					
1914	1915	1	916	1917	1	918	191	9	1920	1	921
36.0	33.3	3	80.8	31.1	3	30.5	21:	2	24.3	3	31.6
				Second 1	World	War					
			1939	1940-45	1946	1947	1948	1949	1950	1951	1952
1st Quarter 2nd ,, 3rd ,, 4th ,,	201.20	p. Ibo	32·6 31·7 31·3 27·6	17·2 15·6 14·2 13·3	12·0 9·0 9·0 8·7	9·3 8·2 8·4 7·3	8·0 8·0 7·0 7·1	8·2 7·5 7·5 7·8	8·7 8·3 9·2 9·0	10·9 9·6 9·5 9·4	10·1 9·3 9·5 10·0

[†] Annual average

[‡] First maternities to women married once only; not strictly comparable with earlier figures owing to the duration shift of ½ month.

The method of calculation of these time lags is such that they may provide a biassed estimate of the average national time lag at any particular time, but to show the relative changes from quarter to quarter—the purpose for which they were originally intended—the retention of the original areas has some merit, and it seems reasonable to suppose that the broad changes shown do reflect the true national experience.

In the First World War period the decrease in the time lag as a consequence of food rationing was relatively slight and was more accentuated after the war had ended. By 1921, three years after the war, the lag had been practically extended to the pre-war figure. The shortening of the interval in the Second World War was much greater and occurred more quickly but the lowest averages were again recorded after the war, viz. in 1948, when food rationing became more stringent. The increase since 1948 has been small and though there is an upward tendency the movement is slow. The continued association of birth registration and Family Allowances must make a return to pre-war practice unlikely.

The importance of these time lags arises from their influence on the difference between the number of births registered in a period and the number occurring in that period. Occurrences are usually the more appropriate statistics for fertility measurement but 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 be constant, if birth incidence is changing; and also, even though 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, and was very small in the settled conditions of 1952 as the following figures show:—

Ratio of bir	th occurrences	to regi	istrations
--------------	----------------	---------	------------

1939	1940	1941	1942	1943	1944	1945
-992	-972	.986	.996	1.002	1.009	·992
1946	1947	1948	1949	1950	1951	1952
1.001	.993	·998	-999	1.008	.997	1.001

Seasonal Incidence of Births

The pre-war incidence of legitimate live births followed a regular annual cycle with a minimum in the fourth quarter (corresponding to conceptions in the first quarter) and a maximum in the second quarter (corresponding to conceptions in the previous third quarter). Table XVII shows the quarterly distribution in 1939, a typical pre-war year. The war disturbances, especially the sharp fluctuations in the birth rate, distorted this pattern, but the table shows that by 1951 a return had been made to the seasonal periodicity of pre-war years. This is even more clearly the case in 1952.

The incidence of illegitimate births, less influenced by the war disturbances, has a minimum and maximum in the fourth and second quarters, like legitimate births, but differs in that the periodicity is associated with a larger swing, and in that the births of the first quarter (corresponding to the previous second quarter conceptions) markedly exceed those of the third quarter (corresponding to the previous fourth quarter conceptions). Here also the 1952 distribution resembles that of pre-war years.

Table XVII.—Ratio of Quarterly Births to Average Quarterly Births taken as 100, 1939 and 1946 to 1952, England and Wales

		SENOVA !				Year				
Per	iod		1939	1946	1947	1948	1949	1950	1951	1952
					Legitima	te Live I	Births			ngian
1st Quarter	A.70		99	86	109	105	102	104	103	102
2nd "	19		106	99	106	103	105	104	107	104
3rd ,,			101	105	97	99	100	98	99	100
4th "	besq	H C.M	94	100	88	93	93	94	91	94
Year			400	400	400	400	400	400	400	400
		STORES.		I	legitimat	e Live B	irths			ninkom
1st Quarter			105	107	110	107	105	106	104	103
2nd ,,			107	110	108	109	106	107	109	107
3rd ,,			100	95	98	96	99	96	96	100
4th ,,			88	88	84	88	90	91	91	90
Year			400	400	400	400	400	400	400	400
		Smith			Legitima	te Stillbi	irths		ai sector	oo A
1st Quarter	1		104	91	115	109	104	104	107	1 107
2nd "			104	99	105	102	105	104	103	102
3rd "			98	101	93	96	97	97	95	94
4th ,,			94	109	87	93	94	95	95	97
Year			400	400	400	400	400	400	400	400

Variations in the incidence of legitimate stillbirths are due to the combined effect of two factors, the seasonal incidence of all legitimate births, live and still, and seasonal variations in stillbirth rates, the former having the greater influence. Thus there is a strong tendency for the distribution to follow that of live births, but the effect of the generally higher stillbirth risk in winter months can be seen.

Table XVIII.—Relative Birth Incidence in Calendar Months, 1939, 1950 to 19 52, England and Wales

Mon	th of		Leg	itimate	Live B	irths	Ille	gitimate	Live B	irths	Le	gitimate	Stillbir	ths
Occur	rence	udi	1939	1950	1951	1952	1939	1950	1951	1952	1939	1950	1951	1952
January February March April May June		G.:	980 995 1,041 1,073 1,078 1,043	1,022 1,044 1,085 1,065 1,049 1,025	1,005 1,041 1,076 1,076 1,084 1,057	990 1,035 1,062 1,062 1,051 1,006	1,076 1,041 1,080 1,046 1,138 1,044	1,051 1,059 1,107 1,068 1,076 1,075	982 1,071 1,098 1,111 1,117 1,061	983 1,026 1,082 1,101 1,073 1,063	1,043 1,045 1,078 1,068 1,060 1,002	1,038 1,098 1,043 1,081 1,023 1,015	1,036 1,115 1,119 1,059 1,058 977	1,055 1,101 1,069 1,078 1 011 984
July August September October November December			1,025 985 1,004 939 914 927	969 960 1,002 941 917 926	1,016 968 973 892 882 936	1,000 974 1,006 954 923 938	1,038 960 969 859 853 898	948 931 984 912 873 920	1,011 919 938 869 870 957	1,034 958 986 879 898 921	984 972 963 938 932 917	937 964 995 916 958 944	968 935 908 931 944 954	928 941 951 989 963 937
Year			1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,00

Since 1938 tabulations of births by month of occurrence have been shown in Table YY of Part II up to 1951 and in 1952 in Table TT, and permit a closer study of the seasonal incidence of births. The length of calendar months varies, and therefore to allow for this, Table XVIII shows daily averages.

The figures must be accepted with some slight reserve since the daily average is a sensitive index and there has not yet been a period of stable conditions (the annual birth incidence is still slowly changing) to permit a clear pattern to emerge.

For legitimate live births, the table shows that in 1952 the daily average rose sharply until March and April and resembled 1950 in that the average fell thereafter; this contrasts with 1951 when the average continued to rise into May. In that month of 1952 a steep decline occurred interrupted only by a minor peak in September (corresponding to conceptions at Christmas when there is a concentration of new marriages) following the normal pattern. After reaching a minimum in November (below the annual daily average by 8 per cent in 1952) the rising phase commences and continues into the following year as the cycle repeats itself.

The course of illegitimate births in both years exhibits the same features as that for legitimate births, including the minor upward fluctuation in September, but the amplitude of the cycle is greater.

A comparison of the ratio shown in Table XVIII for legitimate stillbirths and live births shows the same general similarity as was indicated by the quarterly table, the higher stillbirth rates of the winter months exercising a perceptible influence.

Sex Ratio at Birth

In 1952 there were 1,054 male live births per 1,000 female live births. This ratio was 6 per thousand less than in the previous year.

In the present century there has been an upward but irregular trend with three distinct periods when the sex ratio was temporarily lifted above the long term trend. The first occasion was in the years 1919 to 1922, the second between 1934 and 1937 (approximately) and the third from 1942 to 1944. It has been suggested that the first and third of these increases were in some way attributable to war conditions and the second to the abnormal economic conditions of the 1930's, but these suggestions have never been substantiated to the extent of demonstrating causation. It might be conjectured that these three periods were alike in containing an undue proportion of first births to young mothers, in the marriage booms after the First World War, after the recovery from the economic depression and—with a delayed sequence in births perhaps attributable to war conditions—at the onset of the Second World War, but these suggestions are, at best, plausible. Attempts to produce convincing evidence have so far failed.

The generally rising trend in the sex-ratio in the present century can be attributed to the continuous reduction of foetal mortality. Biologically, sex is determined, not at birth, but at conception, and losses from abortion and still-births intervene between conception and live birth. Thus, since abortion and stillbirth rates are known to be higher for males, the sex ratio of live births will differ from that of conceptions. Further, reductions in abortion and stillbirth rates would produce increases in the sex ratio of live births, although the sex-ratio at conception might remain constant.

Table XIX.—Male Births per 1,000 Female Births distinguishing Legitimacy and whether Live or Still, Quinquennia from 1928 to 1950, 1951 and 1952, England and Wales

-HDE REIDO	ms issis	Legitimate	Births	thonors	Illegitimate	Births
Period	Live	Still	Live and Still	Live	Still	Live and Stil
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	1,060	1,179	1,062	1,060	1,277	1,066
1952	1,054	1,149	1,056	1,066	1,194	1,070

From Table XIX, which shows masculinity for live and stillbirths in both legitimate and illegitimate sections, it may be seen that the proportion of boys is consistently higher amongst stillbirths than live births, and this implies that stillbirth losses are greater for boys than girls. It will also be noticed that as the stillbirth rate has been reduced the sex mortality differential has also been reduced so that the masculinity of legitimate stillbirths has generally fallen since 1928-30.

For legitimate live births 1952 presents a sharp downward fluctuation from the high level of masculinity reached as a result of a long term upward trend. This is a larger fluctuation than has occurred for several years, but it is no more explicable than previous sudden movements in the ratio. The upward trend in masculinity has persisted for illegitimate live births.

Multiple Births

During 1952 there were 689,371 births (live and still) from 680,715 maternities, the excess of 8,656 being the additional children born in multiple births. Tables CC and DD of 1952 Part II give details of the 8,590 maternities with multiple births and show that 8,525 produced twins, 64 triplets and 1 quadruplets, a total of 16,280 live and 966 stillborn children.

The frequencies of multiple maternities and births in the current year compared with the whole period since 1938 when the data was first tabulated are summarised as follows:—

	All M	ultiple	Tw	ins	Triplets		
	1938–51	1952	1938-51	1952	1938–51	1952	
Mutliple Maternities* per 1,000: Total Maternities	10.26	Season les	A CONTRACT	erdey, an	The state of the s	THE STREET	
Multiple Births per 1,000:	12.36	12.62	12.25	12.52	0.108	0.094	
Total Births Live born children Stillborn children	24·53 23·70 52·93	25·02 24·16 61·78	24·20 23·39 51·83	24·73 23·90 60·57	0·320 0·298 1·075	0·279 0·258 1·151	

^{*} A maternity is treated as multiple whether or not the children involved are live or still-born.

The probabilities of a multiple event occurring will be the reciprocals of the rates shown above, so that taking mothers of all ages together the chance of a multiple maternity was 1 in 81 in 1938-1951 and 1 in 79 in 1952. Likewise 2 out of every 82 children born in 1938-1951 were twins, triplets or quadruplets, and 2 out of 80 in 1952, the proportion being about twice as great amongst still-born children as amongst live born.

Birth Rates in Different Parts of the Country

The birth rates of individual administrative areas in 1952 are given in Tables 12 and E. They are summarised in Table XX, which shows, for each standard region, conurbation and density aggregate, live birth rates and the ratio of the local to the national rate. In Table XXI these rates are ranked in order of size.

Table XX.—Birth Rates by Standard Regions, Conurbations and Density Aggregates, 1952

(All the ratios were calculated before rounding off the rates)

Area .	Crude	A STATE OF THE STA		portion mar-	Illegitimate Live Births		
	Rate per 1,000	Adjusted Birth		f Local to	ried among Females 15-44 to	Crude Rate per	Ratio of
neith vitaienes ant of	Home popula- tion	Rate	Crude	Adjusted	national proportion as at 1951 Census	1,000 Home Popula- tion	Local to National Rate
ENGLAND AND WALES	15.3	15.3	1.00	1.00	1.00	0.74	1.00
Regions and Conurbations:		12100000000				Marally	272 221
Northern	17.2	17.6	1.12	1.14	0.99	0.68	0.91
Tyneside Conurbation	17.1	16.8	1.12	1.09	0.98	0.70	0.94
Remainder of Northern	17.2	17-9	1.12	1.17	1.00	0.07	0.90
East and West Ridings	15.5	15.6	1.01	1.02	1.03	0.74	1.00
West Yorkshire Conurbation	15.1	15.1	0.98	0.98	1.02	0.83	1.12
Remainder of East and West					104	0.68	001
Ridings	15.8	16-1	1.03	1.05	1.04	0.08	0.91
North Western	15.8	15.8	1.03	1.03	0.99	0.76	1.03
South East Lancashire Con-	OF STREET	Control Control	- do-	75.000		0.00	Person
urbation	15.5	15.0	1.01	0.98	1.01	0.83	1.12
Merseyside Conurbation	18.8	18.4	1.23	1.20	0.92	0.93	1.26
Remainder of North Western	14.5	14.9	0.95	0.98	1.00	0.00	0.81
North Midland	15.8	16.1	1.03	1.05	1.05	0.76	1.03
Midland	16.0	15.9	1.05	1.04	1.03	0.71	0.96
West Midland Conurbation	16.0	15.6	1.05	1.02	1.02	0.69	0.94
Remainder of Midland	16.1	16.4	1.05	1.07	1.03	0.72	0.97
Eastern	15.1	15.7	0.99	1.02	1.02	0-77	1.03
T 1 15 di Fratana	14.1	13.4	0.92	0.87	0.97	0.75	1.02
London and South Eastern	14.1	13.0	0.92	0.85	0.97	0.77	1.04
Remainder of South Eastern	13.8	14.7	0.90	0.96	0.97	0.71	0.96
	15.3	16.1	1.00	1.05	1.00	0.85	1.15
Southern	2207864		- MOINE		100	0.70	0.07
South Western	14.8	15.6	0.97	1.02	1.00	0.72	0.97
Wales	16.0	16.5	1.04	1.07	0.99	0.62	0.84
Wales I	16.3	16.6	1.06	1.08	1.01	0.58	0.78
Wales II	15.3	16.4	1.00	1.07	0.94	0.73	0.98
Density Aggregates: Conurbations	15.2	14.4	0.99	0.94	0.98	0.78	1.06
Areas outside the Conurba- tions: Urban areas with popula-	150	15.0	1.02	1.03	1.01	0-83	1-11
tions of 100,000 and over Urban areas with popula-	15.8	15.8	1.03	1.03	1.01	0.83	1-11
tions of 50,000 and under 100,000	15.3	15.6	1.00	1.02	1.01	0.80	1.08
Urban areas with popula- tions under 50,000	15.3	15.8	1.00	1.03	1.01	0.66	0.89
Rural Areas	15.3	16.5	1.00	1.08	1.01	0.66	0.89

Table XXI.—Ranking Comparison of Birth Rates in Regions, Conurbations and Density Aggregates, 1952*

henimaye wienganel a minani				1 200	All Li	ve Births					
Area	SHILLST SHILLST ST. DES	ilaan oine	isedia Sib	and An	Crude	Adjusted					
Conurbations and Remainders of Regions											
Tyneside Conurbation Remainder of Northern Region	6	970190 13 030	1 12 W	10.19	3 2	3 2					
West Yorkshire Conurbation Remainder of East and West Ridings	0		om a	ne hou	13 8	13 8½					
South-East Lancashire Conurbation Merseyside Conurbation Remainder of North Western Region	01 1 1··01		lumd ed - Fr	00i	9 1 15	14 1 15					
North Midland Region	10.3	rscrysic	M.ot	U 10. est	7	7					
West Midland Conurbation Remainder of Midland Region	di.io		enten Deveng Arman	ores de	6 5	12 5½					
Eastern Region	19.6.17	winds	id.as	ner are	12	10					
Greater London Remainder of South Eastern Region	Sie	olien	in and	sortege	16 17	17 16					
Southern Region	L IO	nousii	T DOTS	B CONV	10	81/2					
South Western Region	bos	ighost	d sitt	adiya	14	11					
Vales, Region I Vales, Region II	onios	e iii e	edin/	201	4 11	4 5½					
the Microscyslae Congression and Trate is associated with a lov	ensity	y Aggre	gates	Ideasin Market	ash mast La	on, the Son					
Conurbations	2.030	yacmi	izalii	201.00	5 4875	5 A					
ureas outside conurbations: Urban with populations 100,000 or of Urban with populations 50,000 and Urban with populations under 50,000 Rural	under	r 100,00	0	odi ni	1 4 2 3	3 4 2					

^{*} In accordance with the usual convention, ties are given the mean of the ranks in question; thus where in the Adjusted column two areas have equal rates which would rank them both fifth, they are given the rank $5\frac{1}{2}$ (the mean of 5 and 6) and the next area is ranked 7.

Comparisons of the crude rates between different areas are not strictly valid, since they take no account of the varying sex-age composition of the population of the different areas. To overcome this difficulty in the case of all live births an approximate adjustment may be made by multiplying the rates by the areal comparability factors (A.C.F.s) introduced in 1949 and described in the Civil Text volume for 1946-50. They are shown in Tables 12 and E. The nature of this correction has to be kept in mind in interpreting the adjusted rates. The A.C.F. simply allows for the varying proportion of women of child-bearing

age in the aggregate local population, but not for any other factors, e.g. the proportion of these women who are married. Adjustment for the latter is required if the object is to compare the fertility levels of married women in different areas; on the other hand if the object is to compare the birth increment to local populations, the proportion married is separately examined (inter alia) as a possible source of birth rate variation after such variation (adjusted for age and sex) has been ascertained. For this purpose Table XX includes a column showing the ratio of the proportion married among females aged 15-44 to the national proportion at the 1951 Census.

All Live Births.—The Merseyside Conurbation has the highest rates among the regions, both crude and adjusted, while Greater London and the Remainder of the South Eastern Region have the lowest. But the relatively low crude rate of Wales II (North and Central Wales) and the relatively high one of the West Midland Conurbation are both due to the peculiar sex-age structure of their populations; adjustment raises the ranking of the former from 11 to $5\frac{1}{2}$ * and lowers that of the latter from 6 to 12. Similarly the ranking for the South-East Lancashire Conurbation is reduced from 9 to 14 after adjustment, and that for the South West Region is raised from 14 to 11. No other large differences are affected by sex-age adjustment. It will be seen from Table XX that neither the high (adjusted) birth rates of the Merseyside Conurbation, the Northern Region and Wales nor the low birth rates in Greater London are due to abnormal marriage incidence since the proportion of the female population aged 15-44 who are married is not significantly different from that of England and Wales as a whole. In many other areas high marriage proportions do account for the excess of the birth rate above the national figure.

Among density aggregates the crude rate is highest for the urban areas (outside conurbations) with a population of 100,000 or more, and lowest for the conurbations; but the adjusted rates are roughly in reverse order of urbanisation, the rural districts having the highest and the conurbations the lowest rate. Differences in married proportions do not account for this gradient.

Illegitimate Live Births.—Among the regions Wales I still has the lowest illegitimacy rate. High rates were experienced in the West Yorkshire Conurbation, the South East Lancashire Conurbation, the Merseyside Conurbation and the Southern Region. In Merseyside the high rate is associated with a low proportion married in the total population.

Among density aggregates illegitimacy was higher in the conurbations and large towns and lower in the small towns and rural areas.

Stillbirths

The registration of stillbirths in England and Wales began on 1st July, 1927, when the Births and Deaths Registration Act, 1926, came into operation. The Statistical Reviews, Part II, show numbers of stillbirths in England and Wales as a whole annually by sex and legitimacy (Table B), and quarterly in total (Table D), from 1927. Table E1 gives annual totals of stillbirths for the main regions, density aggregates, metropolitan and county boroughs and administrative counties, and from 1949 Table E gives the same information for all county districts.

Under the Population (Statistics) Act, 1938, additional information has been collected at the registration of births, including stillbirths, and detailed tabulations of stillbirths by legitimacy and mother's age appear in the Fertility Analyses of the Annual Reviews, Part II.

The secular trend of stillbirth rates and their geographical variation can be seen from Table LIII on page 100 and from Table LIV on page 101. The broad picture is that the stillbirth rate has remained fairly stable since 1949, the figures for the individual years 1949-52 being 22.7, 22.6, 23.0, 22.7 (per thousand total live and stillbirths). The effects of multiple maternities, age of mother and birth order were amply discussed in the Civil Text for 1946-50 pp. 141-144 where it was shown that the risk is much higher in multiple than in single births (especially at the younger ages of mother where the single birth risks are lower); is higher in male than in female births; increases with age of mother except at the youngest ages; and independently of age it varies with parity being highest at first births, and lower at the second than at any other higher parity birth. Treatment of such aspects as these requires the provision of data for several years in order that the numbers should be sufficiently large to justify analysis. The statistics for 1951 and 1952 do not increase the available data to an extent justifying a fresh analysis and a few years must elapse before these topics can be profitably discussed again.

^{*} Wales II and the remainder of the Midland Region tie for 5th and 6th place.

MARRIAGES

During 1952 there were 349,308 marriages registered in England and Wales. This compares with 360,624 marriages in 1951, and 358,490 in 1950. As a result of the special influences of the war of 1939-45, the annual average number of marriages in the period 1939-49 was 384,039. Before the war the annual marriages had been rising from an average level of about 301,000 in 1921-25 to 326,000 in 1931-35 and in 1938 reached a figure of 361,768.

In relation to the total population, of all ages and marital conditions, the experience of 1952 represents a rate of 15.8 persons married per 1,000 population compared with 16.4 in 1951, 18.1 in 1939-49, 17.6 in 1938 and 17.5 in 1937. The numbers of marriages and rates per 1,000 population for calendar years are given in serial form in Tables B and C of Part II and in Table D for calendar quarters. The figures for each year from 1936 to 1952 have been extracted from these tables and are shown in Table XXII, from which it may be seen that in the post-war period, a peak was reached in 1947 with a rate of 18.6 persons

Table XXII.—Marriages and Marriage Rates, 1936 to 1952, England and Wales

			er of M			Persons married per 1,000 population (in the form of annual rates)				
	Year	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	Year	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
1936	355	50	101	115	89	17·4	9·8	19·8	22·5	17·3
1937*	359	71	80	121	87	17·5	14·0	15·7	23·5	16·8
1938	362	52	102	117	91	17·6	10·3	19·9	22·4	17·5
1939-45*	381	75	99	110	97	18·1	14·6	18·8	20·7	18·3
1946	386	78	101	110	96	18.0	14·8	19·0	20·4	17·9
1947	401	75	109	119	97	18.6	14·2	20·3	22·0	18·0
1948*	397	95	93	123	85	18.2	17·6	17·2	22·5	15·6
1949	375	82	96	114	83	17.1	15·1	17·5	20·7	15·1
1950	358	87	81	115	76	16.3	16·0	14·7	20·7	13·7
1951*	361	110	66	111	73	16.4	20·2	12·1	20·1	13·2
1952	349	107	69	103	70	15.8	19·4	12·7	18·6	12·6

^{*} In years so marked, Easter fell in the first quarter. During the years 1939 to 1945, Easter fell in the first quarter in 1940 only.

married per 1,000 population after which the rate declined to 16·3 in 1950. The rate of 16·4 for 1951 was not significantly different from that of 1950, but the figure of 15·8 for 1952 represents an appreciable further reduction.

A high incidence of marriage extending over a fairly long period embracing the war years has tended to deplete the non-married component of the population. It is to the latter—the population available for marriage—that marriages should be related and in Table XXIII a comparison is made between marriage rates based on the total population and on the non-married population aged 15 and over of all ages extracted from Table C of Part II.

Table XXIII.—Marriage Rates per 1,000 Population of all ages and per 1,000 non-married population aged 15 and over by sex, 1938, 1939-49, 1950 to 1952, England and Wales

	Per 1,	000 Population	Per 1,000 Non-married Population aged 15 and over						
Period	Ratio to 1938			Males	Females				
to onse	Rate	rate taken as 100	Rate	Ratio to 1938 rate taken as 100	Rate	Ratio to 1938 rate taken as 100			
1938 1939-49* 1950 1951 1952	17·6 18·1 16·3 16·4 15·8	100 103 93 93 90	61·2 68·8 66·1 69·2 67·6	100 112 108 113 110	47·8 53·0 51·7 52·1 50·9	100 111 108 109			

^{*} Annual averages

The marriage rate in 1952 per 1,000 population of all ages was 3 per cent below that of 1951 and 10 per cent below that of 1938. In contrast, though the rate in 1952 when related to the marriageable population was for males 3 per cent below that of 1951, it was still 10 per cent above that of 1938; for females it was 3 per cent below that of 1951 but still 6 per cent above that of 1938. It was suggested in the Review for 1951 that some decline from the high rates which had been maintained for so prolonged a period was to be expected, and such a decline appears to have begun in 1952.

Marriage Analyses by Sex, Age, etc.

The marriage rates so far considered have taken no account of the ages at which the marriages took place nor of the prior marital condition of those who were married. Estimates of the population by sex, age and marital condition have been made annually and the marriages by single years of age for each sex and condition are given in Table G of successive Parts II. Marriage rates for each sex and age, distinguishing first marriages from remarriages, are shown in Table XXIV.

From this table it may be seen that the changes in marriage rates (per 1,000 at all ages over 15) from 1950 to 1952, as shown in Table XXIII, do not apply equally at each age and for each marital condition. Following the heavy incidence of divorce in 1947, remarriage rates at the younger ages soared to a peak in 1947-48. They have since generally declined toward a more stable level. Too much notice should not be taken of the remarriage rates at ages below 35 where the numbers at risk are small and sharp fluctuations are liable to occur. A more reliable guide here is provided by the rate for all ages over 15 (column 8 of the table). First marriage rates have declined in 1952 more for bachelors than for spinsters just as previously they had risen less for bachelors than for spinsters; a reflection of the increasing ratio of males to females in the marriageable population.

The persistently high marriage incidence of recent years has implied a continuing increase in the proportion married. As the increases in marriages were concentrated at the lower ages a further lowering of the average age at first marriage must accompany the depletion of the non-married, for the age structure of this component of the population must become more youthful as older members pass into the married population. This can be seen more clearly from Table XXV. In fact the mean age at first marriage fell for bachelors (with spinsters) from a peak of 27.74 in 1947 to 27.20 in 1952 and for spinsters (with bachelors) from 24.84 in 1947 to 24.42 in 1952.

A summary of the changes in marriage rates in the various age groups is shown in column (9) of Table XXIV in the form of a comparison of the crude rate, for all ages combined, with that of 1938 and in column (11) as a similar but age standardised comparison.

Table XXIV.—Annual Marriage Rates per 1,000 Bachelors, Widowers and Divorced Men, Spinsters and Widows and Divorced Women respectively, at each of several age periods, 1931, 1938, 1939-1949, 1950 to 1952, England and Wales

Year	An	nual ma		ate per group	1,000 in	each	Marriage rate per 1,000 population over 15 in	Ratio to corresponding rate for 1938 taken	resulted had the 1938 age	Ratio of actual marriage rate (col. 8) to rate in
	15-	20-	25-	35-	45-	55 and over	each class	as 1,000	rates been in operation	previous column (10)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
						BACI	HELORS			
1931 1938	3·2 3·2	72·6 87·0	141·3 160·6	49·8 57·0	16·3 18·5	5·5 4·8	56·0 64·8	1,000	65·0 64·8	862 1,000
1939–49	6.5	112-3	160-0	62.2	21.0	5.1	71.4	1,102	63-1	1,132
1950 1951 1952	5·6 6·2 5·9	113·8 125·7 124·3	148·2 152·1 149·5	51·6 52·3 49·9	19·5 19·7 19·0	4·9 5·3 5·0	67·6 71·4 69·5	1,043 1,102 1,073	62·7 62·3 61·7	1,078 1,146 1,126
				WII	DOWER	RS ANI	DIVORCED	MEN		
1931 1938	=	131·7 153·6	185·9 219·8	133·5 152·6	67·3 79·1	15·0 15·9	35·9 38·1	942 1,000	40·6 38·1	1,000
1939-49	_	187-9	341.5	207.6	105.0	17-6	49.5	1,299	37.8	1,310
1950 1951 1952		431·0 320·0 153·0	415·7 385·7 369·2	242·5 231·8 226·3	118·6 119·7 121·9	18·1 19·3 19·6	58·2 57·4 57·4	1,528 1,507 1,507	39·2 39·2 39·6	1,485 1,464 1,449
	00 1					SPIN	STERS			
1931 1938	17·0 22·6	106·4 147·9	96·6 117·9	21.3	7·8 8·6	2.2	51·6 61·4	840 1,000	67·2 61·4	768 1,000
1939–49	36.7	190-9	118.7	29.0	10.2	2.0	69.5	1,132	56.3	1,234
1950 1951 1952	39·3 41·3 40·6	208·9 219·6 221·2	123·7 125·3 123·0	29·2 30·3 29·3	10·3 10·4 10·5	2·1 2·2 2·1	69·4 71·5 70·1	1,130 1,164 1,142	52·1 51·5 50·6	1,332 1,388 1,385
				WID	ows a	ND D	IVORCED WO	OMEN		
1931 1938	_	121·9 197·1	107·0 131·2	36·5 50·1	14·1 14·7	2·2 2·5	9·8 10·2	961 1,000	11·9 10·2	824 1,000
1939–49	d - 8	277-6	199-5	70.6	21.3	2.7	15.3	1,500	10.7	1,430
1950 1951 1952	8 <u>Tin</u>	336·8 328·5 441·3	229·3 222·2 236·3	83·6 86·4 87·3	27·2 27·5 29·9	2·9 3·0 3·0	18·1 16·9 17·0	1,775 1,657 1,667	11·1 10·3 9·9	1,631 1,641 1,717

The 1952 crude first marriage rates for bachelors and spinsters were still above those of 1938, the excess being 7·3 per cent and 14·2 per cent respectively. The age standardised comparison, however, indicates greater increases to 1951 and a smaller movement between 1951 and 1952. The age standardised rate in 1952 for bachelors was 12.6 per cent above 1938 and for spinsters the excess was 38·5 per cent (i.e. only slightly less than in 1951). This greater increase in the age standardised rates arises from a relative lack of young bachelors and spinsters in the population in recent years as compared with 1938 resulting from their depletion by the high bachelor and spinster marriage rates of the intervening period, despite continual replenishment by the new generations attaining marriageable age. This feature is more marked for spinsters than for bachelors.

Table XXV.—Ratio of Marriage Rates for Bachelors, Widowers and Divorced Men, Spinsters and Widows and Divorced Women, to those of 1938 taken as 100, by age, 1931, 1939-1949, 1950 to 1952, England and Wales

15-	20-	25-	35-	45-	55 and over	All Ages*	Period	15-	20-†	25-	35-	45-	55 and over	All Ages*
1920	16.15	BA	CHELO	ORS			is these	V	vidow	ERS A	ND DI	VORC	ED MEI	N
100	83 100	88 100	87 100	88 100	115	86 100	1931 1938	=	=	85	87	85	94	88
203	129	100	109	114	106	113	1939-49	-		155	136	133	111	131
175 194 184	131 144 143	92 95 93	91 92 88	105 106 103	102 110 104	108 115 113	1950 1951 1952	=	三	189 175 168	159 152 148	150 151 154	114 121 123	149 146 145
iles		SI	PINSTE	RS			calubé.	V	vidow	S ANI	DIVO	RCED	WOME	EN
75 100	72 100	82 100	97 100	91 100	110 100	77	1931 1938	=	62 100	82 100	73 100	96 100	88 100	82 100
162	129	101	132	119	100	123	1939-49	-	141	152	141	145	108	143
174 183 180	141 148 150	105 106 104	133 138 133	120 121 122	105 110 105	133 139 139	1950 1951 1952	Ξ	171 167 224	175 169 180	167 172 174	185 187 203	116 120 120	163 164 172

^{*} Age Standardised.

Remarriage rates of the widowed and divorced taken together are weighted means of the separate rates for widowed and divorced, the weighting depending upon the relative numbers of each class. As a consequence of the substantial increase in the incidence of divorce since the war, the remarriage rates of the divorced are exerting a much stronger influence upon the combined rate, particularly at the younger ages. Since the remarriage rates of the divorced are also several times greater than those of the widowed, this is leading to a considerable inflation of remarriage rates of the divorced and widowed when combined. This is the significance to be attached to the substantial increase in these rates since 1938; the crude comparison gives increases in 1952 of 50·7 per cent for widowers and divorced men and 66·7 per cent for widows and divorced women; the age standardised comparison gives increases of 44·9 per cent for widowers and divorced men and 71·7 per cent for widows and divorced women between 1938 and 1952.

Marriages of Minors

Of the total marriages registered in 1952, those of 21,447 males and 90,363 females related to minors. These figures compare with 22,401 males and 92,422 females in 1951 and 12,164 males and 59,268 females in 1938. There was a normal excess of females in 1952; they outnumbered males by 4·2 to 1, compared with 4·1 to 1 in 1951 and 4·9 to 1 in 1938. The increase in the marriage of male minors during the war lowered the proportion over the period 1939-49 to 3·6 to 1.

The bridegroom was a minor in 6·1 per cent of all marriages in 1952, slightly lower than the proportion of 6·2 per cent in 1951 but well above the 1938 figure of 3·4 per cent. In the period 1939-49 the proportion was 6·8 per cent. The corresponding proportions for brides were: 1952 25·9 per cent; 1951 25·6 per cent; 1938 16·4 per cent; and 1939-49 24·2 per cent. For both bridegrooms and brides the changes in the proportions between 1951 and 1952 were relatively small

[†] Based on small numbers.

These proportions and also marriage rates for minors are given in Table XXVI, which shows, in columns (6) and (7), that marriage rates of minors in 1952 were 115 per cent and 94 per cent above those of 1938 for males and females respectively. These are much greater increases in marriage rates than those associated with adult ages during the same period.

Table XXVI.—Marriages of Minors, Proportion to all Marriages, Marriage Rates, and the Ratio of these Rates to that for 1938. 1931, 1938, 1939-49, 1950 to 1952, England and Wales

Year	per 1,000	of Minors marriages l ages	1,000 no	rates per n-married aged 15-20	Ratio of Marriage rates in Cols. (4) and (5) to corresponding rate in 1938 taken as 100		
	Males	Females	Males	Females	Males	Females	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
1931 1938	43·5 33·6	158·5 163·8	6·7 6·0	24·8 30·5	112 100	81 100	
1939-1949	68:1	242.1	13.9	54.2	232	178	
1950 1951 1952	56·9 62·1 61·4	247·2 256·3 258·7	12·2 13·4 12·9	58·5 60·2 59·3	203 223 215	192 197 194	

Marriage Incidence at Reproductive Ages

In relation to population growth the special interest of the trend of marriage incidence lies in its influence on fertility. The Population (Statistics) Act of 1938 enabled the births of all children after 30th June, 1938 to be related to the ages and dates of marriage of their mothers. In the Text of the Review for 1938-39, the first dealing with the new records, a brief review was made of the nature of the influence of marriage incidence upon fertility and of the changes that had taken place prior to 1939, both in the female marriage rates and in the proportion of married females in the community, at different ages within the reproductive age period. In that Text, the numbers of married and non-married women between the ages of 15 and 49, the proportions married, the numbers of women marrying and their relation to the non-married population, were tabulated for individual years from 1911, together with earlier records at decennial census periods from 1851, the first census year at which the marital conditions of the population were distinguished. In the Civil Text for 1940-1945 these records for females were continued up to the end of 1945 and at the same time similar records were added for males, in decennial form between 1851 and 1931, and thereafter in individual years until 1945. In the Civil Text for 1946-1950 records for both sexes for those years were included; they were continued in Appendix B of the 1951 Text, and on page 254 of this volume similar records for 1952 are provided.

Marriage Rates.—It was customary before 1946 to base the main discussion of the marriage trends at the reproductive ages on all marriages, whether first or remarriage. The fact of primary interest, however, is the establishment of additional marriages, that is to say first marriages, since remarriages do no more than make good, to some extent, the marriages which are broken by death or divorce. The earlier practice, in which remarriages were included, was justified in that at the reproductive ages, both the changes from year to year and the actual marriage rates for the whole non-married female population were negligibly different from those for spinsters alone.

The rising incidence of divorce during the war and the abnormally high incidence in post-war years has increased the distortion imparted by the inclusion of remarriages, to a greater extent than can be tolerated. In Table XXVII are set out All Marriage rates for 1911, 1931 and 1938 and First Marriage rates for these years and single years thereafter to 1952, from which the distortion prior to 1938 may be judged. Diagram 1 displays a continuous record of age marriage rates from 1911 to 1952, the rates shown from 1911 to 1937 being based on All Marriages and those from 1938 on First Marriages.

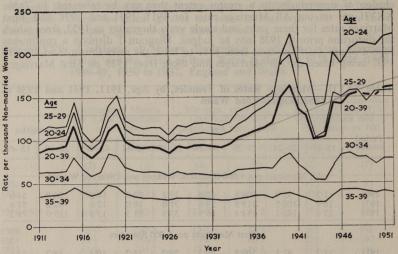
Table XXVII.—Marriage Rates of Females, by Age, 1911, 1931 and 1938 to 1952, England and Wales

Period	1		The same of the sa	Age			11/	Aggre	egates
renod	15–19	20–24	25–29	30–34	35–39	40-44	45–49	20–39	15-49
	All	Marriages	per 1,00	0 Spinste	rs, Wido	ws and I	Divorced	Women	100
1911	11.2	95.9	109.8	62.6	35.5	22.0	14.8	86.9	54.0
1931 1938	16.9	106·5 148·1	119·8 154·4	59.6	31·0 37·9	18.0	12.6	92.8	57.8
1730	220	1401	1344	1 0,7 9	313	213	1 13 0	1190	/1 2
	Plane		First M	Iarriages	per 1,00	0 Spinste	rs		
1911	11.2	97.1	109.8	59.2	29.2	16.2	10.4	88.7	54.6
1931	17.1	106.8	119.1	57.2	27.0	14.5	9.6	93.6	59:
1938	22.6	147.9	154.0	67.2	33.1	16.8	10.6	119.7	72.
1939	32.0	197.6	188.7	78.4	37.2	18.6	11.5	150.8	90:
1940	38.4	222.8	198.8	84.7	39.1	20.9	12.0	164.8	100-4
1941	36.3	188.9	155.1	70.3	35.1	20.6	12.1	136.5	85.
1942	38.9	187.4	133.2	63.0	33.7	20.2	12.3	129.8	82
1943 1944	34.2	141·2 143·1	101.7	54.0	28.1	17.6	11.7	100.6	65.
1944	40.0	200.6	155.6	71.4	35.4	20.2	11.3	104·3 144·4	89.
1943	400	200 0	133 0	/14	33 4	202	130	144 4	09'
1946	33.9	189.0	150.7	84.5	42.3	22.9	14.4	142.5	86.4
1947	36.7	205.5	157.7	85.1	42.5	22.8	13.6	152.1	91.
1948	39.4	212.5	158.1	81.3	42.7	22.6	13.4	156.0	92.
1949	40.5	212.0	145.6	81.8	40.4	21.3	13.1	153.9	91.
939-49*	36.7	191.0	150.5	73.5	36.8	20.4	12.6	139.6	85.
1950	39.3	208.9	156.0	72.9	38.7	20.3	12.7	152.5	89.4
1951	41.3	219.6	156.4	76.6	39.9	21.3	12.8	159.7	93:
1952	40.6	221.2	155.7	74.8	38.8	20.7	13.1	160.2	92.

^{*} Annual Averages

Before 1911, when the diagram commences, a long and more or less steady decline brought the rates down from 1873, when the highest rate in the 19th century was recorded, to 1909, when the lowest rate up to that time was recorded. Rates rose slightly from 1909 to 1914, when the trend became obscure owing to the wide fluctuations associated with the First World War. After the war no clear trend was observed until 1932, when a steady improvement began and was continued until 1938. At this point judging by the fragmentary evidence available, a full recovery had been made to the 1873 peak. The fluctuations of war again intervened to obscure the trend but, as may be seen from Table XXVII, the annual average rates over the disturbed period of 1939-49 were, at the aggregated ages, substantially in excess of those for 1938, indeed for almost every individual age group the 1939-49 average rates exceed those for 1938.

Diagram 1.—Marriage Rates* of Women, by age, 1911 to 1952, England and Wales (See Text)



* 1911-37: All marriages per 1,000 spinsters, widows and divorced women. 1938-52: First marriages per 1,000 spinsters.

Generally the 1950 rates, whilst above the 1939-49 averages, were below those of 1949, indicating that, although very high, the rates were still declining from the post-war peak. The 1951 rates were slightly above those of 1950, suggesting that this decline had been halted. In 1952 the rates increased further at ages 20-24 but at ages 15-19 and at ages above 25 the rates were reduced; in consequence the aggregate rate for 20-39 increased while that for 15-49 declined.

The marriage history of recent years is remarkable in that for nearly 15 years marriage rates on average have been maintained above the highest level ever reached in the 19th century, even for a single year. This high maintenance of high marriage rates over a long period produces important changes. Under such circumstances the population is depleted more and more of its non-married element and those non-married persons whose inclinations or health do not favour marriage form an increasing proportion of the non-married group as a whole i.e., all those nominally at risk. Even the maintenance of constant marriage rates by those more appropriately regarded as at risk would not in these circumstances prevent a decline in the rates calculated on the basis of all non-married of marriageable age. For this reason a decline in nominal marriage rates has been expected.

During the nineteenth century the marriage rate for the age group 20-24 always exceeded that for the next older group 25-29. In 1901 this position was reversed, the older group recording a higher rate for the first time. Diagram 1 shows that the younger women regained their earlier lead in 1939 and have retained it. As the majority of brides' ages lie between 20 and 30, changes in the relative marriage incidence in the two quinary age groups within this range, viz. 20-24 and 25-29, are indications of changes in the average age at marriage, which has an influence on the ultimate size of families. After 1939 the younger age group increased its lead over the older group, and a wide gap opened up between them so rapidly that some part must be attributed to abnormal conditions associated with the war. However, at least one of the

conditions which has enabled girls to marry earlier—the changing relationships between the numbers of males and females—may be assumed to be of a persistent nature, and this probably provides an explanation of the fact that the gap is still widening.

Factors Influencing Marriage.—The nature and the probable future course of factors leading to the rise in marriage rates were discussed in the Civil Text Volumes of 1940-1945 on pages 38-40, and of 1946-1950 on pages 40-42, and in the 1951 Text on pages 69 and 70. It has been shown that, while the ratio of males to females at ages 15-44 in the total population has been rising continuously since 1921, it has risen still more in the non-married section of the population at these ages. The following statement, based on census populations, shows the changes in sex ratio since 1871.

Males per 1,000 Females :-

	1871	1901	1911	1921	1931	1951
Total population, 15–44 Non-married population, 15–44	067	923 950	926 959	876 875	915 945	969 1,120

The abnormally low ratio in 1921 and sharp rise since that year are the striking features of this statement. It will be noted that in 1951 among the non-married aged 15-44, males exceeded females for the first time, even though the sex ratio is based on census populations which exclude the predominantly male armed forces stationed abroad.

The main factors influencing these changes in the sex ratio are generally understood. The proportion of males to females at birth has increased (1911-15, 1,038 per thousand; 1931-35, 1,051 per thousand; 1946-50, 1,061 per thousand) and improvements in infant and child mortality have raised the ratio of male to female survivors. In the early years of the century there was heavy emigration with a male preponderance, and the losses in the First World War fell particularly heavily on young males. On the other hand such male losses as there were in the Second World War were in part offset by the heavy post war emigration of the wives of Allied Servicemen. Apart from migration and special factors associated with war, it seems likely that the factors producing the current high sex ratio will persist and a further increase in the ratio may be expected.

The numerical superiority of males over females in non-married persons aged 15-44 is not spread evenly over all ages, but is particularly concentrated at the younger ages where marriage rates are highest, as the following statement shows:

Non-married males per 1,000 non-married females:-

on its section of	1911	1931	1951
Age 20–24	1,016	1,097	1,395
,, 25–34	968	960	1,350

Thus, for females, there is certainly no lack of partners to choose from at the younger ages and, to the extent that this factor may influence marriage rates, there is a prospect of the maintenance of high proportions married amongst the female population.

Total Married Women of Reproductive Age.—Illegitimacy being comparatively low in this country the fertility of the community is determined largely by the total number of married women of reproductive age in the population, that is by the survivors of women who married at any time in the preceding 35 years and who have not yet passed out of the child-bearing ages. New marriages will continually replenish this number. The annual addition of new marriages in relation to the total married population represents only a small fraction, of the order of 5 per cent, so that short term changes in the marriage rates will have a correspondingly reduced effect upon the total proportions of married women in the population. The proportions of married women are shown by quinary agegroups up to age 50 for selected years in Table XXVIII.

Table XXVIII.—Married Women per 1,000 total Female Population at each Age and Ratio of proportion to that of 1938 taken as 100. 1911, 1931, 1938 and 1946 to 1952, England and Wales

9251				Age				Aggre	gates
Year	15–19	20–24	25–29	30–34	35–39	40-44	45–49	20–39	15-49
		М	arried Wo	omen per	1,000 tota	l Female	Populatio	n	
1911	12	242	558	711	752	755	729	552	502
1931	18	257	587	733	755	749	733	572	529
1938	23	328	643	733	771	768	736	623	566
1946	35	436	696	800	797	784	762	686	626
1947	33	445	714	802	807	785	763	697	635
1948	38	457	730	807	816	791	763	707	643
1949	41	467	736	823	822	795	768	716	651
1950	40	473	762	814	826	801	770	724	657
1951	42	475	769	828	832	812	780	731	666
1952	42	489	778	835	838	819	784	741	673
	46.04	F	Ratio of p	roportion	to that of	1938 tak	en as 100		
1911	52	74	87	97	98	98	99	89	89
1931	78	78	91	100	98	98	100	92	94
1938	100	100	100	100	100	100	100	100	100
1946	152	133	108	109	103	102	104	110	111
1947	143	136	111	109	105	102	104	112	112
1948	165	139	114	110	106	103	104	113	114
1949	178	142	114	112	107	104	104	115	115
1950	174	144	119	111	107	104	105	116	116
1951	183	145	120	113	108	106	106	117	118
1952	183	149	121	114	109	107	107	119	119

Throughout the period covered by the table the proportions have increased at each age group and these increases have been outstanding at ages under 25. The proportion in 1952 exceeded that of 1938 by no less than 83 per cent at age 15-19 and 49 per cent at age 20-24. The increase of 21 per cent at age 25-29 is less striking but hardly less significant, applying as it does to larger proportions married. At the younger ages the major part of the increase occurred between 1938 and 1946, and though an upward trend continues the pace is very much diminished.

The remarkable rise in the proportions at the younger ages and the much more modest increases at the older ages bring into relief two important changes—more women are marrying, and they are marrying at younger ages.

In any particular year the proportions married increase with advancing age, at first very rapidly and then more slowly, to a maximum close to age 35. They then decline slowly as new marriages are increasingly offset by widowhoods but the total reduction in the proportion up to age 50 is relatively small.

The last two columns of Table XXVIII show the proportion of married women in the reproductive age group 15-49 as a whole and in the more critical group 20-39, among whom 90 per cent of births occur. The proportions represent fractions of the reproductive years of all women which fall within married life. From 1911 to 1931 this proportion rose slightly from 50-2 to 52-9 and it rose more rapidly between 1932 and 1938 to 56-6. By 1946 it had reached 62-6 and by 1952 67-3. In the age group 20-39, the proportion has risen from 55-2 in 1911 to 74-1 in 1952.

These increases have been exaggerated by the ageing of the population in the 15-49 group since 1911 which has tended to increase the relative number of women at the older ages within the group, i.e. where the proportion married is greater. To remove this distortion a marriage index for the year can be calculated by expressing the actual number of married as a ratio to the number which would have emerged as married, if the populations in the component quinary agegroups had been subject to standard proportions married in those age-groups, viz: those for 1911. The difference of this ratio from unity thus indicates changes in the proportions married apart from that due to ageing.

Marriage indices standardised on 1911 proportions married within successive quinary age-groups from 15 to 49, with the corresponding unstandardised figures, are shown below:—

	1911	1931	1938	1946	1947	1948	1949	1950	1951	1952
Standardised	1.000	1·022	1·067	1·146	1·154	1·168	1·180	1·188	1·200	1·212
Unstandardised		1·054	1·127	1·247	1·265	1·281	1·297	1·309	1·327	1·341

The correction for ageing shows that the true increase in the proportion married among the women aged 15-49 between 1911 and 1952 was 21-2 per cent instead of the 34-1 per cent suggested by the crude proportions, over one third of the latter increase being due to the ageing of the population and unrelated to the incidence of marriage. If comparison is confined to the narrower age group 20-39 where clearly the effect of ageing is correspondingly restricted standardisation only reduces the excess of 1952 over 1911 from 34-2 per cent to 29-1 per cent.

The fact that such a high degree of marriage has been attained is important. There is no sign yet of any recession in the proportions. On the contrary it would not be necessary for rates of new marriages to be as high as in the years immediately preceding 1951 to achieve further increases in the proportion of married women in the population aged 15-49. The marriage rates experienced before the war would not however suffice for this purpose. This may help to put the reductions in some of the specific marriage rates in 1952 in proper perspective.

Seasonal Incidence of Marriage

Table D of Part II, 1952, shows the number of marriages registered in England and Wales and the rates per 1,000 population in each quarter in serial form for decennial periods from 1841 and for each year 1941 to 1952. In the same volume the monthly incidence for marriages is shown for each year 1947 to 1952 in Table N.

Throughout the nineteenth century the highest marriage rates occurred consistently in the December quarter and the lowest in the March quarter. Between the two World Wars a new pattern emerged and almost without exception the two summer quarters became the highest and the two winter quarters the lowest. The March quarter has generally been that of lowest marriage incidence, but the incidence rises and relativity is disturbed when the Easter happens to fall within that quarter.

Since the Second World War, in addition to the temporary shift from the June to March quarters in the years when Easter fell in the March quarter, there has also been a transference of marriages from the June to March quarters of a more permanent and progressive character. The fortuitous disturbance of two March Easters in this short period obscures this trend and an approximate removal of this disturbance is desirable to clarify the picture.

In pre-war years, the last two March Easters occurred in 1932 and 1937. The incidence of marriages in the March and June quarters in these years and in those immediately preceding and succeeding them, expressed as a percentage of one fourth of the annual total of marriages, was as follows:—

Year	March Qtr.	June Qtr.	Year	March Qtr.	June Qtr.
1931	60	109	1936	56	114
1932	81	90 108	1937	79 58	89 113

According to these data, a March Easter leads to a transfer of an average of 22 from the June to the March quarter index. This adjustment has been made to the figures for 1948 and 1951 (when Easter fell in the March quarter), to provide the following set of figures from 1946 to 1952, (again related to a quarterly average of 100). These indices are comparable in the sense that they have been freed from Easter disturbance.

Year	1946	1947	1948	1949	1950	1951	1952
March Quarter June Quarter	81	75	74	87	97	100	122
	105	109	116	102	90	96	80

The possible weakness of the assumption on which the 1948 and 1951 figures have been adjusted, namely that the effect of a March Easter in these years was the same as in 1932 and 1937, must be borne in mind but it is evident that a persisting change has been taking place since 1947 or 1948. The monthly incidence of marriages, available for the years from 1947, throws some further light on this. Account must however be taken of the varying lengths of months by calculating daily averages, and Table XXIX shows daily average of marriages registered in England and Wales in each month and the ratio of the daily average for the month to the daily average for the year from 1947 to 1952.

By comparing 1947 and 1952 for instance, two years in which Easter fell in April, or 1948 and 1951 when Easter fell in March, it may be seen from this table that all the increase in the March quarter is concentrated in the month of March, while the complementary decrease in the June quarter is spread from April to June. This supports the popular explanation of the shift, namely that it is attributable to the method by which the Inland Revenue calculate a wife's allowance in Income Tax assessment. This system favours marriage before, rather than after, the beginning of the financial year (very early in April). This advantage apparently attracts many of those who would otherwise have married early in the financial year and up to as late as June.

Table XXIX.—Comparison of Marriage Incidence by calendar months, 1947 to 1952, England and Wales

		Daily Average number of Marriages in each month							to daily	Average average n as 1,0	e for the	e
	1947	1948	1949	1950	1951	1952	1947	1948	1949	1950	1951	1952
January February March April May May June July August September October November December Year	641 798 1,065 1,387 890 1,332 1,174 1,396 1,325 912 913 1,346	741 711 1,673* 858 857 1,351 1,492 1,140 1,386 911 671 1,196	696 796 1,223 1,308 527 1,332 1,364 1,064 1,304 864 598 1,244	497 773 1,608 1,047 591 1,033 1,204 1,134 1,412 700 563 1,208	464 639 2,493* 475 567 1,152 1,065 1,139 1,432 681 525 1,177	451 787 2,253 743 571 983 1,010 1,213 1,151 659 605 1,006	583 726 969 1,262 810 1,212 1,068 1,270 1,206 830 831 1,225	684 656 1,543* 792 791 1,246 1,376 1,052 1,279 840 619 1,103	677 774 1,190 1,272 513 1,296 1,327 1,035 1,268 840 582 1,210	506 787 1,637 1,066 602 1,052 1,226 1,155 1,438 713 573 1,230	470 647 2,523* 481 574 1,166 1,078 1,153 1,449 531 1,191	473 825 2,362 779 599 1,030 1,059 1,271 1,206 691 634 1,055

^{*} Easter fell in March in 1948 and 1951.

Apart from this feature the influence of Easter and Christmas is also clearly discernible in March (or April) and December. The relative incidence is also naturally high in the holiday months, June to September.

Marriage Incidence in different parts of the Country

The number of marriages and the marriage rates in regions, counties and county boroughs for each year are published in Table F of the successive issues of Part II. Up to 1949 classification was by Geographical Regions and from 1950 by Standard Regions, but Appendix F to Part II for 1946 to 1949 provides an additional tabulation by Standard Regions.

It has frequently been stressed in previous Reviews that the significance of differences in local marriage rates is reduced by the fact that the district in which the marriage is registered is often the district of residence of only one of the parties and sometimes of neither, though this weakness would be less in comparisons between large sections of the country than between small local areas. Another difficulty arises from the fact that marriage rates for local areas were calculated upon civilian populations up to 1949, and upon home populations (that is including the armed forces stationed in the area) from 1950, though in these and other years the parties to the marriage would include members of the armed forces, whether stationed at home or abroad. To minimise distortion from this source, ratios of local rates to the national rate for each year may be considered, as shown in Table XXX.

The attraction of London for marriage has always been reflected in the statistics. In the years immediately preceding the war about $12\frac{1}{2}$ per cent of the total marriages of the country were registered in London, giving it a marriage rate about 25 per cent higher than that of the country as a whole. Since the war the London population has remained much below its pre-war level, so that although only $9\frac{1}{2}$ per cent of all marriages are registered in London, the marriage rate is still about 25 per cent above the national level.

Table XXX shows the ratio of marriage rates in Standard Regions to the national rate in the years from 1947 to 1952.

The unique position of London dependent, as it is in part, upon the attraction of a London wedding for those resident elsewhere is an outstanding feature of the table. The rate in the Eastern region, some 12 to 15 per cent below the national average, is also notable. Other rural regions—Southern, South Western and Wales II—also show low rates, 8, 8 and 11 per cent respectively below the average in 1952. There are no other important differences. It may be seen from

Table XXX.—Ratio of Marriage Rates in Standard Regions of England and Wales to that of the whole country, 1947 to 1952.

Region	Ratio of Regional to National Rate taken as 1,000							Ranking of Ratio					
AGS-07	1947	1948	1949	1950	1951	1952	1947	1948	1949	1950	1951	1952	
England and Wales	1,000	1,000	1,000	1,000	1,000	1,000							
Regional Summary Northern East and West Ridings North Western North Midland Midland Eastern London and South	1,016 1,029 1,015 1,005 967 872	1,018 1,026 1,006 1,013 1,010 874	1,033 1,037 1,017 1,016 1,021 859	1,032 1,024 1,009 1,019 1,021 866	1,031 1,030 1,002 997 1,027 851	1,051 1,025 1,005 994 1,011 852	3 2 4 5 7 11	3 2 7 4 6 11	2 1 6 7 4 11	2 3 6 5 4 11	2 3 5 7 4 11	2 4 6 7 5	
Eastern South Western	1,057 1,280 952 935	1,040 1,247 961 931	1,028 1,225 950 922	1,041 1,237 932 926	1,054 1,253 942 917	1,055 1,253 924 917	1 8 10	8 9	8 9	8 10	8 9	Vorce Voy	
Wales I Wales II	989 945	1,012	1,018 913	999 930	998 915	1,043 894	6 9	5 10	5 10	7 9	6 10	1	

the ranking orders on the right hand side of the table that the regions do tend to maintain their relative positions from year to year.

Buildings in which Marriages may be Solemnized

According to returns made to the Registrar General by diocesan registrars, there were, at the end of 1952, 16,774 Churches and Chapels of the Church of England and the Church in Wales wherein marriages could be solemnized.

The following table shows in respect of other religious bodies the number of places of meeting for religious worship, and the number of such places in which marriages could be solemnized, recorded by the Registrar General at the end of 1952.

Table XXXI.—Buildings* certified as places for Worship and registered for Marriages, 1952, England and Wales

Denomination		ini ini ing i	Buildings certified to the Registrar General as meeting places for Religious Worship	Buildings registered for the solemnization of marriages
Roman Catholics		*** 5	2,460	2,232
Methodist Church			13,207	9,277
Congregationalists			3,627	3,379
Baptists	d. eppi	***	3,604	3,291
Calvinistic Methodists			1,424	1,227
Presbyterians			460	451
Unitarians	001918		194	199
New Church	d die.		60	63 63
Catholic Apostolic Church	A. Jon		50	moon nob 41 I and
Countess of Huntingdon's Connexion			43	39
Salvation Army	9.0.9		1,556	591
Society of Friends	100001		424	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Jews			428	12 MXX total OT
Other Denominations			7,758	2,836
Office Denominations			A CHECKY TO AND THE SE	A102 T X TOTAL TO NO. 1/1/2
All Denominations	e-undi		35,295	23,626

^{*} Of these buildings nearly 1,000 were certified before 1852 as places of meeting for religious worship to some other authority than the Registrar General and therefore are not included in the number so certified to the Registrar General shown above.

Manner of Solemnization

The marriages of 1952 are analysed according to manner of solemnization in Appendix B of Part II, Table 5 of which also gives some comparative figures back to 1844. Similar figures were last given in 1934; it is intended to publish them in future at five-yearly intervals.

Of the 349,308 marriages registered in 1952, 106,777 or 306 per thousand were civil marriages and 242,531 or 694 per thousand were solemnized with religious ceremonies. The proportion of civil marriages has risen steadily since their introduction in 1836. Table XXXII shows that in 1844 it was 26 per thousand and in 1929 ten times as high, 257 per thousand, rising in the next five years by a tenth to 284 per thousand in 1934. In the eighteen years since then the increase has been at a slower rate—by about one-thirteenth to 306 per thousand. The proportion varies between different parts of the country. Among Regions it is highest in the London and South Eastern (370 per thousand) and lowest in the North Western (244 per thousand), among counties it is highest in London (440)* and lowest in Radnorshire (106); in Wales, where the proportion was relatively high in 1934 (377 per thousand, a third higher than for England and Wales combined), it has declined steeply to 291 per thousand.

Table XXXII.—Proportion of Civil Marriages and Distribution of Religious Marriages by Denomination, England and Wales, 1844-1952

			00-0	M sh	Marriages according to Rites of Denominations shown, per 1,000 Marriages with Religious Ceremonies										
	Year	-	Civil per 1,000 Total Marriages	Established Church and Church in Wales	Roman Catholics	Methodists	Congrega- tionalists	Baptists	Other Denominations	Jew					
1844 . 1849 . 1854 . 1859 . 1864 .			26 39 48 65 81	932 903 882 869 851	18 31 51 49 52		4 6 6 8 9:	4 5 0		1 2 2 2 2					
1869 . 1874 . 1879 . 1884 . 1889 .		::	95 105 120 131 139	843 834 822 813 811	45 45 46 50 49		110 118 129 134 135	3 9		2 3 3 3 5					
1894 . 1899 . 1904 . 1909 .			148 150 179 205 241	805 798 782 773 768	49 48 49 53 61		140 147 160 166 162			6 7 9 8 9					
1919 1924 1929 1934 1952			231 238 257 284 306	776 759 756 747 714	67 72 80 91 136	73 79 76 73 69	31 33 31 30 29	25 26 25 25 25 22	21 22 23 25 22	7 9 9 9 8					

The table also shows the distribution of religious marriages among some of the larger denominations. The almost uninterrupted decline in the proportion taking place in the Established Church and the Church in Wales, from 932 per thousand religious marriages in 1844 to 747 per thousand in 1934 and 714 in 1952, is in part simply a reflection of the increase in the numbers of civil ceremonies. But no doubt it is also influenced by changes in the relative strength of

[†] It is not necessary for buildings to be registered for the solemnization of Quaker or Jewish marriages.

^{*} The figure for London, which is about a fifth greater than the next highest, presumably reflects a stronger tendency in the case of civil than in that of religious ceremonies for those resident elsewhere to come to London for their wedding—cf. p. 51.

		Ma	rriages a	ecordin	g to the	Rites	of Deno	minatio	n show	n per 1,0	000 Tota	ıl Marri	ages wi	th Relig	ious Ce	remonie	s
Area	SHP SHP	All Denominations	Established Church and Church in Wales	Roman Catholics	Methodists	Congregationalists	Baptists	Presbyterians	Calvinistic Methodists	Salvation Army	Unitarians	Brethren	Society of Friends	Spiritualists	Other Christian Bodies	Jews	Other Bodies, Unattached
(1)	\$93	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
ENGLAND AND WALES		1,000	714	136	69	29	22	7.4	4.3	1.5	1.2	1.1	0.3	0.3	6.0	7:7	0.3
Regions: Northern East and West Ridings North Western North Midland Midland		1,000 1,000 1,000 1,000 1,000	687 739 607 787 756	161 105 238 69 138	110 108 79 82 61	8·3 22 31 26 19	6·4 10 10 24 12	19 1·7 8·4 3·5 2·8	1·5 0·8	1·8 1·4 1·1 1·8 1·0	0.8 2.3 3.8 0.8 0.7	0·9 0·5 0·7 0·5 0·9	0·2 0·3 0·1 0·3 0·3	0·3 0·3 0·1 0·2 0·4	2·6 5·7 13·1 4·6 5·9	1·2 3·8 5·9 0·3 0·9	0·4 0·1 0·4 0·2 0·2 0·3
Eastern London and South Eastern Southern South Western	3.55	1,000 1,000 1,000 1,000	795 734 796 763	81 148 98 71	51 34 43 99	34 23 31 29	27 19 19 26	1·9 8·3 4·0 1·9	0.2	2·4 1·3 2·1 2·2	0.5	1·7 1·0 1·6 2·7	0·3 0·5 0·6 0·4	0·4 0·3 0·2	4·5 4·1 4·1	25 0·3 0·3	0·3 0·4 —
Wales	· · · · · · · · · · · · · · · · · · ·	1,000 1,000 1,000	544 559 502	85 94 59	65 59 80	96 96 99	108 122 71	24 23 29	66 33 154	1·0 1·3 0·3	2·0 1·3 3·9	1·7 2·3 —	=	0·2 0·3 —	5·9 7·6 1·3	0.8	0.4

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Table XXXIV.—Distribution of Marriages in the Established Church and Church in Wales by Type of Preliminaries, and Proportion of Marriages in Registered Buildings before an Authorised Person by Denomination, England and Wales and Regions, 1952

		Distributi Establishe	ed Churc	ch and	of Ma Churc liminar	h in Wa	in the les by	Propershow	ortion pe vn, sole	er 1,000 mnized	Marriage before a	es of the	Denomi orised l	nation Person
Area		All Types	Special Licence	Licence	Banns	Supt. Registrar's Certificate	Not Stated	All Registered Buildings	Roman Catholics	Methodists	Congregationalists	Baptists	Presbyterians	Other Denominations
ENGLAND AND WALES	1,	,000 0	0.4	84	914	0.5	1.0	420	142	859	636	539	465	338
Regions: Northern East and West Ridings North Western North Midland Midland Eastern London and South Eastern Southern South Western	1, 1, 1, 1, 1, 1,	,000 0 ,000 0 ,000 0 ,000 0 ,000 1 ,000 0	0·2 0·1 0·4 0·1 0·3 1·1 0·2	94 72 10 83 70 84 56 89 09	905 927 889 915 928 911 942 909 888	0·3 0·3 0·5 0·6 3·5 0·1 0·1	0.8 0.9 0.6 1.1 1.3 1.3 0.8 1.4 2.5	361 593 348 671 813 365 277 365 433	14 219 61 379 798 9·1 12 59 3·6	866 927 915 857 907 778 936 781 685	597 713 776 853 798 546 713 660 561	605 702 596 817 822 441 564 622 615	211 564 672 537 556 714 499 302 517	269 508 582 320 525 224 222 179 101
Wales	1,	,000	_ 1	56 42 99	843 858 799	0·2 0·2 0·5	0·6 0·5 1·0	299 356 160		639 744 428	337 414 132	331 380 97	441 547 212	204 307 121

the various denominations. In the second half of the nineteenth century Free Church marriages rose continuously, both as a proportion of religious and of all marriages. More recently, however, it is the Roman Catholic proportion, previously stable at about 5 per cent of religious marriages, which has been rising, and the 18 years 1934-1952 have seen an outstandingly large increase in it of about one-half, from 91 to 136 per thousand. Of the seven denominational groups identified in Table 5 of Appendix B, in Part II, the Roman Catholic Church is the only one during this period to show an increase in the proportion of its marriages to the total including those with civil ceremonies. This increase is unevenly spread over the various parts of the country, being proportionally greater in some of the rural counties to the North-East of London, as well as Buckinghamshire and Cornwall,* and smaller in the big industrial areas such as Lancashire, the West Riding and London.

Tables 1 and 2 of Appendix B also give some guide to the strength of various denominations in different parts of the country (Regions and Counties) to the extent only to which this is very roughly indicated by marriage incidence, though close comparison is, of course, not possible between the smaller numbers subject to much chance fluctuation from one year to another. Table XXXIII summarises the proportions of 15 denominational groups among total religious marriages by Region. The proportions for the Established Church and the Church in Wales are highest in the Southern, Eastern and North Midland Regions (nearly 80 per cent) and lowest in North and Central Wales (about 50 per cent). The proportions for the Roman Catholic Church are also lowest in the latter area and highest in the North West where there is a considerable Irish population. The Methodist proportion is highest in the North, including the whole of Yorkshire, and in the South West, especially in Cornwall (where it is 30 per cent); the Congregationalist, Baptist, Presbyterian and Calvinistic Methodist proportions are highest in Wales (the last-named Church is almost entirely concentrated there) and the Jewish proportion is highest in the London area.

Tables 3 and 4 in Appendix B and Table XXXIV show, for England and Wales and for each Region, the distribution of marriages in the Established Church and the Church in Wales by type of preliminaries and that of marriages in registered buildings according to whether they were solemnized before a Registrar or an Authorised Person.†

The great majority of marriages in the Established Church and the Church in Wales are solemnized after banns. The proportion by licence is generally about 10 per cent or somewhat less (especially in the London and South-Eastern Region—5½ per cent), but in Wales it is rather higher, especially in North and Central Wales where it reaches 20 per cent. The proportion with civil preliminaries (Superintendent Registrar's Certificate) is negligible.

The proportion of marriages in registered buildings which were solemnized before an Authorised Person instead of a Registrar was 42 per cent for the country as a whole, but varies considerably between different parts of the country and even more between different denominations. These two types of variation are not, of course, independent; thus the proportions are generally low in Wales, especially Wales II (North and Centre), while the Calvinistic Methodists, who are concentrated there and form the bulk of the "Other Denominations" in Wales II, have a very low proportion among denominations generally. Very low also is the national proportion among Roman Catholics

* It is possible that in some of these counties immigration from predominantly Roman Catholic countries such as Poland was a contributory factor.

† A person authorised to register marriages by the governing body of the registered building, and certified as such to the Registrar General, under the provisions of the Marriage Act, 1898, re-enacted in the Marriage Act, 1949.

(14 per cent), while among the Methodists it is particularly high (86 per cent), The proportion of such marriages is naturally dependent on the provisions made by the governing bodies of buildings, and the following statement compares some of the marriage figures with corresponding proportions of registered buildings having an Authorised Person in 1951 (the last year for which they are available).

Percentage of Registered Buildings in 1951 for which an Authorised Person had been appointed, and of Marriages in 1952 before an Authorised Person, by Denomination, England and Wales

Denomination	Buildings 1951	Marriages 1952
Total	36	42
Roman Catholics	10*	14
Methodists	58	86
Congregationalists	37	
Baptists	29	64 54
Others	14*	38

^{*} Approximate.

Marriages of divorced persons in 1952 by manner of solemnization are shown in Appendix A on p. 252.

Signature by Mark

Some evidence on the extent of illiteracy is contained in the last three columns of Appendix B, Table 1 in Part II, which show the numbers of persons who signed the marriage register by making a mark. The following table shows how the numbers have decreased since 1914.

Year	Man only	Woman	Both Parties	Total Persons signing by mark
1914	2,322	2,819	537	6,215
1919	2,463	2,433	520	5,936
1924	995	1,041	215	2,466
1929	774	776	141	1,832
1934	463	427	84	1,058
1952	67	58	34	193

It will be seen that the numbers have dwindled to insignificant proportions. They are now so small that they are likely to reflect marriages of persons who are blind or otherwise handicapped (perhaps only temporarily) quite as much as those of illiterates.

WIDOWHOOD AND WIDOWERHOOD

Detailed commentary on widowhood and widowerhood was included in the 1940-1945 Civil Text, pages 47 to 52, to which reference should be made for an introductory discussion on the peculiarities of these statistics with special reference to the alternative classes of "not stated" cases which may arise and such sources of information as there are on these cases. In that commentary the concept of widowhood rates (defined as "The number of widows in a given age group, produced by the death of a husband in the current year, expressed as a proportion of all wives of that age") was introduced, and it is retained in the present commentary. A similar concept applies to widowerhood. Further commentary was contained in the 1946-1950 Civil Text on pages 51 to 53 and in the 1951 Text on pages 78 and 79.

In Table SS of Part II the number of marriages terminated by the death of a spouse are given by joint ages of the deceased and the surviving spouse. Only cases of deaths in which marital condition was stated are included in the table, but the proportion of "not stated" to "stated" marital condition is given for each age of deceased. It has been a feature of these statistics, since they were first collected in 1938, that this "not stated" proportion has been very low for female deaths, a small fraction of one per cent, but has been substantial for male deaths, particularly for ages under 30. Table XXXV shows the "not stated" proportions for males for the years 1938 and 1945 to 1952.

Table XXXV.—Percentage "Not Stated" to "Stated" marital condition— Deceased Men, 1938 and 1945 to 1952, England and Wales

Age of Deceased	1938	1945	1946	1947	1948	1949	1950	1951	1952
All Ages	8.2	5.4	5.5	5.5	5.4	5.0	4.9	4.9	4.5
15 20 25 30 40 45	22·7 40·4 31·5 28·6 22·2 17·4 16·5	13·8 15·0 14·1 16·0 14·7 12·2 10·1	15·3 20·7 21·2 20·5 16·2 13·7 9·9	13·8 28·8 24·6 20·3 16·3 14·7 11·0	10·8 27·7 22·8 20·0 16·4 13·1 9·7	12·8 28·9 24·8 19·7 16·2 12·6 9·8	19·6 40·4 28·6 19·7 14·8 12·4 9·5	14·8 47·2 35·1 21·7 16·3 12·0 9·3	8·7 49·3 34·3 23·9 17·4 12·3 8·6
50 55 60 65 70 75 and over	12·6 10·3 8·3 6·2 5·2 4·3	8·3 7·1 5·8 5·0 4·5 4·1	8·2 6·6 6·0 4·6 4·4 4·0	8·2 6·7 5·9 4·9 4·3 3·8	8·5 6·8 5·6 4·6 3·9 3·5	7·3 5·9 5·0 4·0 3·5 3·4	6·8 5·7 4·8 3·9 3·4 3·4	7·0 5·3 4·9 4·0 3·5 3·2	6·4 5·3 4·3 3·6 3·1 2·9

From 1938 to 1945 there was a more or less general and steady decrease in the percentage "not stated". It may be seen from Table XXXV that since 1945 there has been a tendency for the percentage to continue decreasing at ages over 45, but to increase at ages under 40, and in 1952 at ages 20-24 and 25-29 the percentages exceeded those originally recorded in 1938. Failure to indicate marital condition is more likely for bachelors than for married men whose widows are commonly the informants. If this is so, proportional allocation of the non-stated cases will lead to some bias, and to this extent the rates for males given later must be accepted with some caution at the younger ages.

Table XXXVI.—Widowerhoods per 1,000 Married Men and Widowhoods per 1,000 Married Women, in each age group, 1939, 1946-1949 and 1950 to 1952, England and Wales

Age of Surviving Spouse	g	1939	1946- 49	1950	1951	1952	1939	1946- 49	1950	1951	1952
		W	idowerh Marr	oods p		Ò	org	Widowl	noods ped Won	per 1,00	0
All Ages		8.7	7.5	7.5	7.8	7.0	14.3	13.4	13.8	14.8	13.6
Under 25 25 30 35 40		2·1 2·3 2·3 2·8 3·6 4·9	1·5 1·5 1·6 2·0 2·5 3·9	1·0 1·1 1·3 1·6 2·2 3·6	·8 ·9 1·1 1·5 2·2 3·4	·7 ·8 1·0 1·4 2·0 3·1	1·8 2·0 2·8 4·4 6·6 10·3	1·2 1·7 2·2 3·3 5·3 9·1	1·0 1·4 1·9 3·0 4·9 8·7	9 1·3 1·9 3·1 5·1 8·8	·9 1·2 1·8 2·9 4·7 8·2
50 55 60 65 70 75 and over		7·4 10·5 16·5 24·8 37·3 73·3	5·8 8·7 13·8 21·0 32·6 57·9	5·4 8·4 13·2 21·1 34·2 61·0	5·5 8·6 13·9 21·8 35·9 66·1	5·2 7·5 12·3 19·7 31·6 57·9	16·0 22·9 35·0 49·6 72·1 126·4	14·3 21·1 32·9 46·6 69·3 92·5	14·2 21·6 33·6 49·1 71·7 106·5	15.6 23.3 37.8 53.8 72.3 118.6	14·2 21·5 32·8 48·0 69·4 106·5

^{*} Non-civilian casualties were not classified by marital condition before 1950. An approximate allowance has been made for them by rateable allocation in earlier years.

Table XXXVI shows widowhood and widowerhood rates by age for selected periods from 1939 to 1952. These rates are different in character from published death rates because they derive solely from the deaths of married persons and the latter represent selected lives mainly because they exclude persons whose health denies them the opportunity of marriage. Nevertheless these rates reflect in general the sex and age distribution and annual changes of mortality rates and much of the commentary on mortality rates contained in the medical parts of this Review is relevant to them.

For demographic purposes, however, it is not the nature of small differentials within the main structure of widowhood and widowerhood rates that is important, but the general level of these rates. It is clear that the current level of mortality at ages under 45, is so low that the termination of marriages by the death of one or other of the partners is not significantly depleting the younger married population or, in particular, the population of married women in the reproductive ages.

DIVORCES AND REMARRIAGES OF DIVORCED PERSONS

Divorce

Divorce statistics were shown in Tables O and P in Part II up to 1949, and more detailed statistics have been shown in Tables O and P1 to P4 since 1950. A detailed analysis of and commentary on divorce statistics was included in the 1946-50 Civil Text on pages 54 to 73 and in the 1951 Text on pages 80 to 82.

For the study of the trend of divorce statistics it is better to examine the annual incidence of petitions filed, rather than of decrees absolute granted, since the former are less liable to disturbance from purely administrative changes in procedure and also respond more quickly to real changes in influences tending to change the incidence of divorce.

During the period 1938-1950 the annual incidence of petitions for divorce underwent violent fluctuations, mainly attributable to the direct effect of the war. By 1950 it seemed that the force of this violent change had passed and that 1951 would see the completion of post war re-adjustment or even a resumption of the more normal long-term trend. However a disturbing factor was introduced on 2nd October, 1950, by the Legal Aid and Advice Act, 1949, which extended the facilities for divorce of persons of limited means. The trend of the incidence of divorce over the period 1950-52 may therefore be compared on the one hand with that in the years following the First World War, and on the other hand with that in the years around 1926 when the Poor Persons Rules, 1925, came into opera-

Table XXXVII.—Petitioning for divorce and Decrees Absolute granted, 1918 to 1930 and 1945 to 1952, England and Wales

Year	Divorce Petitions filed (dis- solution and nullity)	Decrees Absolute granted (dissolu- tion and nullity)	Year	Divorce Petitions filed (dis- solution and nullity)	Decrees Absolute granted (dissolu- tion and nullity)
(End of First World War) 1918 1919 1920 1921 1922 1923	2,362 5,184 4,565 2,907 2,462 2,833	1,082 1,629 3,041 3,458 2,509 2,586	(End of Second World War) 1945 1946 1947 1948 1949 1950	25,711 43,163 48,501 37,919 35,191 29,729	15,634 29,829 60,254 43,698 34,856 30,870
1924 1925 (Poor Persons Rules, 1925) *1926 1927 1928 1929 1930	2,978 3,054 3,631 4,294 4,050 3,997 4,288	2,249 2,563 2,554 3,124 3,927 3,333 3,482	(Legal Aid and Advice Act, 1949)† 1951 1952	38,382 34,567	28,767 33,922

^{*} Came into operation on 6th April, 1926.

tion—Rules which in some respects disturbed divorce incidence in a manner similar to that which may be expected from the operation of the Legal Aid and Advice Act, 1949. In TableXXXVII is shown the number of petitions filed and decrees absolute granted in each year from 1918 to 1930 and from 1945 to 1952.

After the First World War, the incidence of divorce petitioning rose steeply to a peak in 1919 and then rapidly declined. After 1922 the numbers increased more or less steadily but gradually each year, until the introduction of the Poor Persons Rules, 1925, intervened. After the Second World War the numbers of petitions involved each year was about ten times as great as before but, so far as has yet been revealed, the pattern followed has been somewhat similar. After a steep rise a peak of over 48 thousand petitions was reached in 1947, and a steep decline had brought the figure down to 30 thousand by 1950. It does not seem unreasonable to assume that, in the absence of the Legal Aid and Advice Act, 1949, or any other disturbing factor, a figure slightly in excess of 30 thousand might have been recorded in 1951.

Whereas the Legal Aid and Advice Act, 1949, positively increased the facilities for divorce available to persons of limited means, the Poor Persons Rules, 1925, merely altered the procedure by which the then existing facilities were made available. Nevertheless it is thought that their influence may have been similar in some respects since, as a result of publicity, they enhanced existing facilities by making those requiring help aware of its availability. An examination of the petitions filed in the years from 1925 to 1930 in Table XXXVII will show that the introduction of the Rules led to a steeper rise in the annual incidence of divorce petitioning than was experienced from 1922 to 1925, though far less steep than that immediately following the war. After a minor peak, there was a decline to 1929, after which a gradually increasing trend was again resumed. Close similarity to this experience must not be expected in the years following 1951, since for one thing the two procedures were introduced in widely different months—April and October, but at least a peak, a decline, and the later resumption of a rising trend may be expected in the absence of further disturbing factors.

The difficulty, to which attention was drawn above, in following the trend of divorce from the incidence of decrees absolute may be seen from Table XXXVII. The peak in divorce petitioning after the First World War was reached in 1919; the peak in the granting of decrees absolute was not reached until two years later. Following the introduction of the Poor Persons Rules, 1925, a peak in petitioning was reached in 1927, but not until the next year was the peak reached in the granting of decrees absolute. Since the Second World War a number of changes have been made in the procedure for obtaining a decree absolute and their influence may be seen from the violent fluctuations in the incidence of decrees absolute in the period 1945 to 1952. A more detailed discussion of these events was included in the 1946-50 Civil Text on pages 54 to 57.

A detailed analysis and commentary on divorce rates by current ages of husband and wife in combination, by current age of wife and duration of marriage, by age of wife at marriage and duration of marriage and by current age of wife and size of family was included in the 1946-50 Civil Text on pages 62 to 67.

Remarriage of Divorced Persons

One aspect of divorce which is of importance is its impact upon the number of married persons in the population and thus upon the incidence of legitimate births. It is, however, necessary to examine together the incidence of divorce and of remarriage of divorced persons since only the net effect of these two forces actually reduces the married population.

[†] Came into operation on 2nd October, 1950.

The general trend of the numbers of married persons who were divorced and of divorced persons who remarried is shown in Table XXXVIII.

Table XXXVIII.—Annual Number of Persons Divorced and of Divorced Persons who Remarried, 1926 to 1952, England and Wales

Period	Number of persons divorced in the period	Persons	Men	Women	Divorced men marrying spinsters	Divorced men marrying widows	Divorced men and women inter- marrying	Divorced women marrying bachelors	Divorced women marrying widowers
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1926–30 s 1931–35 s 2 1936–40 E 1941–45 s 1946–50 V	6,716	3,917	2,128	1,789	1,662	270	392	1,225	368
	8,022	5,154	2,777	2,377	2,179	302	592	1,597	484
	12,361	8,558	4,580	3.978	3,641	464	949	2,746	758
	20,778	12,548	7,093	5,455	5,453	874	1,532	3,587	1,102
	79,803	48,898	26,273	22,625	17,767	3,303	10,406	14,271	3,151
1936	8,114	8,468	3,507	2,961	2,788	354	730	2,009	587
1937	9,772	6,988	3,759	3,229	2,964	374	842	2,192	616
1938	12,500	8,179	4,404	3,775	3,467	471	932	2,576	733
1939	15,910	10,698	5,715	4,983	4,558	550	1,214	3,480	896
1940	15,510	10,458	5,514	4,944	4,430	571	1,026	3,474	957
1941	12,736	9,378	5,091	4,287	4,028	575	976	2,900	899
1942	15,236	9,706	5,437	4,269	4,214	664	1,118	2,815	895
1943	20,024	11,049	6,157	4,892	4,712	797	1,296	3,237	1,007
1944	24,624	13,728	7,914	5,814	6,009	981	1,848	3,693	1,197
1945	31,268	18,879	10,867	8.012	8,303	1,355	2,418	5,292	1,511
1946	59,658	29,636	16,479	13,157	11,781	2,287	4,822	8,596	2,150
1947	120,508	56,945	30,751	26,194	21,272	3,980	10,998	17,277	3,418
1948	87,396	58,728	31,201	27,527	21,072	3,812	12,634	17.541	3,669
1949	69,712	51,494	27,645	23,849	18,150	3,400	12,190	14,435	3,319
1950	61,740	47,687	25,290	22,397	16,558	3,038	11,388	13,503	3,200
1951	57,534	44,171	23,110	21,061	14,809	2,880	10,842	12,524	3,116
1952	67,844	46,098	23,719	22,379	14,861	2,965	11,786	13,071	3,415

Expressed as percentages of the number of persons divorced in the same period the averages for the quinquennial periods 1926-30 to 1946-50 and the single years 1947 to 1952 of remarriages of divorced persons (columns (2) and (3) of Table XXXVIII) were:—

1926-30	1931-35	193	6-40	1941-45	1946-50	
58·3	64.2	69	9.2	60.4	61.3	
1947	1948	1949	1950	1951	1952	multe utgad
47.3	67.2	73.9	77.2	76.8	67.9	

Divorced persons who remarry during any period are not confined to those granted a decree absolute during the same period, so that the above figures do not precisely represent the proportion of divorced persons who ultimately remarry. Most of these figures will understate the true proportion, though perhaps not by a substantial amount when the rate of increase of divorces is slow. Some of the figures for single years after the abrupt peak in divorce incidence in 1947 may, however, overstate the proportion. The decline in the proportion from 1950 to 1952 suggests that more stable figures—continuing the trend from 1926 to 1940—may soon be recorded. The figures suggest that the proportion of divorced persons who ultimately remarry is rising, and is perhaps in the region of two thirds to three quarters, so that the net loss to the married population is only a small fraction of the total number divorced.

Throughout the period covered by Table XXXVIII the number of divorced men who remarried exceeded that of divorced women who remarried, the latter being about 86 per 100 men. The percentage ratios of divorced women to divorced men among those remarrying rose slightly between 1926-30 and 1936-40 from 84·1 to 86·9, fell to 76·9 in 1941-45, rose to 86·1 in 1946-50, 91·1 in 1951 and 94·4 in 1952.

The divergence from the general trend in 1941-45 is shown in detail in the following statement:—

Divorced women remarrying per 100 divorced men remarrying:—

		(Column	s (4) and (5) of Table	e XXXVII	I)	
1938	1939	1940	1941	1942	1943	1944	1945
85·7	87·2	89·7	84·2	78·5	79·5	73·5	73·7
1946	1947	1948	1949	1950	1951	1952	
79·8	85·2	88·2	86·3	88:6	91·1	94:4	

The sharp rise in 1939 and 1940 might be attributable to the operation of the Matrimonial Causes Act, 1937. After 1940 the ratios fell to a low level in 1944 and 1945 and then recovered each year so that the average for the period 1941 to 1952 as a whole was 86·0 per cent, indicating that the relative excess of divorced women remarrying in the years 1948 to 1952 almost compensated for the deficiency in the period 1941 to 1946. An alternative explanation of the high percentages recorded since 1947 is that changed conditions are leading to a fundamental change in the ratio. The change in the sex ratio amongst the non-married population, referred to on page 41, may be a contributory factor.

A more detailed analysis and discussion of the remarriage of divorced persons was included in the 1946-50 Civil Text on pages 67 to 72.

GENERAL MORTALITY

Numbers of Deaths

Deaths registered in England and Wales in 1952 totalled 497,484, compared with 549,380 in 1951 (a year of considerable influenza mortality) and 510,301 in 1950. Deaths of males in 1952 numbered 257,760 and of females 239,724. The deaths of non-civilians, registered in England and Wales, have been included in all tables since 1950. They were excluded from certain tables during the years 1939 to 1949.

Death Rates

Crude death rates represent the total number of deaths at all ages from all causes or from a specified cause registered during the year as belonging to the area in question after correction for transfers to the place of residence of the deceased, per thousand or per million of the corresponding estimated resident population at the middle of the year. Use of the mid-year population involves the assumption, tenable at the present time, that the population resident in the area was either stationary or changing at a uniform rate throughout the year.

Death rates by sex, age, and civil condition are calculated in respect of all or specified causes by dividing the number of deaths of persons in the selected group by the corresponding number of persons in the mid-year population, the rate being expressed per thousand or per million. Exceptions to the use of the estimated populations as denominators are the various rates of infant mortality, which are based on appropriate numbers of live births (page 86), and rates of stillbirths and of maternal mortality which are based upon total numbers of births, live and still.

Standardized Death Rates are of two types, those used for the comparison of mortality trends in a given area over the course of some years and those used for comparison of death rates in different areas in a given year. For the former purpose use is made of the Comparative Mortality Index, which has replaced the standardized death rate in use until 1941, for the measurement of mortality trends from all causes (Table 3 of Part I) and from selected causes (Tables 6 and 9 of Part I). The methods of calculation and a discussion of its advantages over the former standardized rate may be found on pages 6-11 of the Text for 1940-45 (Volume I, Medical). Briefly it represents the ratio between adjusted death rates of the year in question and of a base year (at present 1938), each calculated by weighting the death rates of the various sex-age groups by the means of the corresponding proportions of the populations living in the two years. If the death rate experienced by a sex-age group in the year to which the index relates is denoted by m, and the corresponding rate in 1938 by m', and if r and r' are the proportions of the total population falling within that group

C.M.I. = $\Sigma m (r + r')/\Sigma m' (r + r')$

where Σ denotes summation over all the sex-age groups.

For standardized comparison of death rates from all causes in different areas use is made of **Area Comparability Factors** (A.C.F.) (Table 12 of Part I) which are calculated by a method of indirect standardization and which, when applied to the local crude death rates, produce adjusted rates that can be compared directly with the rate for England and Wales as a whole in the same year (page 67).

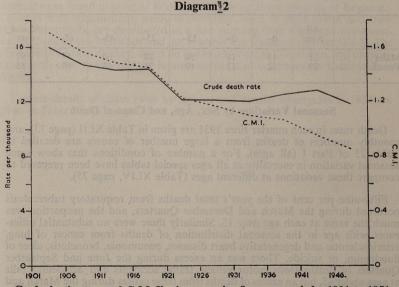
Adjusted ratios of male to female mortality (Table 3 of Part I) are derived by a formula similar to that for the C.M.I., in which m and r refer to males, and m' and r' refer to females, each in the year to which the ratio applies.

The Equivalent Average Death Rate (E.A.D.R.) shown in certain tables in this volume is the arithmetic mean of the rates at quinquennial groups of ages over some convenient range of ages, e.g., 0-4, 5-9, up to 60-64, this being equivalent to calculating a standardized death rate at ages under 65 based upon a population uniformly distributed over the 13 age groups.

The General Trend of Mortality

Table XXXIX (page 71) shows for each sex (a) the crude death rate for all ages and (b) the comparative mortality index for all ages, from 1841 to 1952.

The crude death rate fell by about the same amount in each sex from 1861 to 1921, but since then little further decline has been recorded. The rates of 12·2 (male) and 10·5 (female) in 1952 were lower, but only slightly lower, than the majority of the rates recorded during the previous thirty years. The combined rate for the two sexes, 11·3, has been bettered only in 1948 (11·0) but a rate of 11·4 was recorded in 1930. The crude death rate gives little indication of declining mortality during recent decades, and its annual variations reflect mainly the effects of mild (1948) or cold (1947) winters and periodic epidemics of influenza (1951). Apart from such fluctuations the level of the crude death rate is much influenced by the increasing proportion of old people in the population, whose inevitably high mortality keeps up the average rate when all ages are combined. When allowance is made by means of the C.M.I., for the ageing of the population a much more satisfactory trend of national mortality emerges, indicating an improvement of 16 per cent for males and of 22 per cent for females since 1938, and of nearly double those percentages since 1921.



Crude death rates and C.M. I's. in successive five-year periods, 1901 to 1951

Expectation of Life

The Expectation of Life is the average number of years of life that will be lived by a group of people of given age subject to a given mortality experience, usually the mortality experience of a selected year or period of years, if that experience is reproduced in the future. The basis of the calculation of expectation of life is the Life Table.

No full English Life Table has been published since 1931 but in continuation of the series a 1951 table will be published in due course. Abridged life tables have been published in this Review from 1946 to 1951 and Table XL (page 72) gives an abridged life table for the three years 1950-52. Expectation of life at birth was 66·47 years for males and 71·48 years for females. Corresponding figures from English Life Table No. 10 (1930-32) were 58·74 for males and 62·88 for females, and there has therefore been an increase in expectation of life at birth of just under eight years for males and over eight years for females. The increase in expectation of life at advanced ages has not changed much during the twenty years; for example at age 65 that for males increased from 11·30 in 1931-32 to 11·73 years in 1950-52 and for females from 13·07 to 14·29 years. Expectations of life at birth and at age 1 year since 1841 are shown in Table XLI (page 73).

Death Rates by Sex and Age

The trend of male and female mortality at different ages since 1841 is shown in Table XLIII (page 74), and more details are available in Table 3 of Part I. Improvement in mortality has been much greater at younger than at older ages; and at each age it has been greater amongst females than males. The table below shows death rates in 1952 as percentages of those in 1901-05:—

8.3~	All Ages	0-	5-	15-	25-	45-	65-	85 and over
Males	70	13	18	30	28	60	87	97
Females		12	13	19	25	44	69	85

Seasonal Variations by Sex, Age, and Cause of Death

Death rates in each quarter since 1931 are given in Table XLII (page 73), and monthly numbers of deaths from a large number of causes are detailed in Table 23 of Part I (all ages). For a number of conditions that show some seasonal variation in mortality at all ages special tables have been prepared to compare these variations at different ages (Table XLIV, page 75).

Fifty-nine per cent of the year's total deaths from respiratory tuberculosis occurred during the March and December Quarters, and the proportion was much the same at each age over 15. Similarly there were no substantial differences with age in the seasonal distribution of deaths from cancer of lung, arteriosclerotic and degenerative heart diseases, pneumonia, bronchitis, ulcer of duodenum, or suicide. There was an excess during the June and September Quarters of deaths from motor vehicle traffic accidents and accidental falls at ages under 45, but an excess of deaths from these causes during the March and December Quarters at ages 45 and over.

Comparative Mortality in Different Parts of England and Wales

As indicated above (standardized death rates, page 64), the death rate (all causes) for local areas can be compared, making allowances for local sex and age differences of population, by means of comparability factors given in Table 12 of Part I. When multiplied by the appropriate comparability factor local rates can be compared with one another and with the rate for the country as a whole.

The use of comparability factors for the standardization of local death rates was introduced in 1934, and a description of methods of standardization for area comparisons is given in the Review for that year (Text, page 4), together with an account of the new method and the reasons for its introduction. The populations used as a basis for the factors for 1952 were derived from the 1947 sex-age estimates.

The comparability factors shown in Table 12 (Part I) were calculated on the basis of deaths from all causes and should be used only for the adjustment of death rates relating to all causes. For area comparison of mortality from particular causes a special series of comparability factors would have to be calculated based on mortality from these causes.

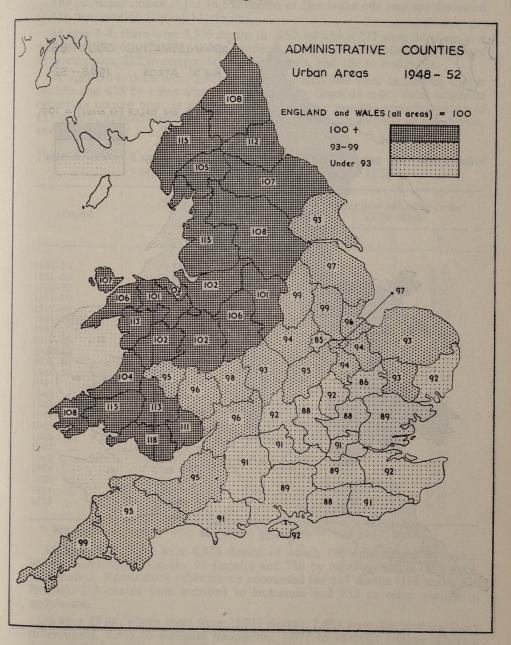
Table 12 (Part I) gives, for every administrative area in the country, the ratio of the local adjusted death rate (all causes) to the national rate for the same year, and averages of these ratios for the five years 1948-52 are given in Table XLV (page 76) in respect of administrative counties with associated county boroughs, and of county urban districts, and county rural districts.

The three maps based on this table (Diagrams 3, 4 and 5) all present much the same picture. In urban districts and in rural districts the levels of mortality (standardized for sex and age) tend to arrange themselves into three broad bands that run across the country from south west to north east. The highest levels of mortality are found in most of Wales and in the northern counties of England. Counties with intermediate levels of mortality, both in their urban and their rural components, are distributed in a line running from Cornwall northwestwards through the Midlands and on towards the Humber and the Wash. The third area, of low mortality, starts on the south coast at Dorsetshire and likewise runs north west to include the home counties and continues on towards East Anglia.

Further details of death rates by regions and density aggregates in 1952 are given in Table XLVI (page 77).

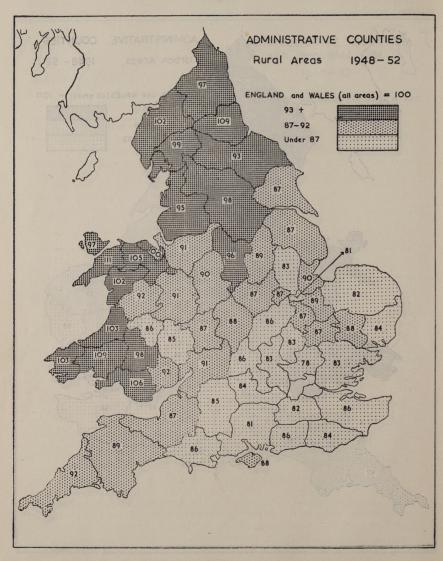
Standardized Mortality Ratios, 1948-52 (Standard = England and Wales).

Diagram 4



Standardized Mortality Ratios, 1948-52 (Standard = England and Wales).

Diagram 5



Standardized Mortality Ratios, 1948-52 (Standard = England and Wales).

Causes of Death at Different Ages

Table XLVII (page 78) shows numbers of deaths in 1952 from selected causes at different ages, the death rates being given in Table XLVIII (page 82).

The principal causes of the 18,555 deaths at ages under one year are discussed in the next section (Infant Mortality).

At ages 1-4, there were 3,356 deaths in 1952, of which 273 were due to motor vehicle accidents and 426 to other accidents. A further 467 deaths were assigned to pneumonia, 282 to congenital malformations, and 159 to leukæmia.

At ages 5-14, there were 2,911 deaths, of which 409 were caused by motor vehicle and 433 by other accidents, about three times as many fatal accidents occurring among boys as among girls. Pneumonia was the reported cause of 117 deaths, appendicitis of 96 deaths, congenital malformations of 150 deaths, and leukæmia of 176 deaths.

Table XXXIX.—Crude annual death rates per 1,000 living and comparative mortality indices, 1841–1950 and 1941 to 1952

Period	Crude deat 1,000	h rate per living	Comparative M (1938	
oles	M	F	M	F
841–50	23·1	21.6	2.12	2.44
851–60	23.1	21.4	2.09	2.37
861–70	23.7	21.4	2.14	2.37
871–80	22.7	20.1	2.09	2:27
881–90	20.3	18.1	1.93	2.10
891–1900	19.3	17.1	1.87	2.01
901–10	16.4	14.4	1.60	1.69
911–20	15.1	13.0	1.45	1.49
921–30	12.9	11.4	1.16	1 22
931–40	13.0	11.5	1.07	1.10
941–50	14.1	11.0	0.92	0.89
941	14.0	11.8	1.10	1:04
942	12.5	10.5	0.97	0.92
943	12.7	11.1	0.98	0:94
944	12.6	10.7	0.95	0.89
945	12.3	10.7	0.92	0.88
946	12.2	10.9	0.89	0.88
947	12.9	11.2	0.92	0.89
948	11.5	10.1	0.82	0:79
949	12.3	11.1	0.86	0.85
950	12.3	11.0	0.85	0.83
951	13.4	11.8	0.92	0.88
952	12.2	10.5	0.84	0.78
10.81	205.8		The state of the s	370

^{*} Based upon civilian mortality only during the periods 1914-18 and 1939-49.

At ages 15-24, there were 4,858 deaths of which 729 were caused by motor vehicle accidents (638 male, 91 female) and 759 by other accidents (667 male, 92 female). Respiratory tuberculosis accounted for 517 deaths (188 male, 329 female). 113 deaths were ascribed to leukæmia and 352 to other malignant neoplasms.

At ages 25-44, where there were 23,912 deaths, 2,854 were due to respiratory tuberculosis, 5,315 to maligant neoplasms, 1,072 to vascular lesions affecting the central nervous system, 1,679 to chronic rheumatic heart disease, and 1,252 to arteriosclerotic (including coronary) heart disease, the last comprising 1,087 deaths of men and 165 deaths of women. Motor vehicle accidents caused 990 deaths and other accidents 1,452 deaths.

At ages 45-64, 115,049 deaths were registered, 68,914 of men and 46,135 of women, a ratio of 1.5 to 1. Deaths from respiratory tuberculosis amongst men (3,184) were much in excess of those amongst women (797). Other causes of death that contributed importantly to the over-all sex disparity were arteriosclerotic (including coronary) heart disease (13,812 men, 4,182 women), pneumonia (2,027 men, 1,166 women), bronchitis (5,377 men, 1,249 women), and cancer of lung (6,876 men, 992 women).

At ages 65-74, 134,772 deaths were registered, with the ratio of men to women at 1.18 to 1. The principal causes certified included cancer (14,513 men, 12,269 women), vascular lesions of the central nervous system (9,904 men, 12,202 women), arteriosclerotic (including coronary) and degenerative heart disease (21,768 men, 16,676 women), and bronchitis (6,048 men, 2,627 women).

At ages 75 and over there were 194,071 deaths of which 85,005 were of men and 109,066 were of women. The principal causes were broadly similar to those at ages 65-74. Despite the over-all excess of female deaths, causes which continued to show a male preponderence were respiratory tuberculosis, cancer of lung, arteriosclerotic (including coronary) heart disease, bronchitis, ulcer of stomach and duodenum, and suicide.

Table XL.—Abridged Life Table, 1950-52. England and Wales

**************************************	Ma	les	Fer	nales
Age x	1 _x	e _x	1 _x	e x (N-)28)
0	10,000	66:47	10,000	71.48
1	9,674	67·70	9,749	72·32
2	9,651	66·86	9,728	71·47
3	9,637	65·96	9,717	70·55
4	9,627	65·03	9,708	69·62
5	9,619	64·08	9,702	68·66
10	9,587	59·28	9,680	63·81
15	9,561	54·44	9,661	58·93
20	9,517	49·68	9,630	54·11
25	9,452	45·00	9,586	49·35
30	9,383	40·32	9,530	44·63
35	9,303	35·64	9,463	39·92
40	9,198	31·02	9,376	35·27
45	9.042	26·51	9,254	30·70
50	8,768	22·26	9,065	26·29
55	8,311	18·35	8,783	22·05
60	7,604	14·82	8,366	18·03
65	6,583	11·73	7,736	14·29
70	5,256	9·06	6,779	10·96
75	3,713	6·79	5,409	8·10
80	2,126	4·99	3,631	5·84
85	880	3:53	1,815	4.19

This abridged life table is constructed from the estimated home population in 1950, 1951 and 1952, the total deaths registered in those years including those of non-civilians registered in England and Wales.

The column headed 1_x shows the numbers who would survive to exact age x out of 10,000 born who were subject throughout their lives to the death probabilities indicated by the 1950-1952 death records. Column e_x is the "expectation of life", that is the average future lifetime which would be lived by persons aged exactly x, if likewise subject to these death probabilities.

Table XLJ.—Expectation of Life at Birth and at Age 1 Year, 1838-1932 and 1943 to 1952, England & Wales

			Date to	Expectation	of life at	
From Eng Life Tal	lish ole	Year	Bi	rth	Age	1 year
			Male	Female	Male	Female
No. 1 2 4 5 6 7 8		1841 1838–44 1838–54 1871–80 1881–90 1891–1900 1901–10 1910–12	40 40 40 41 44 44 49 52	42 42 42 45 47 48 52 55	47 47 47 48 51 52 56 58	48 47 47 50 53 55 58 60
9 10 From annual	2	1920–22 1930–32	56 59 62	60 63 67	60 62 64	63 65 69
Abridged Life Tal	oles	1944 1945 1946 1947	62 63 65 64	68 69 69 69	64 65 67 67	70 71 71 71
		1948 1949 1950 1951 1952 1950–52	66 66 67 66 67 66	71 71 71 71 71 72 71	68 68 68 67 68 68	72 72 72 72 72 73 73

Table XLII.—Annual death rates per 1,000 living, by quarters in each year 1931 to 1952, with ratios to each yearly rate taken as 100

	De	ath rate	per 1,000 liv	ving	Ratio	to yearly	rate taken a	as 100
Year	March	June	September	December	March	June	September	December
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	11.8	9.7	12.0	125	98	80	99
1937	16.2	11.6	9.7	12.3	131	94	78	99
1938	13.6	11.6	9.9	11.5	117	100	85	99
1939	15.1	11.7	9.9	11.8	125	97	82	98
1940	20.6	11.9	10.8	14:1	143	83	75	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	15.4	11.2	9.7	11.9	128	93	81	99
1947	17.6	11.3	9.2	11.4	143	92	75	93
1948	12.4	10.3	9.4	11.7	113	94	85	106
1949	15.2	11.2	9.3	11.8	129	95	79	100
1950	14.0	11.1	9.3	12.3	120	95	80	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

Table XLIII.—Average annual death rates per 1,000 living by sex and age, 1841 to 1952

	37898	10210	38 B B B	or or id iji.	M	ales			33555	87 878			Fen	nales			
The second second	38385	All	0-	5-	15-	25-	45-	65-	85 and over	All	0-	5-	15-	25-	45-	65-	85 and
	1841–1850	23·1	71·3	7·24	8·23	11·2	23·6	89·6	312·3	21·6	61·2	7·27	8·50	11·6	21·1	82·4	293·2
	1851–1860	23·1	72·7	6·79	7·71	10·9	23·2	86·8	308·3	21·4	63·0	6·84	7·98	10·9	20·1	80·0	289·0
	1861–1870	23·7	73·5	6·43	7·26	11·5	24·8	87·7	315·0	21·4	63·7	6·25	7·30	10·7	20·6	79·8	285·0
	1871–1880	22·7	68·4	5·29	6·24	11·3	26·1	90·2	327·4	20·1	58·3	5·05	6·12	9·92	21·0	80·9	296·4
	1881–1890	20·3	61·6	4·20	4·97	9·79	25·5	89·4	306·0	18·1	51·9	4·23	4·97	8·76	20·6	78·9	271·0
	1891–1900	19·3	62·7	3·40	4·38	8·82	25·2	89·4	286·7	17·1	52·8	3·49	4·06	7·58	20·3	79·5	261·3
	1901–1905	17·1	54·7	2·93	3·77	7·59	23·0	83·4	274·6	15·0	45·8	3·03	3·34	6·34	18·1	72·5	249·4
	1906–1910	15·6	45·4	2·67	3·45	6·76	21·7	82·0	283·0	13·8	38·0	2·78	3·05	5·60	16·9	70·8	250·9
	1911–1915	15·5	40·9	2·75	3·69	6·76	21·0	81·7	281·6	13·3	34·0	2·75	3·00	5·17	16·0	69·5	245·4
	1916–1920	14·9	34·4	3·11	4·85	7·61	19·5	81·1	267·8	12·8	28·4	3·18	4·06	5·91	14·4	65·9	241·9
	1921–1925	12·9	27·0	2·10	3·06	5·24	16·9	76·2	272·7	11·4	21·8	2·05	2·83	4·26	12·8	64·0	241·2
	1926–1930	12·9	23·1	2·06	2·93	4·84	17·0	76·3	298·1	11·4	18·5	1·90	2·67	3·97	12·4	62·5	254·4
	1931–1935	12·7	20·1	1·84	2·81	4·23	16·6	75·1	278·9	11·4	16·0	1·71	2·51	3·67	11·9	61·0	245·0
	1936–1940	13·3	17·5	1·60	2·64	3·95	17·3	76·2	286·9	11·6	13·7	1·40	2·17	3·22	11·5	60·1	253·0
	1941–1945 1946–1950	12·8 12·2	15·5 10·5	1·44 0·79	2·99 1·42	3·72 2·58	15·7 14·5	69.0	227·0 241·6	10·9 10·9	12·3 8·14	1·13 0·59	1·98 1·29	2·84 2·17	9·86 8·79	52·6 52·1	207:0
	1951	13·4	7·35	0·61	1·13	2·30	15·1	80·9	307·8	11·8	5·68	0·41	0·77	1·82	8·79	57·7	249·1
	1952	12·2	7·02	0·54	1·12	2·10	13·8	72·9	265·1	10·5	5·45	0·38	0·64	1·60	8·04	50·2	212·3

Table XLIV.—Deaths from certain causes, by age, occurring in each quarter of the year 1952. England and Wales

Cause of Death,	Age	- (Quarterly	Aggregate	A 431.883	Total for	Pero		distribu arters	tion
Int. Classn. No.		Mar.	June	Sept.	Dec.	Year	Mar.	June	Sept.	Dec
Respiratory tuberculosis (001-008)	0- 15- 45- 65 and over All ages	32 1205 1281 555 3073	26 831 942 458 2257	24 560 656 353 1593	16 775 1102 519 2412	98 3371 3981 1885 9335	33 35 32 29 33	27 25 24 24 24 24	24 17 16 19 17	16 23 28 28 28 26
Cancer of lung (162, 163)	0- 15- 45- 65 and over All ages	238 1936 1300 3474	184 1846 1353 3383	174 1939 1358 3471	2 236 2147 1506 3891	2 832 7868 5517 14219	29 25 24 24	22 23 24 24	21 25 25 25 24	100 28 27 27 27 28
Asthma (241)	0- 15- 45- 65 and over All ages	9 71 368 409 857	7 74 228 220 529	14 97 200 182 493	6 90 306 362 764	36 332 1102 1173 2643	25 22 33 35 35 32	19 22 21 19 20	39 29 18 15 19	17 27 28 31 29
Diabetes mellitus (260)	0- 15- 45- 65 and over All ages	10 49 209 686 954	3 39 203 571 816	6 45 150 472 673	10 46 189 651 896	29 179 751 2380 3339	34 27 28 29 29	11 22 27 24 24	21 25 20 20 20	34 26 25 27 27
Vascular lesions affecting C.N.S. (330-334)	0- 15- 45- 65 and over All ages	23 338 3565 16105 20031	15 251 3100 13457 16823	14 283 2701 11007 14005	11 294 3380 14838 18523	63 1166 12746 55407 69382	37 29 28 29 29	24 22 24 24 24 24	22 24 21 20 20	17 25 27 27 27
Chronic rheumatic heart disease (410-416)	0- 15- 45- 65 and over All ages	11 539 1040 1136 2726	14 455 811 798 2078	10 401 720 659 1790	14 481 976 1040 2511	49 1876 3547 3633 9105	22 29 29 31 30	29 24 23 22 23	20 21 20 18 20	29 26 28 29 27
Arteriosclerotic and degenerative heart disease (420)	0- 15- 45- 65 and over All ages	4 329 5009 12124 17466	311 4226 9503 14040	268 3796 8324 12388	355 4962 12219 17536	4 1263 17993 42170 61430	100 26 28 29 28	25 23 22 23	21 21 20 20	28 28 29 29
Pneumonia, including pneumonia of newborn (490-493, 763)	0- 15- 45- 65 and over All ages	1373 241 1136 4365 7115	691 173 668 2329 3861	518 103 399 1507 2527	1010 185 990 3832 6017	3592 702 3193 12033 19520	39 34 36 36 36 36	19 25 21 19 20	14 15 12 13 13	28 26 31 32 31
Bronchitis (500-502)	0- 15- 45- 65 and over All ages	201 156 2531 7546 10434	84 69 1028 3356 4537	49 46 590 1817 2502	208 153 2477 6958 9796	542 424 6626 19677 27269	37 37 38 38 38 38	16 16 16 17 17	9 11 9 9	38 36 37 36 36
Ulcer of stomach (540)	0- 15- 45- 65 and over All ages	1 50 262 507 820	1 37 225 356 619	1 41 233 353 628	1 28 272 503 804	4 156 992 1719 2871	25 32 26 29 28	25 24 23 21 22	25 26 23 21 22	25 18 28 29 28
Ulcer of duodenum (541)	0- 15- 45- 65 and over All ages	2 72 286 359 719	53 222 260 535	1 61 206 253 521	63 282 393 738	3 249 996 1265 2513	67 29 29 28 29	21 22 21 21 21	33 25 21 20 21	25 28 3 29
Motor Vehicle traffic accidents (E810-E825)	0- 15- 45- 65 and over All ages	149 323 178 232 882	192 399 155 158 904	184 496 186 200 1066	137 428 253 300 1118	662 1646 772 890 3970	22 20 23 26 22	29 24 20 18 23	28 30 24 22 27	21 26 32 34 28
Accidental Falls (E900-E904)	0- 15- 45- 65 and over All ages	21 72 106 952 1151	38 70 108 728 944	34 83 101 653 871	24 73 133 882 1112	117 298 448 3215 4078	18 24 24 30 29	32 24 24 23 23	29 28 22 20 21	2/ 2/ 30 27 27
Suicide and self-inflicted injury (E970-E979)	0- 15- 45- 65 and over All ages	288 517 296 1101	297 558 324 1179	267 470 288 1025	3 270 465 295 1033	3 1122 2010 1203 4338	26 26 25 25 25	26 28 27 27	24 23 24 24 24	100 24 2. 24 24

Table XLV.—Standardized Mortality Ratios in Administrative Counties with associated County Boroughs, and in Aggregates of Urban and Rural Areas within Administrative Counties. England and Wales, 1948-52.

(England and Wales, = 100).

Administrative Countie associated County Bor		Aggregates of Urban A within Admin. Cour	Areas ities	Aggregates of Rural A within Admin. Coun	Areas ities
County	S.M.R.	County	S.M.R.	County	S.M.R.
Lancashire	117	Glamorganshire	118	Caernarvonshire	111
Durham	114	Carmarthenshire	115	Carmarthenshire	109
Glamorganshire Carmarthenshire	113	Cumberland Lancashire	115	Durham	109
Cumberland	110	Brecknockshire	115	Glamorganshire Denbighshire	106 105
Northumberland	110	Merionethshire	113	Cardiganshire	103
Yorkshire, West Riding	110	Durham	112	Pembrokeshire	103
Caernarvonshire Monmouthshire	109 108	Monmouthshire Pembrokeshire	111	Merionethshire	102
Staffordshire	107	Northumberland	108	Cumberland Flintshire	102
Merionethshire	106	Yorkshire, West Riding	108	Westmorland	99
Pembrokeshire	105	Anglesey	107	Brecknockshire	98
Yorkshire, North Riding Cardiganshire	105 103	Yorkshire, North Riding Caernaryonshire	107	Yorkshire, West Riding	98
Cheshire	103	Staffordshire	106 106	Anglesey Northumberland	97
Denbighshire	103	Flintshire	105	Derbyshire	96
Flintshire	103	Westmorland	105	Lancashire	95
Yorkshire, East Riding Anglesey	103 102	Cardiganshire Cheshire	104	Yorkshire, North Riding	93
Brecknockshire	102	Montgomeryshire	102 102	THE REPORT OF THE PARTY OF THE	
London	102	Shropshire	102	Cornwall	92
Westmorland	102	Denbighshire	101	Montgomeryshire	92
CONTRACTOR OF THE PARTY OF THE		Derbyshire	101	Monmouthshire	92
Derbyshire	100	AND THE SECOND STREET, THE SECOND STREET, STRE		Cheshire	91
Nottinghamshire	99	Cornwall	99	Gloucestershire Shropshire	91 91
Warwickshire	99	Lincolnshire, Kesteven	99	Lincolnshire, Holland	90
Montgomeryshire Worcestershire	97	Nottinghamshire	99	Staffordshire	90
Cornwall	97 96	Worcestershire Lincolnshire, Lindsey	98 97	Devon	89
Devon	96	Peterborough, Soke of	97	Ely, Isle of Nottinghamshire	89 89
Shropshire	96	Gloucestershire	96	Suffolk, West	88
Leicestershire Lincolnshire, Lindsey	95 95	Herefordshire	96	Warwickshire	88
Peterborough, Soke of	95	Lincolnshire, Holland Devon	96 95	Wight, Isle of	88
Gloucestershire	94	Northamptonshire	95	Cambridgeshire Huntingdonshire	87 87
Lincolnshire, Holland	93	Radnorshire	95	Leicestershire	87
Ely, Isle of Northamptonshire	92 92	Somerset	95	Lincolnshire, Lindsey	87
Somerset	92	Ely, Isle of Huntingdonshire	94	Rutland Somerset	87
Sussex, East	92	Leicestershire	94	Worcestershire	87 87
		Norfolk	93	Yorkshire, East Riding	87
Kent	91	Suffolk, West	93		
Middlesex	91	Warwickshire Yorkshire, East Riding	93	Dorset	96
Southampton	91	Zornomie, Zast Ridnig		Kent	86 86
Wight, Isle of	91	D 16 11:		Northamptonshire	86
Bedfordshire Essex	90	Bedfordshire Kent	92	Oxfordshire	86
Herefordshire	90	Oxfordshire	92 92	Radnorshire Sussex, West	86
Huntingdonshire	90	Suffolk, East	92	Herefordshire	86 85
Suffolk, West	90	Wight, Isle of	92	Wiltshire	85
Dorset Lincolnshire, Kesteven	89 89	Berkshire Dorset	91	Berkshire	84
Radnorshire	89	Middlesex	91	Suffolk, East Sussex, East	84
Suffolk, East	89	Sussex, East	91	Bedfordshire	84
Berkshire	88	Wiltshire	91	Buckinghamshire	83
Wiltshire Norfolk	88	Essex Southampton	89	Essex	83
Oxfordshire	87	Surrey	89 89	Lincolnshire, Kesteven Norfolk	83
Surrey	87	Buckinghamshire	88	Surrey	82 82
Sussex, West	87	Hertfordshire	88	Peterborough, Soke of	81
Cambridgeshire Rutland	86	Sussex, West	88	Southampton	81
	86	Cambridgeshire	86	Hertfordshire	78
Buckinghamshire	85	Rutland	85	t save bas to (Section	

Table XLVI.—All Causes: Death rates per 1,000 living by sex and age in Standard Regions and population density aggregates, 1952.

			Ma	les					Fem	ales		
	0-	5-	15-	45-	65 & over	All	0-	5-	15-	45-	65 & over	All
ENGLAND AND WALES Conurbations Areas outside conurbations:	7·02 6·85	0·54 0·53	1·81 1·85	13·8 14·9	79·2 84·0	12·2 12·4	5·45 5·38	0·38 0·38	1·31 1·33	8·04 8·17	58·4 60·3	10·5 10·3
Urban areas with populations 100,000 and over	7.08	0.55	1.86	14.3	83.0	12.5	5.44	0.43	1.38	8.39	59.8	10.6
Urban areas with populations of 50,000 and under 100,000	7.13	0.58	1.72	13.9	79.9	12.5	6.11	0.42	1.27	7.88	57.8	10.9
Urban areas with populations under 50,000	7.31	0·54 0·54	1·82 1·74	13·4 11·1	78·8 70·6	12·7 11·0	5·48 5·28	0·37 0·37	1·33 1·21	8·14 7·53	58·8 55·5	11·0 10·1
NORTH OF ENGLAND Regions:		0.55	2.10	140	70.0	10.5	6.50	0.45	1.52	8.80	61.5	10.3
Northern East and West Ridings North Western Total	8.17	0·55 0·50 0·58 0·55	2·10 1·88 2·04 2·01	14·9 14·3 15·9 15·2	79·8 84·7 85·0 83·7	12·5 12·9 13·4 13·0	6·50 6·01 6·63 6·41	0·43 0·41 0·43	1·39 1·49 1·47	8·63 8·96 8·83	62·4 62·9 62·5	10·9 11·3 11·0
Conurbations: Tyneside West Yorkshire S.E. Lancashire Merseyside Total	7·33 7·89 9·55	0·35 0·47 0·62 0·53 0·52	2·33 1·96 2·06 2·21 2·10	16·0 15·3 16·7 16·5 16·2	81·9 89·4 87·6 84·8 86·8	13·1 14·2 13·7 12·5 13·5	6·57 6·08 6·63 7·08 6·59	0·39 0·48 0·43 0·38 0·42	1·64 1·32 1·51 1·61 1·50	8·85 8·93 9·43 8·37 9·01	60·6 64·9 64·2 61·8 63·5	10·1 12·1 11·6 10·1 11·2
Areas outside conurbations: Urban areas with population of 100,000 and over	7.24	0.61	1.97	15.5	81.4	13.0	6.25	0.50	1.47	8.61	64.5	10.8
Urban areas with population of 50,000 and under 100,000	7.04	0.72	1.88	16.0	83.5	13.2	6.70	0.49	1.45	9.22	64.4	11.1
Urban areas with population under 50,000 Rural areas	7.32	0·55 0·55	1·93 1·76	15·2 13·0	85·7 73·0	13·1 11·1	5·41 5·61	0·42 0·46	1·39 1·33	8·75 8·24	64·2 59·1	10.8
MIDLANDS AND EASTERN Regions: North Midland Midland Eastern	7·39 5·87	0·53 0·59 0·46 0·54	1·73 1·82 1·61 1·74	12·2 13·5 11·0 12·4	75·4 79·6 73·0 76·2	11·4 11·2 11·3 11·3	5·63 5·81 4·59 5·41	0·39 0·39 0·32 0·37	1·30 1·32 1·17 1·27	7·69 8·04 7·06 7·64	55.3	9·79 9·43 10·3 9·78
Total Conurbation: West Midlands	7.00	0.59	1.84	14.7	82.8	11.3	6.05	0.35	1.37	8.06	59.1	9.20
Areas outside conurbation: Urban areas with population of 100,000 and over		0.54	1.75	14.1	81.2	11.8	4.96	0.51	1.33	8.44	58.9	10-1
Urban areas with population of 50,000 and under 100,00	S	0.58	1.64	13.1	83.1	11.3	5.72	0.39	1.27	7.82		9.64
Urban areas with population under 50,000	s 6.72	0·61 0·47	1.64 1.76	12·3 10·4	84·8 70·7	12·1 10·7	5·13 4·87	0·36 0·35	1·20 1·17	7·72 7·06	62.1	10.4
GREATER LONDON	5.50	0.51	1.67	14.1	82-1	11.9	4.18	0.35	1.20	7.55	58.2	9.90
SOUTH OF ENGLAND Regions:												
Remainder of South East	. 6·30 . 6·14 . 6·63 . 6·36	0·51 0·48 0·60 0·53	1.62 1.54 1.70 1.62	12·4 11·6 12·6 12·2	74·1 75·4	12·9 11·1 12·2 12·1	4·69 4·89	0·38 0·30 0·39 0·36	1·17 1·07 1·25 1·16		54·1 57·4	11.8 10.3 11.3 11.3
Urban areas with population of 100,000 and over	. 6·41	0.56	1.69	13.5	81.2	12.6	4.54	0.32	1.20	8.14	61.9	11.4
Urban areas with population of 50,000 and under 100,00	0 5.44	0.51	1.61	14.2	77.7	13.3	4.98	0.43	1.00	7.53	58.2	12.
	. 6·15 . 6·25		1.64 1.64	12·7 11·0		12.9		0·38 0·37	1·27 1·08			11.1
WALES	40			7							9127	
Regions: Wales I and II Urban areas with population	. 8.79	0.60	2.21	14.9	200	13-4		7				10.
of 100,000 and over Urban areas with population	. 7·30					13.4						9.8
of 50,000 and under 100,00 Urban areas with population	0 14.0	45 75		17.6		15.7	6.36	0-37	1.49	9.18	62.8	10-
	8.52		A STATE OF THE PARTY OF									10.

Table XLVII. — Causes of Death by Sex, at Different Periods of Life. England and Wales, 1952. (Classified in accordance with the International Abbreviated List, with certain sub-divisions).

Abbrevi- ated	Causes of Death			-3-100-T	dods de	6 60			Years			
List No.	17 I I SP		All ages	0-4 weeks	4 wks. -1 yr.	1-	5–	15-	25-	45-	65-	75 and
2 9	ALL CAUSES	∫ M F	257760 239724	7136 5195	3527 2697	1930 1426	1734 1177	3039	13415	68914	73060	85005
B1	Tuberculosis of respiratory system	{M F	6421 2914	1	8 7	18	23	1819 188	10497 1561	46135 3184	61712 1161	109066 277
B2	Tuberculosis, other forms	M	693 557		28 24	127	17 59	329 74	1293 150	797 166	286 64	161 25
В3	Syphilis and its sequelae	{M F	1097 522	1 3	12 5	90	69 2	70 2	107 54	108 479	55 387	34 160
B4	Typhoid fever	{M F	5 4	_	96 9	_	(D.D. 19.0)	2	32	229	135	115
B5	Cholera	∫M ∫ F		100 Sept. 200 Sept.	0/6 0				-		2	1
В6	Dysentery, all forms	M F	24 12	22.2	$\frac{1}{3}$	$\frac{1}{1}$	2	2	6	3	$\frac{}{2}$	7
В7	Scarlet fever and streptococcal sore throat	MF	30 34	1	3 -	2 3	3	4	8	5	1 4	5 2
B8	Diphtheria	M F	14 18	25122	92 -	3 7	3 4	3	5	11 2	5	3
В9	Whooping cough	M	84 100		56	24	4 2	5	4	2 1	1 -	
B10	Meningococcal infections	M F	160 130	1 3	55 64	40 60	10	5	1 8	11	主	1
B11	Plague	₹M F	-		47	40	10	4	4	13	5	4
B12	Acute poliomyelitis	M F	167 108		5	20	34	26	75	7	#	
B13	Smallpox	M	108	3 3 3 - 3	3	6	21	23	45	6	丰	
B14	Measles	M	71 70	1	15 21	38 29	12	1	4	$\frac{1}{2}$	土	2 _

79	B15 B16 B17 B18 B19 B20 B21 B22 B23 B24 B25	Typhus and other rickettsial diseases Malaria All other diseases classified as infective and parasitic Malignant neoplasm of stomach (151) Malignant neoplasm of trachea, bronchus and lung (162, 163) Malignant neoplasm of breast (170) Malignant neoplasm of uterus (171–174) Leukaemia and aleukaemia (204) Other malig. & lymphatic neoplasms (Rem. 140–205) Benign and unspecified neoplasms Diabetes mellitus Anaemias Vascular lesions affecting central nervous system Nonmeningococcal meningitis Rheumatic fever	MFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMFMF	1 8 1 529 551 8066 6343 11981 2237 59 8285 4024 1102 941 24221 20383 791 925 1091 2247 603 1148 29158 40230 197 145 144 184 3469	111 22 — 11 1 6 2 6 6 — 4 4 — 13 13 13 — —	32 28 	34 35 -1 1 1 	104 72 1102 34 16 7 10 8 21 17 12 5 45 53 26	2 24 32 9 2 13 4 - 4 7 64 49 191 122 26 31 15 21 6 10 55 41 4 7 8	2 1 97 94 300 206 659 156 2 817 376 159 126 1287 1227 123 153 61 81 22 45 530 542 24 11 29 40 683	1 4 4 152 163 3118 1663 6876 992 23 3659 1917 327 299 7168 6757 357 390 258 493 112 232 5732 7014 44 27 25 36 1410	68 78 2766 2212 3462 657 19 2127 1043 229 193 8037 6037 141 161 383 868 202 334 9904 12202 21 14 13 14 748	66 94 1873 2259 969 428 15 1678 678 112 130 7293 6038 84 140 354 775 242 512 12896 20406 5
	41.412	Contraction of the second seco	FM	145 144	13	41	21 6	5 45	7 21	11 29	27 25	14 13	6 5 10
	B25	Chronic rheumatic heart disease Arteriosclerotic heart disease including coronary disease (420)			<u></u>								
	B26 {	Degenerative heart disease (421, 422)	M F	30812 40986	- HEEE TO	- 1 3 - 1	1 1	2 4	17 8	156 126	2786 2241	7914 8081	19936 30524

the table includes the following deaths from epidemic diseases which occurred more than a year after onset of the disease:

B4. Typhoid fever, 1M (65—), 3F(65—, 65—, 75+.)

B7. Scarlet fever, 5M (15—, 25—, 25—, 45—, 65—), 10F(5—, 15—, 15—, 25—, 45—, 45—, 65—, 65—, 75+, 75+.)

B8. Diphtheria, 1M (45—.) 8F (15—, 15—, 15—, 25—, 25—, 25—, 45—, 65—.)

B9. Whooping cough, 2M (15—, 45—.) 1F (45—.)

B13. Smallpox, 1F (45—.)

B15. Typhus and other rickettsial diseases, 1F(45—.)

Abbreviated List No.	Causes of Death		All	0-4 weeks	4 wks. -1 yr.	1- 1	5-	15-	Years 25-	45-	65-	75 and over
-101-	Degenerative heart disease (421, 422) (M	ages	WEEKS	-1 yl.	1-	<u> </u>		23-	3.00	Value	over
B27	Other diseases of heart	MF	3170 3273	3	4 4	6 9	5 7	29 22	133 111	829 679	1021	1240 1717
B28	Hypertension with heart disease	M	5081				1	2	52	1168	1783	2075
	\	FM	5913 3925		3			1 5	48 139	967	1981 1249	2916 1504
B29	Hypertension without mention of neart	F	4057	= = = = = = = = = = = = = = = = = = = =		-0	ī	9	107	714	1220	2006
B46	Other circulatory diseases (450–468)	MF	6858 7512		4 2	1 3	4 4	13 20	116 106	885 772	1854	3981 4936
(Pt.) B30	Influenza	M	879	1	20	5	12	15	55	273	240	258
2000	A.C. (1970) (1970)	FM	871 9782	1	15 1197	260	58	11 59	45 325	155 2027	209 2451	419 3405
B31	Pneumonia	F	8826	=	899	207	59	49	269	1166	1873	4304
B32	Bronchitis	M F	17694 9574	17 12	205 141	72 52	27 16	7 24	260 133	5377	6048	5681 5320
B46		M	3175	13	38	46	32	48	245	1302	841	610
(Pt.)	(470–475, 510–527)	FM	1401 4059	10 3	30	27	32	26 24	141 316	297 1645	274 1271	564 799
В33	Ulcer of stomach and duodenum	F	1325		3	100	-	5	60	343	424	490
B34	Appendicitis {	M F	598 447	1	3	42 18	60	40 20	88	156 126	117	91
B35	Intestinal obstruction and hernia	M	1588	68	63 35	30	14	15	81 60	381 340	436 480	500 566
В36	diarrhoea of newborn	F M F	1556 1065 1333	46 3 3	362 267	17 65 40	5 8 14	18 21	96 121	156 224	166 275	191 368
В37	Cirrhosis of liver	M F	645 479	1 2	3 5	1 3	6 5	5 7	87 40	297 203	158 151	87 63
B38	Nephritis and nephrosis	M F	2994	7	10	21 18	55 46	128 92	441 350	977 825	641 713	721 826
B39	Hyperplasia of prostate	M	2879 4351	1	3.9	10	40	7.4	2	301	1379	2669
B40*	Complications of pregnancy, childbirth and puerperium	F	498	=		-	_	81	398	17	1	1

B41 B42 B43 { B44 B45 B46 (Rem). BE47 BE48 BE49 BE50	atelectasis Diarrhoea of newborn (764) Other infections of newborn (763, 765-768) Other dis. of early infancy and immaturity unqualified Senility without mention of psychosis, illdefined and unknown causes All other diseases (Remainder 001–795) Motor vehicle accidents All other accidents Suicide and self-inflicted injury	M 2323 F 2130 M 2656 F 1667 M 40 F 26 M 575 F 404 M 2695 F 2018 M 2997 F 4748 M 8524 F 10407 M 3147 F 970 M 5850 F 4195 M 2788 F	1006 942 2592 1631 40 26 569 403 2601 1948 10 5 70 44 —————————————————————————————————	591 527 64 34 — 6 1 91 66 16 155 3 2 290 212 — 4 6	141 141 	72 78 ——————————————————————————————————	87 57 ——————————————————————————————————	162 133 ——————————————————————————————————	186 168 ————————————————————————————————	48 54 ——————————————————————————————————	30 30
int	Burns Effects of poisons	M 6468 F 3438 M 245 F 492 M 2042 F 1624 M 3237 F 1256	93 74	13 12 6 11 5 6 273 191	230 110 42 75 39 24 141 54	372 136 13 54 17 11 223 39	1009 131 12 10 83 30 340 62	1679 176 36 26 485 309 611 161	1456 394 33 70 851 720 901 320	722 596 29 79 368 311 385 168	981 1877 74 165 194 213 270 187

Table XLVIII.—Death Rates by Sex from Certain Causes at Different Periods of Life. England and Wales, 1952. (Classified in accordance with the International Abbreviated List, with certain sub-divisions).

	ng B40 includes the following deaths with right between maternal, densition and instaged to exceed I year.	All	0-4 weeks	4 weeks to 1 year	1-	5-	15-	25-	45-	65-	75 and over
Abbreviated List Nos.	Causes of Death	Rates per million living	relate	per 1,000 d live ths	131	30	Rates	per millio	n living	100	1 1000
11 <u>347</u>	Estimated mid-year population { M F	21,110 22,845	345,, 327,	878* 857*	1,459 1,391	3,216 3,085	2,719 2,838	6,386 6,549	4,998 5,737	1,377 1,910	620 1,015
B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11	ALL CAUSES Tuberculosis of respiratory system Tuberculosis, other forms Syphilis and its sequelae Typhoid fever Cholera Dysentery, all forms Scarlet fever and streptococcal sore throat Diphtheria Whooping cough Meningococcal infections Plague	12,210 10,493 304 128 33 24 52 23 0 0 1 1 1 1 4 4 8 6	20·65 15·86 0·00 	10·24 8·26 0·02 0·08 0·07 0·04 0·02 	1,323 1,025 12 17 87 65 — 1 — — — 1 1 2 2 2 5 11 16 29 41 29	539 382 7 6 18 22 1 ———————————————————————————————	1,118 641 69 116 27 25 1 1 1 - 2 0 - 2 1	2,101 1,603 244 197 23 16 8 5 0 0 - - 1 0 1 1 0 1 1	13,788 8,042 637 139 33 19 96 40 0 	53,057 32,310 843 150 46 29 281 71 1 1 1 - 1 1 3 3 - 1 - 3	137,105 107,454 447 159 40 33 258 113 — 1 — 1 5 3 3 3 3 - 1 - 2 4 4 1 - 1 - 2 - 4 - 2 - 4 - 2 - 3 - 3 - 3 - 3 - 2 - 2 - 3 - 3 - 2 - 2

^{*} Live birth occurrences.

	B12	Acute polomyeliitis {	M F	8 5	0.01	0.02	14 4	11 7	10 8	12 7	1 1	311	328
	B13	Smallpox {	M F	-0	5000	建 01	38	三	18		- 0	二藏	二號
	B14	Measles	M F	3 3	0.00	0·04 0·06	26 21	4 6	0	1_	- 0	- 1000 - 1000 - 1000	三
	B15	Typhus and other rickettsial diseases {	M F	- 0	TO ST	- U-3 1	32	二9	38	38	0	P 11	2004
	B16	Malaria	M	0	105	11. (6)	40	<u>_8</u>	1	0	1	1585	五份
	B17	and parasitic	M F	25 24	0·03 0·01	0·09 0·10	23 25	14	9	15 14	30 28	49	106 93
	(b) (Malignant neoplasm of stomach (151)	M F	382 278	100	TRUE	-1		3	47 31	624 290	2,009 1,158	3,021 2,226
	18年	Malignant neoplasm of trachea, bron- chus and lung (162, 163)	M F	568 98	0.00	<u>u</u>	1 -	= 1	5	103 24	1,376 173	2,514 344	1.563 422
		Malignant neoplasm of breast (170)	M F	363	_	理學		_1	1	125	638	14 1,114	24 1,653
83	B18	Malignant neoplasm of uterus (171-174)	F	176			2	-20	2	57	334	546	668
22	333	Leukaemia and aleukaemia (204)	M F	52 41	0.00	0.03	65 46	32 23	24	25	65 52	166 101	181 128
		Other malignant and lymphatic neo- plasms (Remainder of 140-205)	M F	1147 892	0.00	0·06 0·04	69 60	38 33	70 43	202 187	1,434 1,178	5,837 3,161	11,763 5,949
	B19	Benign and unspecified neoplasms	M F	37 40	0.01	0·04 0·04	9 5	11 8	10	19 23	71 68	102 84	135 138
	B20	Diabetes mellitus	M	52 98	_	_	3	5 2	6	10	52 86	278 454	571 764
	B21	Anaemias	M F	29 50		0.00	4 4	3 3	2 4	3 7	22 40	147 175	390 504
	B22	2	M	1381	0.01	0.02	4	7	20	83	1,147 1,223	7,192 6,388	20,800 20,104
	Military	system Canada of Death	FM	1761	0.04	0.14	17	4	1 1	4	1,223	15	20,104
	B23	Nonmeningococcal meningitis {	F	6	0.04	0.12	15	2	2	2	5	7	6
	B24	Rheumatic fever {	M F	7 VII 8		0.01	1	14 17	8 10	6	5 6	7	10
	B25	Chronic rheumatic heart disease {	M F	164 247		0.00		8 7	32 38	107 152	282 373	543 657	829 1,100

	2031	Museum to the control of Death 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	All ages	0-4 weeks	4 weeks to 1 year	1-4	5-	15-	25-	45-	65	75 and over
	Abbrevi- ated List Nos.	Causes of Death	Rates per million living	relate	per 1,000 ed live rths	19 July 20	3	Rates p	er millior	living	0 108 V 161 110 110	50101 301860 301860
	B26 {	Arteriosclerotic heart diseases, including Coronary disease (420) Degenerative heart disease (421, 422)	982 1460	0.00	- - - -	_ _ 1	1 1	3 1 6 3	170 25 24 19	2,764 729 557 391	10,061 4,500 5,747 4,231	16,506 9,345 32,155 30,073
00	B27	Other diseases of heart M F	155 161	0.00	0·01 0·02	4 6	2 2	11 8	21 17	166 118	741 588	2,000 1,692
84	B28	Hypertension with heart disease	241 259	-		=	-0 -	0	8 7	234 169	1,295 1,037	3,347 2,873
	B29	Hypertension without mention of heart \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	178	_	0.01	=	0	2 3	22 16	205 124	907 639	2,426 1,976
	B46	Other circulatory diseases (450-468) M F	329	0.00	0.00	1 2	1	5 7	18 16	177 135	1,346 874	6,421 4,863
	(pt) B30	Influenza SM	42 38	0.00	0·06 0·04	3 6	4 2	6	9 7	55 27	174 109	416 413
	B31	Pneumonia { M	463 386	G G G	3.46	178 149	18 19	22 17	51 41	406 203	1,780 981	5,492 4,240
	B32	Bronchitis	838 419	0.05	0.60	49	8	3	41	1,076	4,392	9,163
	B46 (pt)	Other diseases of respiratory system (470-475, 510-527)	150 61	0·04 0·04 0·03	0·43 0·11 0·09	37 32 19	5 10 10	8 18 9	20 38 22	218 261 52	1,375 611 143	5,241 984 556
	B33	Ulcer of stomach and duodenum	192	0.01	0.00	1	-	9 2	49	329	923	1,289
	B34	Appendicitis SM	28 20	0.00	0.01	29 13	19	15	14	60 31	85 62	483 147
	В35	Intestinal obstruction and hernia $ \begin{cases} M \\ F \end{cases} $	75 68	0·20 0·14	0·18 0·11	21 12	12 4 2	6 2	6 13 9	22 76 59	62 317 251	88 806 558

	B36	diarrhoea of newborn	M 50 F 58	0.01	1.04 0.82	45 29	2 5	7 7	15 18	31 39	121 144	308 363
	В37	Cirrhosis of liver	M 31 F 21	0.00	0.01	1 2	2 2	2 2	14	59 35	115 79	140 62
	B38	Nephritis and nephrosis	M 142 F 126	0.00	0.03	14	17	47 32	69 53	195 144	466	1,163 814
	B39 B40	Hyperplasia of prostate Complications of pregnancy, childbirth and puerperium	M 206 F 22		-	_		29	0 61	60	1,001	4,305
	B41	Congenital malformations {	M 110 F 93	2.91	1.71	97	22 25	32 20	25 20	37 29	35 28	48 30
	B42	atelectasis	M 126 F 73	7·50 4·98	0·19 0·10	- 1				_ _	_	
		Diarrhoea of newborn (764)	M 2 F 1	0.12	_			_				
	B43 {	765-768)	M 27 F 18	1·65 1·23	0.02	=	_			_		
	B44	Other diseases of early infancy, and im-	M 128 F 88	7·53 5·95	0·26 0·20	2 3	_	_	-	5.	-	_
85	B 45	Senility without mention of psychosis, ill-defined and unknown causes	M 142 F 208	0.03	0·05 0·02	5 4	0 0		1 1	6 5	169 117	4,331 4,401
	B46 (Rem)	All other diseases (Remainder 001-795) {	M 404 F 456	0·20 0·13	0·65 0·48	128 103	51 45	91 76	142 153	519 520	1,627 1,456	3,047 2,896
	BE47	Motor vehicle accidents {	M 149 F 42		0.00	130	90 39	235 32	136 18	121 35	219	403 168
	BE48	All other accidents	M 277 F 184	0·27 0·24	0·85 0·66	173 124	100 36	245 32	197 29	264 89	460 343	1,627 2,139
	BE49.		M 132 F 68				0	45 12	99 51	248 134	389 164	413 97
	BE50	Homicide and operations of war	M F 10 4	0·01 0·02	0·01 0·02	6 5	3 3	7 6	8 4	15	25	6 2
	BN47	Fractures, head injuries and internal { injuries	F 150	0·02 0·02	0·04 0·04	158 79	116 44	371 46	263 27	291 69	524 312	1,582 1,849
	BN48	Burns	M 12 F 22	0.01	0·01 0·05	29 54	18	4 4	6 4	7 12	21 41	119 163
	BN49	Enects of poisons	M 97 F 71		0·01 0·02	27 17	5 4	31 11	76 47	170 126	267 163	313 210
	BN50	All other injuries	M 153 F 55	0.27	0·79 0·58	97	69	125	96 25	180 56	280 88	435 184

INFANT MORTALITY AND STILLBIRTH

About 1,900 babies were delivered every day throughout 1952. Out of the 1,900, there were 43 stillborn, and 50 who died before their first birthday, more than half within a few days of birth.

During the whole year, 689,371 births occurred; of these 673,735 were live and 15, 636 still. Deaths of infants under one year numbered 18,555. The losses by stillbirth and death within one year were 50 per 1,000 total births; of these 23 per 1,000 were stillborn. The infant mortality was 28 per 1,000 live births.

Although there was justifiable satisfaction in reporting for 1952 the lowest infant mortality rate ever recorded (seven per cent less than in 1951), there should be no complacency in the face of rates for stillbirths and for deaths under one week which were hardly any lower than in the previous few years.

This disquieting resistance to improvement became apparent in 1949 and has been maintained for four years; the rates from 1949 to 1952 as percentages of those in 1948 were as follows:

\$00m0000000000000000000000000000000000		Rates	per cent o	of those in	1948:
60643668 68 888	Rates in 1948	1949	1950	1951	1952
Stillbirths per 1,000 total births	23.2	98	97	99	98
Deaths 0-6 days per 1,000 related live births	15.6	100	97	99	97
Deaths 7-27 days per 1,000 related live births	4.1	90	80	80	76
Deaths 4 weeks and under 1 year per 1,000 related live births	14.2	92	78	77	65

Definitions of the rates employed: problems of measurement

A simple definition of an infant mortality rate is the number of deaths among liveborn infants at ages under 12 months registered in a given year per 1,000 live births registered during the same year.

The number of live births and stillbirths registered during the year does not necessarily give the true population at risk. There may be variations in delay between the actual time of birth (or stillbirth) and the time when the birth (or stillbirth) is registered. In the case of live births, some of the infants dying in any year will have been born the previous year and should properly be related to live births occurring at that time; if the birth-rate has changed, this may be different from the number occurring during the year. The Medical Text Volumes for 1940-45 (pages 27-29) and 1946-47 (pages 15-17) discuss an adjustment which takes both these factors into account. Infant mortality rates have been calculated per 1,000 "related live birth occurrences" regularly since 1941; the phrase is abbreviated in the table legends to "related live births". In the same way, stillbirths have been calculated per 1,000 total birth occurrences.

The following table shows the infant mortality rates based on "registered" and "related" live births respectively for each of the last five years, and sets out the differences between them. The difference in 1952 was negligible, there being relatively little change in the number of births taking place as compared with the previous year.

	1947	1948	1949	1950	1951	1952
(a) Infant mortality per 1,000 "registered" live births	41.6	34.4	32.7	30·1	29.8	27.6
(b) Infant mortality per 1,000 "related" live births	41.4	33.9	32.4	29.6	29.7	27.6
Difference (b)-(a)	-0.2	-0.5	-0.3	-0.5	-0.1	0.0

The 1940-45 Medical Text shows how to compute "related" infant mortality rates by sex, legitimacy and quarters of the year, and for regional areas. The method is more fully described with the aid of worked examples, in a recent comprehensive review.* The necessary data from which the infant mortality rates per 1,000 related live births during 1952 were calculated are given in Table 26 of Part I and Table YY of Part II of the Annual Review.

The rates exhibited in the present series of tables all relate to the calendar year unless otherwise specified, and conform to the following definitions:

Infant Mortality Rate—Deaths among liveborn infants at ages under 1 year per 1,000 related live births.

Neonatal Mortality Rate—Deaths among liveborn infants, under 4 weeks of age per 1,000 related live births.

- (a) Early Neonatal Mortality Rate—Deaths among liveborn infants under 1 week of age per 1,000 related live births;
- (b) Late Neonatal Mortality Rate—Deaths among liveborn infants aged 1 week but under 4 weeks per 1,000 related live births.

Post-neonatal Mortality Rate—Deaths among liveborn infants aged four weeks but under 1 year of age per 1,000 related live births. ("Post-neonatal" is preferred as the descriptive adjective for this age period because it is self-explanatory in relation to the well-established term "neonatal". The adjective "postnatal" is best employed in its literal meaning of "after birth", irrespective of the time period.)

Stillbirth Rate (Late Foetal Mortality Rate)—Births at or over 28 weeks gestation which are not liveborn, per 1,000 births (live and still).

Perinatal Mortality Rate—This term has come into use in recent years to describe a combination of stillbirths with early neonatal deaths (deaths under 1 week) per 1,000 total births; it appears in several of the tables in the present Text with total births (live plus still) as the denominator. Stillbirths combined with all neonatal deaths are also shown.

Causes of death at different age-periods

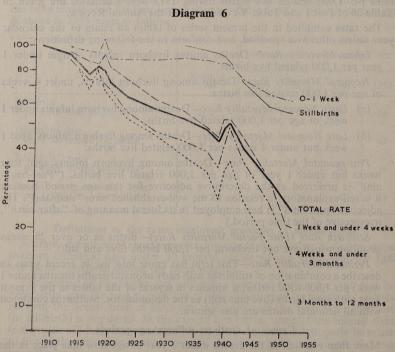
More than one-half of the deaths under 1 year of age now take place in the first week of life, and two-thirds before the 28th day. Eighty per cent of the first week deaths are due to conditions which for the most part originate before or during birth (Table L, page 94, prenatal and natal causes), 12 per cent being

^{*} Logan, W.P.D." The measurement of infant mortality". Population Bulletin of the United Nations, No. 3, October, 1953, p. 30

due to congenital malformations. The causes of stillbirth are not registered in England and Wales, but it is generally accepted that in many cases the factors responsible for late foetal deaths are very similar to those responsible for deaths in the first few days of life. For example, at least 57 per cent of the registered mortality in the first week among liveborn infants in England and Wales during 1952 was due to, or associated with, immaturity (Table LI, page 96). In the same year 47 per cent of the notified stillbirths weighed $5\frac{1}{2}$ lb. or under, and were therefore immature by the weight criterion.*

The combination of first week infant deaths and stillbirths—perinatal deaths—is thus a crude measure of the loss among all births (live and still) due to environmental factors which acted on the unborn child through the mother, genetic factors, and "obstetric causes" associated with labour and delivery.

Over the main span of infancy (from 7 days to 1 year) the majority of deaths (53 per cent) are attributed to respiratory infections, enteritis, and other diseases, mainly infective, which act directly on the infant, and are usually associated with the kind of conditions to which the infant is exposed in the postnatal environment (Table L, postnatal causes). Infant deaths at one week and over are relatively more sensitive than perinatal deaths to short term fluc-



Trends in infant mortality, 1906-10 to 1952; Total rate (thick line) and rates at different ages (thin lines) per cent of those experienced in 1906-10. Stillbirth trend per cent of rate in 1928-30

tuations in the state of the public health, such as epidemics of communicable disease, and to social conditions which favour the spread of respiratory infections.

Diagram 6 shows the infant mortality rate since 1906, and below it the differential trend of the more important age-components as percentages of the 1906 rates. Stillbirths are shown as percentages of the average rates in 1928-30. The similarity between the trend of stillbirths and of first week deaths on the one hand, and between the trend of deaths from the 7th to the 28th day and the trends after the first month on the other, sufficiently indicate the reasons why these particular combinations have been chosen.

Perinatal deaths together with infant deaths at one week and over, measure the 'loss' among all registered births, live and still, within the first twelve months from birth. They are shown per 1,000 live and stillbirths, separately or combined, in some of the tables. Table XLIX (page 93; right hand side) shows how they varied in the different conurbations and standard regions in 1952. Table LII (page 98) compares the rates experienced by urban and rural aggregates within areal groupings of the standard regions.

A subsequent report will exhibit these rates experienced over the period 1952-53 in county boroughs and administrative counties.

The continuous lines in Diagram 7 show the trends since 1928 of the combined loss from stillbirths and infant deaths, and of the "perinatal" and "infant" components. The percentages by which each component declined between 1948 and 1952 were 2.6 and 34.2 respectively. If this rate of change were to continue without alteration, the rates in 1960 and 1970 might be as follows:

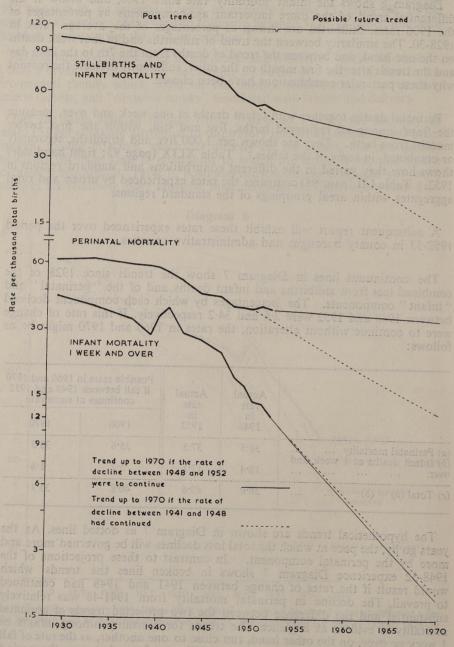
Wholeston of the State of	Actual rate	Actual rate	Possible rates in if fall between continues a	1948 and 1952
	in 1948	in 1952	1960	1970
(a) Perinatal mortality	38.5	37.5	35.6	33.3
(b) Infant deaths at 1 week and over	18.4	12.1	5.2	1.8
$(c) \text{ Total } (a) + (b) \qquad \cdots \qquad \cdots$	56.9	49.6	40.8	35·1

The hypothetical trends are shown in Diagram 7 as dotted lines. As the years go by, the pace at which the total loss declines will be governed more and more by the perinatal component. In contrast to these projections of the 1948-52 experience Diagram 7 shows in broken lines the trends which would result if the rates of change between 1941 and 1948 had continued to prevail. The decline in perinatal mortality from 1941-48 was relatively substantial and the difference between the two projected trends of perinatal mortality is evident at a glance. The trends for mortality among infants of 1 week or over, on the other hand, run close to one another, as the rate of fall over the period 1948-52 was not very different from that over the period 1941-48.

^{* (}Report of the Ministry of Health Part II 1952, p.136., Form LHS 27 (1952) Consolidated) Total notified stillbirths in England and Wales: 15,093. Notified premature stillbirths in England and Wales: 7,027.

Table LIII (page 100) shows the secular trends of infant mortality at various ages, of stillbirth, and of the loss from both combined.

Diagram 7



Late foetal and infant deaths per thousand total births, 1928-30 to 1952, and possible trends up to 1970

Infant Mortality by Cause

Cause analyses of infant mortality are shown for England and Wales by quarters of the year in Table LV (page 102), by sex and age in Table LI and by regional areas in Table LVI (page 104).

The following table indicates the extent to which some of the more important causes contributed to the reduction in infant mortality as between the two years 1949 and 1952.

Cause of Death (and International Classification numbers)		mortality 00 live births 1952	Per cent change between 1949 and 1952
All Causes	3269	2754	——————————————————————————————————————
Total causes mainly of Prenatal and Natal	or orrest	antive grelled	tom show eas
origin including congenital malformations	1897	1792	-6
Immaturity etc. (774, 776)	681	535	—21)
Atelectasis (762)	329	364	+11 >-8
Birth injuries (760, 761)	262	277	+6)
Congenital malformations (750-759)	432	455	pellate out +5-
Erythroblastosis (770)	76	65	-14
Hæmorrhagic diseases (771)	24	27	+13
Attributed to maternal toxæmia (769)	24	26	+8
Ill-defined diseases of early infancy (773)	70	44	—37
Total causes mainly of Postnatal origin	1205	826	—31
Septicæmia, skin infections and sepsis of	remod a	Shapin Sidt	
newborn (053, 690-698, 765-768)	16	18	+13
Meningitis other than tuberculous (057, 340)	39	34	-13
Gastro-enteritis and diarrhœa (571, 764)	266	100	-62
Pneumonia, bronchitis: acute respiratory	GROSS G		
infections (470-502, 763)	635	513	-19
Otitis media and mastoiditis; empyema;	one stice	he same de	tuods sping
pleurisy (391-393, 518, 519)	22	12	-45
Whooping cough; measles (056, 085)	61	22	-64
Tuberculosis (001-019)	23	10	—57
Other causes classified as infective not speci-	00	12	The state of the s
fied above (rem 001-138)	22	13	-41
Asphyxia in cot or elsewhere (E921-E925)	89	75	-16
Lack of care, neglect etc. (E926, E980-E985)	22	17	—23
Other accidents (rem E800-E999)	11 bo	11	Nil
Unclassified (rem 140-795)	153	122	—20
Neoplasms (140-239)	14	14	Nil
manaturity or with marting of immetrative (774	si M. vo	ring delive	ip paratur pr
mmaturity or with mention of immaturity (774, 776, 760:5-773:5)	1030	964	_6
Immaturity alone or primary to diseases other than of	1030	won sit lo	sursidem vac
early infancy (774, 776)	681	535	—21
Immaturity alone or primary to diseases other than of early infancy (774, 776)	349	429	+23
All other causes (760·0-773·0 and remainder)	2239	1790	-20
Lythanio moin allat anostocilat seotramas	1300	dinta vida	Dam See As a
Atelectasis and birth injury (760-762)	591	641	+8
With mention of immaturity (.5)	230	303	+32
Without mention of immaturity (.0)	360	338	-6

The differential trend exhibited between birth injuries and atelectasis on the one hand, and immaturity alone or primary on the other arises in part, and perhaps almost entirely, from variations in certification practice (1951 Text, pages 112-113). The section of the International Classification "Certain Diseases of Early Infancy", to which was assigned 84 per cent of the deaths under 1 week and 80 per cent of the deaths under 28 days, can be cross classified according to whether immaturity was or was not mentioned on the death certificate. In 1952, 65 per cent of the neonatal deaths assigned to this section were reported in association with immaturity, or with immaturity as the only known cause. (The percentage of remaining neonatal deaths with mention of immaturity is unknown but examination of a series of consecutive certificates over 6 months indicates that it is unlikely to exceed 5-8 per cent and that it mainly comprises congenital malformations.)

Taking the two groups together, mortality from birth injuries and atelectasis with mention of immaturity increased by 32 per cent in 1952 as compared with 1949 while mortality without mention of immaturity decreased by 6 per cent over the same period. Much of the increase can be set against the decrease in the death-rate from immaturity alone (I.S.C. Nos. 774-776), which was 21 per cent.

For the "diseases of early infancy" as a whole, deaths with mention of immaturity together with deaths from immaturity alone declined by no more than 6 per cent, while deaths without mention of immaturity declined by 20 per cent.

Erythroblastosis is a condition which has attracted considerable attention in recent years. Mortality from it, which is regarded as preventable, declined by 14 per cent. This disease, however, accounts for little more than 2 per cent of all infant deaths.

The septicæmia and sepsis group, including sepsis of newborn (I.S.C. Nos. 053; 690-698; 765-768), is also responsible for relatively few deaths, but the rate remains about the same despite progress in the field of antibiotics.

There are two major postnatal cause groups—gastro-enteritis, and pneumonia and bronchitis: to the latter may be added upper respiratory infections and influenza. Gastro-enteritis has declined by 62 per cent since 1949, and this substantial reduction has contributed in large measure to the overall decline in mortality after the first week. In the case of pneumonia, bronchitis, and upper respiratory infections, the reduction is less spectacular, being only 19 per cent. Pneumonia in the first 4 weeks taken separately, however, shows an increase of 16 per cent in the 1952 rates over those for 1949: without this particular component, the cause group exhibits a decrease of 27 per cent. Pneumonia of the newborn includes all cases of aspiration pneumonia—for example, those due to fluid inhaled during delivery. It is likely that the rise in this rate reflects an increase in the number of autopsies and a greater clinical interest in the respiratory problems of the newborn.

The main conclusion from this one examination of the separate trends in mortality among postnatal causes is that gastro-enteritis set the pace at which the rate for all postnatal causes declined between the two years 1949 and 1952, so that unless mortality attributed to respiratory infections falls more quickly in the future, the overall decline may on the whole be less impressive than the difference of 30 per cent between 1949 and 1952.

Table XLIX.—Infant Mortality per 1,000 Related Live Births, and combined Stillbirth and Infant Death Rates per 1,000 Total Births, according to Age. England and Wales, Standard Regions and Conurbations, 1952

Hermoniansion disease	of Hewl	SED I	Infa	nt mortali	ty per 1,00	0 related 1	ive births	at various	ages	10	Stillbir	ths and infa	ant deaths otal birth		er 1,000
Standard Regions and Conurbations	Total infant morta-	Neo-	Early	Late neonatal morta-	Post- neonatal morta-	Early n	eonatal riod	Po	ost-neonat period	al 🌃	Still- births	Still- births (late	Still- births	Infant	Still- births
within the standard regions	lity (under 1 year)	natal morta- lity (under 4 weeks)	neonatal morta- lity (under 1 week)		lity (4 weeks and under	Under 1 day	1 day and under 1 week	and under	3 months and under 6 months	and under	plus infant deaths under 1 year	fœtal deaths at or over 28 weeks gesta- tion)	plus infant deaths under 1 week	deaths at 1 week and over	plus infant deaths under 4 weeks
ENGLAND AND WALES	27.6	18.3	15.2	3.2	9.3	7.6	7.6	3.7	3.0	2.6	49.6	22.7	37.5	12.1	40.6
Standard Regions: NORTH OF ENGLAND Northern	32·1	20·2	15·8	4·4	11·9	7·6	8·2	4·4	4·1	3·4	56·2	24·9	40·3	15·8	44·6
	29·9	18·9	15·8	3·1	11·0	8·3	7·6	4·4	3·6	2·9	53·1	23·9	39·4	13·7	42·4
	32·4	21·1	17·1	4·0	11·3	8·6	8·6	4·6	3·6	3·0	56·7	25·2	41·9	14·8	45·8
MIDLANDS AND EASTERN North Midland Midland Eastern North Midland	28·5	18·9	15·1	3·8	9·6	7·5	7·5	3·5	3·3	2·8	50·3	22·5	37·2	13·1	41·0
	28·8	18·6	15·4	3·2	10·2	8·0	7·5	4·0	3·1	3·1	50·8	22·7	37·8	13·0	40·9
	23·3	16·2	13·7	2·5	7·1	6·5	7·2	2·7	2·3	2·1	43·9	21·1	34·6	9·3	37·0
SOUTH OF ENGLAND London and South Eastern Southern South Western	22·6	15·7	13·4	2·3	6·9	6·8	6·6	2·8	2·1	1.9	42·1	20·0	33·1	9·0	35·3
	23·4	16·3	13·6	2·7	7·1	6·7	6·9	3·0	2·2	1.9	42·9	20·0	33·3	9·6	36·0
	25·6	18·8	15·9	2·9	6·8	7·6	8·2	2·2	2·3	2.3	46·0	21·0	36·5	9·5	39·4
WALES Wales I	33·3	20·8	17·1	3·7	12·5	8·1	9·0	5·7	3·5	3·3	60·3	28·0	44·6	15·7	48·1
	33·7	20·6	17·0	3·6	13·1	8·3	8·7	6·1	3·7	3·4	61·3	28·6	45·1	16·2	48·6
	32·4	21·2	17·6	3·6	11·2	7·6	10·0	4·9	3·1	3·2	57·8	26·3	43·4	14·4	46·9
Conurbations within Standard Regions: Tyneside conurbation	33·3	21·2	16·5	4·7	12·1	7·7	8·8	4·3	4·5	3·2	59·8	27·6	43·6	16·3	48·2
	31·7	19·8	15·6	4·2	11·9	7·5	8·1	4·5	3·9	3·5	54·8	24·0	39·1	15·7	43·3
West Yorkshire conurbation Rest of East and West Riding region	29·4	18·4	16·1	2·3	11·0	9·1	7·0	4·3	3·5	3·2	53·1	24·5	40·2	12·9	42·4
	30·3	19·3	15·6	3·7	11·0	7·7	8·0	4·5	3·7	2·8	53·1	23·6	38·8	14·3	42·3
S.E. Lancashire conurbation	32·3	20·6	17·4	3·2	11·7	9·0	8·4	5·0	3·9	2·8	57·2	25·8	42·7	14·5	45·8
	34·5	22·3	18·0	4·3	12·2	9·2	8·8	4·9	4·0	3·3	58·5	24·9	42·4	16·1	46·7
	31·0	20·8	16·3	4·5	10·2	7·8	8·5	4·0	3·1	3·0	55·0	24·8	40·7	14·3	45·1
West Midlands conurbation	29·2 28·4	18·8 18·4	15·5 15·4	3·3 3·0	10·4 10·0	8·2 7·8	7·3 7·6	4.0	3·4 2·8	3·0 3·1	50·2 51·4	21·7 23·7	36·9 38·6	13·3 12·7	40·1 41·7
Greater London conurbation	22·1	15·3	13·0	2·3	6·8	6·7	6·3	2·8	2·2	1·8	41·3	19·7	32·4	8·9	34·6
	24·1	17·0	14·6	2·4	7·1	7·1	7·5	2·8	1·9	2·4	44·8	21·2	35·5	9·3	37·8

Table L.—Principal Causes of Death Under One Year, arranged in ætiological groups: (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. England and Wales, 1952

Ætiological	Cause of Death	Number of	Age	distribution passign	per cent of t	otal infant d	eaths	Cause	e distribution	n per 1,000 in each age-	total infant d	eaths
Group	(and International Classification numbers)		Infant	Ne	onatal mort	ality	Post- neonatal	Infant	Ne	onatal mort	ality	Post-
Comerbations Translation Translation	Storia Statebard Regions 333 1	(under 1 year)	mortality (under 1 year)	(Under 4 weeks)	Early (under 1 week)	Late (1 week and under 4 weeks)	mortality (4 weeks and under 1 year)	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)
ALL CAUSES	All causes	18,555	100	66	55	11	34	1,000	1,000	1,000	1,000	1,000
Southern	Congenital malformations (750-759)	3,066	100	64	41	23	36	165	159	122	221	100
ROBINED	Total causes mainly of prenatal and natal origin other than congenital			1 2 m			30	103	139	122	331	180
e entraile	malformations	9,008	100	97	91	7	3	487	713	800	283	38
Prenatal	Immaturity alone, or primary to diseases other than of early infancy (774, 776)	3,602	100	98	91	7	2	195	287	210	440	1 8 m
and Natal Group	Attributed to maternal toxæmia (769)	174	100	99	94	6	,	9	MA MA	319	119	13
(including congenital malforma-	Ill-defined diseases of early infancy (773)	295	100	89	77	12	11	16	21	16	5 17	5
tions)	Postnatal asphyxia and atelectasis (762)	2,452	100	98	92	5	2	133	195	222	62	10
	Intracranial and spinal injury at birth (760)	1,516	100	98	91	7	2	82	120	136	47	5
Standard within	Other birth injury (including maternal antepartum hæmorrhage) (761)	353	100	99	97	1	1	19	28	34		
	Erythroblastosis (770)	435	100	95	85	10	5	23	34		2	1
	Hæmorrhagic disease of newborn (771)	181	100	97	84	13	3	10	14	36 15	20	3

Total causes mainly of postnatal origin 5,567 Gastro-enteritis (including diarrhœa of newborn) (571, 764) Pneumonia and bronchitis (490-493, 763: 500-502) 3,384 Causes classified as infective (001-138): others mainly infective in origin* Whooping cough; measles (056, 085) Acute upper respiratory infections and influenza (470-475; 480-483) Otitis media and mastoiditis; empy-ema; pleurisy (391-393; 518, 519) Septicæmia; skin and subcutaneous tissue infections; sepsis of newborn (053, 690-698, 765-768) ... Tuberculosis other than tuberculous meningitis (001-008: 011-019) ... Postnatal Group Tuberculous meningitis (010) Accidental mechanical suffocation from vomit, food, foreign body, or in cot (E921-E925) ... Lack of care; neglect (including foundlings); infanticide (E926; Total causes remaining ... Neoplasms (140-239) UNCLASSIFIED Other remaining causes

Table LI.—Principal Causes of Death Under One Year and in the Neonatal, Post-neonatal and other Age Periods, by Sex, per 1,000 related live births. England and Wales, 1952

		Total			Infant Mort	ality per 1,00	00 related liv	ve births at v	arious ages		
Ætiological Group	Cause of death (and International Classification numbers)	Infant mortality (under	Neonatal	Early neonatal	Late neonatal	Post-neo- natal mor-	Early neon	natal period	Post	-neonatal pe	eriod
	The the control of th	1 year)	mortality (under 4 weeks)	mortality (under 1 week)	mortality (1 week and under 4 weeks)	tality (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	All Causes $\left\{ egin{array}{llllllllllllllllllllllllllllllllllll$	30·89 24·12	20·65 15·86	17·23 12·96	3·42 2·90	10·24 8·26	8·30 6·78	8·93 6·18	4·18 3·17	3·30 2·60	2·76 2·49
	Congenital malformations (750-759) $\dots \begin{cases} M. \\ F. \end{cases}$	4·62 4·49	2·91 2·88	1·88 1·81	1·03 1·07	1·71 1·61	0·69 0·79	1·19 1·02	0·91 0·73	0·43 0·45	0·37 0·43
	Total causes mainly of prenatal and natal origin other than congenital malformations { F.	15·44 11·22	15·02 10·93	14·05 10·10	0·97 0·83	0·42 0·29	7·23 5·64	6·82 4·46	0·33 0·22	0·05 0·04	0·04 0·03
Prenatal and Natal Group (including	Immaturity alone, or primary to diseases other than of early infancy (774,776) { F.	6·01 4·66	5·87 4·55	5·46 4·20	0·41 0·35	0·14 0·11	3·19 2·46	2·27 1·74	0·13 0·10	0·01 0·01	_
congenital malforma- tions)	Attributed to maternal toxæmia (769) $\begin{cases} M. \\ F. \end{cases}$	0·26 0·26	0·26 0·26	0·25 0·24	0·01 0·02	0.00	0·11 0·15	0·13 0·09	0.00	_	_
tionsy	Ill-defined diseases of early infancy (773) $\begin{cases} M. \\ F. \end{cases}$	0·51 0·36	0·46 0·32	0·39 0·28	0·07 0·04	0·05 0·04	0·19 0·16	0·20 0·12	0·04 0·03	0.00	0·01 0·01
	Postnatal asphyxia and atelectasis (762) { M. F.	4·25 3·00	4·15 2·92	3·94 2·74	0·21 0·18	0·10 0·08	2·05 1·52	1·90 1·22	0·07 0·04	0·02 0·03	0·01 0·01
	Intracranial and spinal injury at birth { M. (760) { F.	2·85 1·63	2·77 1·61	2·60 1·48	0·17 0·13	0·08 0·02	1·10 0·68	1·50 0·80	0·05 0·02	0.01	0·02 0·00
	Other birth injury (including maternal Amantepartum hæmorrhage) (761) \ F.	0·59 0·45	0·58 0·45	0·58 0·44	0·00 0·01	0·01 0·00	0·38 0·34	0·19 0·10	0·01 0·00	±]	464
	Erythroblastosis (770) $\begin{Bmatrix} M. \\ F. \end{Bmatrix}$	0·69 0·60	0·65 0·58	0·58 0·53	0·07 0·05	0·04 0·02	0·19 0·28	0·39 0·24	0·02 0·01	0·01 0·00	0·01 0·01
	Hæmorrhagic disease of newborn (771) $\begin{cases} M. \\ F. \end{cases}$	0·30 0·24	0·29 0·23	0·26 0·19	0·03 0·04	0·01 0·01	0·02 0·03	0·24 0·16	0·01 0·01	_	_

Will Figure Will Jugar Rural areas	Total causes mainly of postnatal origin {M. F.	9·25 7·29	2·23 1·71	0·98 0·80	1·25 0·91	7·02 5·58	0·24 0·23	0·74 0·57	2·61 2·02	2·50 1·87	1·91 1·69
ordinaeni	Gastro-enteritis (including diarrhæa of hewborn) (571, 764) {M.	1·15 0·87	0·12 0·08	0.01	0·11 0·08	1·03 0·79	0.00	0.00	0·38 0·30	0·36 0·27	0·29 0·22
	Pneumonia and bronchitis (490-493, 763: {M. 500-502)	5·66 4·37	1·59 1·19	0·73 0·55	0·86 0·64	4·07 3·18	0·05 0·06	0·68 0·48	1·57 1·25	1·46 1·04	1·04 0·89
Postnatal Group	Causes classified as infective (001-138); {M. others mainly infective in origin* {F.	1·30 1·11	0·23 0·19	0·05 0·07	0·18 0·12	1·07 0·92	0.01	0·04 0·06	0·33 0·21	0 31 0·26	0·43 0·45
	Accidental mechanical suffocation from vomit, food, foreign body, or in cot (E921-E925)	0·88 0·63	0·11 0·08	0·03 0·02	0.08 0.06	0·77 0·55	0·01 0·01	0·02 0·01	0·32 0·24	0·34 0·25	0.11
	Lack of care; neglect (including found-lings); infanticide (E926, E980-E985) { F.	0·17 0·18	0·16 0·14	0·16 0·14	0.00	0·01 0·04	0·16 0·13	0.01	0.00	0·01 0·01	0.00
Astronomical and	Other accidental causes (remainder {M. E800-E999) {F.	0·10 0·12	0·02 0·02	0·01 0·02	0.01	0·08 0·10	0.01	0.01	0·01 0·02	0.03	0.0.
Unclassi- FIED	Total causes remaining $\left\{ egin{array}{lll} M. & & & \left\{ egin{array}{lll} M. & & & \left\{ egin{array}{lll} M. & & & \left\{ egin{array}{lll} M. & & & & \left\{ h. & & & & & \left\{ h. &$	1·58 1·12	0·50 0·35	0·32 0·25	0·18 0·10	1·08 0·77	0·14 0·12	0·17 0·13	0·33 0·20	0·33 0·25	0·4 0·3
mmaturity, c 760·5-773	or with mention of immaturity (774, 776;	9.65	9*48	8.63	0.85	0.17	4.61	4.02	0.16	0.01	
Immaturity early infar	alone, or primary to disease other than of ncy (774, 776)	5.36	5.53	4.85	0.38	0.13	2.84	2.01	0.12	0.01	
Immaturity (760·5-773	associated with diseases of early infancy	4.29	4.25	3.78	0.47	0.04	1.78	2.00	0.04	0.00	
all other cause	es (760·0-773·0 and remainder)	17.92	8.84	6.52	2:32	9.08	2.95	3.57	3.53	2.95	2.6

Table LII.—Infant Mortality per 1,000 Related Live Births, and combined Stillbirth and Infant Death Rates per 1,000 Total Births, according to Age. England and Wales, and Population Density Aggregates within Regional Groups, 1952

			Infa	nt mortali	ty per 1,00	0 related 1	ive births,	at various	ages		Stillbirt	hs and infa	nt deaths tal births		er 1,000
Regional groups and Population	Total infant morta-	Neo-	Early	Late neonatal morta-	morta-	Early ne	eonatal riod	Po	ost-neonat period	al	Still- births	Still- births (late	Still- births	Infant	Still- births
Density Aggregates	lity (under 1 year)	natal morta- lity (under 4 weeks)	neonatal morta- lity (under 1 week)	lity (1 week and under 4 weeks)	lity (4 weeks and under 1 year)	Under 1 day	1 day and under 1 week	and under	3 months and under 6 months	and under	plus infant deaths under 1 year	fœtal deaths at or over 28 weeks gesta- tion)	plus infant deaths under 1 week	deaths at 1 week and over	plus infant deaths under 4 weeks
ENGLAND AND WALES	27.6	18.3	15.2	3.2	9.3	7.6	7.6	3.7	3.0	2.6	49.6	22.7	37.5	12.1	40.6
Conurbations	27.2	17.9	15.0	2.9	9.3	7.8	7.2	3.7	3.1	2.5	48.8	22.3	36.9	11.8	39.8
Other urban areas: with populations of 100,000 and over with populations of 50,000 to 100,000 with populations of under 50,000	28·5 28·9 28·5	18·5 19·1 18·8	15·1 15·5 15·4	3·4 3·7 3·4	10·0 9·8 9·7	7·1 7·8 7·4	8·0 7·6 8·0	4·3 3·6 3·6	3·2 3·4 3·1	2·5 2·7 3·0	50·8 51·9 50·9	23·0 23·7 23·2	37·7 38·8 38·2	13·1 13·1 12·7	41·1 42·4 41·5
Rural areas	26.4	18.2	15-1	3.1	8.2	7.5	7.6	3.3	2.4	2.5	48:0	22.2	37.0	11.0	40.0
NORTH OF ENGLAND (Northern, E. and W. Ridings, N. Western)	31.6	20.3	16.4	3.8	11:3	8-2	8.2	4.5	3.7	3·1	55;5	24.8	40.8	14.8	44.5
Conurbations (Tyneside, W. Yorks., S.E. Lancs., Merseyside	32.3	20.6	17.1	3.5	11:7	8.9	8.2	4.7	3.9	3.1	56.9	25.5	42.1	14.7	45.5
Other urban areas: with populations of 100,000 and over with populations of 50,000 to 100,000 with populations of under 50,000	31·6 33·1 30·7	19·6 21·2 19·6	15·5 16·6 15·7	4·1 4·6 4·0	12·0 11·9 11·1	6·7 8·3 7·8	8·8 8·3 7·9	5·4 4·8 3·8	3·7 4·1 3·8	2·9 3·0 3·4	53·9 57·6 54·9	23·1 25·4 25·1	38·2 41·6 40·3	15·7 16·0 14·6	42·3 46·1 44·2
Rural areas one convex depoix of the	29.6	20.1	15.9	4.2	9.5	8.0	7.9	3.9	2.7	2.9	51.6	22.8	38.3	13.3	42-4

1269 724 18 36 4		3.4			20 2 3 to				31 1					19-3	
MIDLANDS AND EASTERN (N. Midland, Midland, Eastern)	27-2	18.0	14.8	3.2	9.2	7.4	7.4	3.5	2.9	2.7	48.7	22.2	36.7	12.0	39.8
Conurbation (West Midlands)	29.2	18.8	15.5	3.3	10.4	8.2	7.3	4.0	3.4	3.0	50.2	21.7	36.9	13.3	40.1
Other urban areas: with populations of 100,000 and over with populations of 50,000 to 100,000 with populations of under 50,000	25·6 28·0 27·7	17·5 18·9 18·5	14·5 15·5 15·2	3·0 3·5 3·3	8·1 9·1 9·2	7·2 7·5 7·3	7·3 8·0 7·9	3·9 3·0 3·3	3·1 3·3 2·7	2·2 2·7 3·2	48·1 50·7 49·4	22·1 23·4 22·4	36·3 38·5 37·2	11·8 12·2 12·2	39·2 41·9 40·5
Rural areas	25.3	17.1	14.1	3.1	8.2	7.2	6.9	3.2	2.5	2.5	46.8	22.0	35.7	11.0	38.8
SOUTH OF ENGLAND	23.3	16.4	13.9	2.5	6.9	7'0	6.9	2.7	2.2	2.0	43.0	20.2	33.8	9.2	36.2
Conurbation (Greater London)	22.1	15.3	13.0	2.3	6.8	6.7	6.3	2.8	2.2	1.8	41.3	19.7	32.4	8'9	34.6
Other urban areas: with populations of 100,000 and over with populations of 50,000 to 100,000 with populations of under 50,000	25·0 24·2 24·9	17·4 16·9 17·6	14·1 14·0 14·9	3·3 2·8 2·7	7·6 7·3 7·3	7·1 7·6 6·8	7·1 6·4 8·0	2·8 2·8 2·7	2·7 2·5 2·2	2·1 2·1 2·4	47·0 44·6 44·4	22·7 20·9 20·0	36·5 34·7 34·6	10·6 10·0 9·8	39·7 37·4 37·3
Rural areas	23.7	17-4	15.1	2.3	6.3	7.4	7.8	2.5	1.8	2.0	43.5	20.3	35.1	8.4	37-3
WALES	33.3	20.8	17:1	3.7	12.5	8.1	9.0	5.7	3.5	3.3	60.3	28.0	44.6	15.7	48.1
Urban areas with populations of	V. 12	300	107	19.0	1990	1000		0,							
100,000 and over Urban areas with populations of	33.2	21.0	17.8	3.2	12.2	8.0	9.8	6.3	3.0	2.9	58.6	26.3	43.5	15.0	46.7
50,000 to 100,000	46.3	22.1	18.9	3.2	24-2	9.5	9.5	8.4	9.5	6.3	89-2	45.1	63.1	26.1	66-1
50,000	32.9	20.1	16.6	3.6	12.8	8.2	8.4	5.9	3.8	3.1	59.6	27.7	43.8	15.8	47.3
Rural areas	33.1	21.4	17.3	4.1	11.7	8.0	9.3	4.9	3.0	3.8	60.6	28.6	45.3	15.3	49.3

Table Lill. -Secular Trend of Stillbirths per 1,000 total births, 1928-1952, and of Beatles in the Medical, Post-neonatal and other Ape Periods under One Year per 1,000 five harby, 1908-1952, England and Water

Table LIII.—Secular Trend of Stillbirths per 1,000 total births, 1928-1952, and of Deaths in the Neonatal, Post-neonatal and other Age Periods under One Year per 1,000 live births, 1906-1952. England and Wales

		1990			Infant mo	ortality per	1,000 live	births,* at v	arious ages			Stillbirt	ths and infan	t deaths—R	ates per 1,00	00 total
(Quinquennium and year	Total infant mortality		Early	Late neonatal	Post- neonatal		eonatal	Post-n	eonatal peri	iod	Stillbirths	Stillbirths	Stillbirths plus infant	Infant	Stillbirths plus infant
	100,000 sed 10080 sed 20,000 so 10 10,000 so 10 20,000 so 10	(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	plus infant deaths under 1 year	(late foetal deaths, at or over 28 weeks gestation)	deaths under 1 week— "Perinatal Mortality"	deaths at 1 week and over	deaths under 4 weeks
- 11	1906–1910 1911–1915 1916–1920 1921–1925 1926–1930	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		0. =			
	1931–1935 1936–1940 1941–1945 1946–1950	61·9 55·3 49·8 36·3	31·4 29·2 26·0 21·1	22·4 21·5 18·7 16·2	9·0 7·7 7·2 4·9	30·5 26·0 23·8 15·2	10·7 10·4 9·3 7·9	11·7 11·2 9·5 8·4	9.9 8.8 8.9 5.8	8·5 7·8 7·7 5·0	12·1 9·4 7·2 4·4		サニー ・		4 = 54 5 = 63	
33	1929 1930	73·9 60·2	32·8 30·9	22.2	10·5 8·9	41·1 29·3	10·4 10·4	11·9 11·6	11.5	10·6 7·9	19·0 11·7	111·4 98·3	40·0 40·8	61·4 61·9	50·0 36·4	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 11·8	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	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
	1941 1942 1943 1944 1945	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
IV.	1946 1947 1948 1949 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 56.9 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	29·7 27·6	18·8 18·3	15·5 15·2	3·3 3·2	10·9 9·3	7·5 7·6	8·0 7·6	4·1 3·7	3·6 3·0	3·2 2·6	52·2 49·6	23·0 22·7	38·2 37·5	14·0 12·1	41·5 40·6

^{*} Rates based on related live births from 1926 onwards.
† 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.—Secular Trend of Stillbirths per 1,000 total births, and of Deaths in the Neonatal and Post-neonatal Periods per 1,000 related live births. England and Wales; Standard Regions, 1948 to 1952

	Standard Regions			in eac					n 1949 of rate		
8 8 8 8	Standard Regions	1948	1949	1950	1951	1952	1948	1949	1950	1951	1952
	ENGLAND AND WALES	23.2	22.7	22.6	23.0	22.7	100	98	97	99	98
直等基础	NORTH OF ENGLAND	25.5	24.7	24.3	24.8	24.8	100	97	95	97	97
	Northern East and West Ridings North Western	25·2 24·2 26·5	24·6 23·5 25·5	25·8 22·9 24·4	24·6 24·2 25·2	24·9 23·9 25·2	100 100 100	98 97 96	102 95 92	98 100 95	99 99 95
STILLBIRTHS (at or over 28	MIDLANDS AND EAST	23.1	22-2	22.6	23-1	22.2	100	96	98	100	96
weeks gestation per 1,000 live and stillbirths	North Midland Midland Eastern	23·9 23·5 21·5	22·2 23·1 20·9	23·8 20·6	23·1 23·9 21·9	22·5 22·7 21·1	100 100 100	93 98 97	96 101 96	97 102 102	94 97 98
2 2 2 2	SOUTH OF ENGLAND	20.5	20.2	20.1	20.9	20.2	100	99	98	102	99
0 0 0 -	London and South Eastern Southern South Western	19·9 20·9 22·4	19·9 19·4 22·0	19·6 18·9 22·5	20·8 19·4 22·3	20·0 20·0 21·0	100 100 100	100 93 98	98 90 100	105 93 100	101 96 94
. 5 0 0 %	WALES	26.8	28-2	27-2	26.4	28.0	100	105	101	99	104
6 9 8 6	ENGLAND AND WALES	19.7	19.3	18.5	18.8	18.3	100	98	94	95	93
0000	NORTH OF ENGLAND	21.8	21.2	20.2	20.6	20.3	100	97	93	94	93
	Northern East and West Ridings North Western	21·3 20·7 22·6	22·0 20·6 21·3	20·8 19·5 20·3	21·6 19·1 20·9	20·2 18·9 21·1	100 100 100	103 100 94	98 94 90	101 92 92	95 91 93
NEONATAL MORTALITY	MIDLANDS AND EAST	20.1	18.4	18.4	18.5	18.0	100	92	92	92	90
per 1,000 related live births	North Midland Midland Eastern	21·5 21·1 16·9	18·8 19·6 16·2	18·9 19·4 16·3	17·6 20·3 16·8	18·9 18·6 16·2	100 100 100	87 93 96	88 92 96	82 96 99	88 88 96
· · · · · · · · · · · · · · · · · · ·	SOUTH OF ENGLAND	17.1	17.4	16.5	17.0	16.4	100	102	96	99	96
	London and South Eastern Southern South Western	16·4 18·0 18·8	16·8 17·6 19·7	15·9 16·7 18·5	16·7 16·9 18·2	15·7 16·3 18·8	100 100 100	102 98 105	97 93 98	102 94 97	96 91 100
- 5	WALES	22.5	22.9	21.6	21.8	20.8	100	102	96	97	92
	ENGLAND AND WALES	14.2	13.0	11.1	10.9	9.3	100	92	78	76	65
	NORTH OF ENGLAND	18.9	17.8	14.6	13.8	11.3	100	94	77	73	60
	Northern East and West Ridings North Western	20·5 17·3 19·2	19·9 15·4 18·1	16·9 13·3 14·2	15·5 13·8 13·0	11·9 11·0 11·3	100 100 100	97 89 94	82 77 74	75 80 68	58 64 59
POST- NEONATAL	MIDLANDS AND EAST	13.5	12.4	10.6	10.5	9.2	100	92	79	78	68
MORTALITY per 1,000 related live births	North Midland Midland Eastern	15·6 14·7 9·1	13·8 13·8 8·6	11.7 11.8 7.6	11·1 11·3 8·6	9·6 10·2 7·1	100 100 100	88 94 95	75 80 84	71 77 93	62 69 78
	SOUTH OF ENGLAND	10.0	8.8	7.8	7.8	6.9	100	88	78	78	69
-	London and South Eastern Southern South Western	10·5 8·8 9·5	8·8 8·6 9·1	7·8 7·9 7·9	7·4 8·3 8·3	6·9 7·1 6·8	100 100 100	84 98 96	74 90 83	70 94 88	66 81 72
	WALES	16.8	16.4	13.9	14.3	12.5	100	98	83	86	74

Table LV.—Stillbirths per 1,000 Total Births, Infant Deaths and Deaths in the Early Neonatal, Late Neonatal and Post-neonatal Periods per 1,000 Related Live Births, and Death Rates from the Principal Causes of Infant Mortality; Comparison of Annual and Quarterly Rates. England and Wales, 1952

74-1-1-1	Cause of Death (and International Classification numbers) Rates (per 1,00 related	Annual Rates	(Per	Quarterl 1,000 live bi	ly Rates rth occurrer	ices)*	Quart	erly Rates p Ra	er cent of A	nnual
Ætiological Group		(per 1,000 related 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	extal deaths at or over 28 weeks gestation)	22.7	23.7	22:3	21.5	23.3	104	98	95	103
Early Neonatal I	Deaths (infant deaths at ages under 1 week)	15.2	15.7	14.6	14.3	16.0	103	96	94	105
Late Neonatal D	eaths (infant deaths at ages 1 week and under 4 weeks)	3.2	4.0	2.7	2.6	3.3	125	84	81	103
	eaths (infant deaths at ages 4 weeks and under 1 year)	9.3	13.0	7.5	6.0	10.5	140	81	65	113
Infant deaths (tot	tal under 1 year)	27.6	32.7	24.8	23.0	29.8	118	90	83	108
	Congenital malformations (750-759)	4.6	4.7	4.4	4.2	4.9	102	96	91	107
I I I	Total causes mainly of prenatal and natal origin other than congenital malformations	13.4	14-2	12.7	12.4	14.3	106	95	93	107
Prenatal and Natal	Immaturity alone, or primary to diseases other than of early infancy (774, 776)	5.4	5.5	5.2	4.9	5.9	102	96	91	109
Group (including	Attributed to maternal toxæmia (769)	0.3	0.4	0.2	0.2	0.2	133	67	67	67
congenital	Ill-defined diseases of early infancy (773)	0.4	0.5	0.4	0.4	0.5	125	100	100	125
manormations	Postnatal asphyxia and atelectasis (762)	3.7	4.1	3.3	3.4	3.8	111	89	92	103
The state of	Intracranial and spinal injury at birth (760)	2.2	2.3	2.1	2.3	2.4	105	95	105	109
	Other birth injury (including maternal antepartum hæmorrhage) (761)	0.5	0.5	0.5	0.5	0.5	100	100	100	100
194	Erythroblastosis (770)	0.7	0.6	0.6	0.6	0.8	86	86	86	114
	Hæmorrhagic disease of newborn (771)	0.3	0.3	0.3	0.2	0.3	100	100	67	100

	Tobercolose, other than colorections memo- (10	1.02	1 6.0	1.0					
	(627-65) (627-65)	0.2	0,1	÷ 0-1	0-4	100	100	20		300
	Outs redar and masterious, sureyette, platesy (391-373, 518, 519)	0.2	0-1	0.1	7.0	100	200 :			100
	Appen apper responsion afficient and industrial (september 1980-193)	0.3	1 0-1	101	1:0	100	300	100	1916	100
Paninnia,	Total causes mainly of postnatal origin	8.3	12:0	6.5	4.8	9.8	145	78	58	118
	Gastro-enteritis (including diarrhœa of newborn) (571, 764)	1:0	1:5	0.8	0.6	1:1	150	80	60	110
Postnatal	Pneumonia and bronchitis (490-493, 763; 500-502)	5.0	7.7	3.6	2.7	6-1	154	72	54	122
Group	Causes classified as infective (001-138): others mainly infective in origin (340; 391-393; 470-483; 518, 519; 690-698; 765-768)	1.2	1.5	1.1	0.8	1.4	125	92	67	117
	Accidental mechanical suffocation from vomit, food, foreign body, or in cot (E921-E925)	0.8	1.0	0.6	0.5	0.9	125	75	63	113
	Lack of care; neglect (including foundlings); infanticide (E926; E980-E985)	0.2	0.2	0.2	0.1	0.2	100	100	50	100
	Other accidental causes (remainder E800-E999)	0.1	0.1	0.1	0.1	0.1	100	100	100	100
ALMA PARAMA	2 (1973 O) (47.33 (1973 3.34 4.30) (1973 3.34 4.30) (1973 3.34 4.30)			(1.5)	19.7			100	CV	100
Unclassified	Total causes remaining	1.4	1.7	1.2	1.6	0.8	121	86	114	57
Immaturity, or	with mention of immaturity (774; 776; 760·5-773·5)	9:7	10.1	9.0	8.6	10.6	104	93	89	109
Immaturity al	one, or primary to diseases other than of early infancy (774, 776)	5.4	5.5	5.2	4.9	5.9	102	96	91	109
Immaturity as	sociated with diseases of early infancy (760-5-773-5)	4.3	4.6	3.8	4.0	4.7	107	88	93	109
All other causes	(760·0-773·0 and remainder)	17-9	22.5	15.8	14.4	19.3	126	88	80	108

^{*} Stillbirth rates are per 1,000 total births. Infant mortality rates from all causes are per 1,000 related live births

Table LVI.—Principal Causes of Death Under One Year; Death Rates per 1,000 Related Live Births in England and Wales and Four Regional Groups, 1952, showing the regional rates as percentages of corresponding national rates

Ætiological	Cause of Death	Infai	nt Mortality	Rates per 1, births	000 related li	ive	Regio	nal Rates pe	r cent of En	gland and W	ales
Group	(and International Classification numbers)	England and Wales	North of England	Midland and East	South of England	Wales	England and Wales	North of England	Midland and East	South of England	Wales
ALL CAUSES	All Causes	27.6	31.6	27.2	23.3	33.3	100	114	99	84	121 \(\)\
Production of St.	Congenital malformations (750-759)	4.6	4.9	4.5	4.2	4.9	100	107	98	°91	107
	Total causes mainly of prenatal and natal origin other than congenital malformations	13-4	14:8	13.0	12.0	15.7	100	110	97	90	117
Prenatal and Natal Group (including congenital malformations)	Immaturity alone, or primary to diseases other than of early infancy (774, 776)	5·4 0·3 0·4 3·7 2·2 0·5 0·7 0·3	6·4 0·3 0·5 3·8 2·4 0·6 0·6 0·3	5·0 0·3 0·4 3·5 2·3 0·5 0·7 0·3	4·5 0·2 0·3 3·6 2·1 0·5 0·7 0·2	6·4 0·5 1·1 3·6 2·4 0·6 0·8 0·3	100 100 100 100 100 100 100 100	119 100 125 103 109 120 86 100	93 100 100 95 105 100 100	83 67 75 97 95 100 100 67	119 167 275 97 109 120 114 100
	Total causes mainly of postnatal origin	8.3	10.4	8.3	6.0	10.7	100	125	100	72	129
Postnatal Group	Gastro-enteritis (including diarrhœa of newborn) (571, 764) Pneumonia and bronchitis (490-493, 763; 500-502) Causes classified as infective (001-138); others mainly infective in origin * Whooping cough; measles (056, 085) Acute upper respiratory infections and influenza (470-475, 480-483) Otitis media and mastoiditis, empyema, pleurisy (391-393, 518, 519) Septicæmia, skin and subcutaneous tissue infections, sepsis of newborn (053, 690-698, 765-768) Tuberculosis, other than tuberculous menin-	1.0 5.0 1.2 0.2 0.1 0.1	1·2 6·6 1·5 0·3 0·2 0·2	1·1 4·9 1·1 0·2 0·1 0·1	0.6 3.5 0.9 0.2 0.1 0.1	1.7 6.1 1.5 0.2 0.1 0.1	100 100 100 100 100 100	120 132 125 150 200 200	110 98 92 100 100 100	60 70 75 100 100 100	170 122 125 100 100 100

Imma (7 Imma	rurity alone, or primary to dis. other than of early infancy (74, 776) urity associated with diseases of early infancy (760.5-773.5)	5·4 4·3	6.4	5·0 4·3	4·5 4·0	6·4 5·1	100	119 102	93	83	119 119
Immatu	ity, or with mention of immaturity (774; 776; 760·5-773·5)	9.7	10.9	9.3	8.5	11.4	100	112	96	88	118
Unclas	Neoplasms (140-239)	0·1 1·2	0·1 1·4	0·1 1·2	0·1 0·9	0·1 2·0	100 100	100 117	100 100	100 75	100 167
	Total causes remaining	1.4	1.5	1-4	1.1	2.1	100	107	100	79	150
	Lack of care, neglect (including foundlings), infanticide (E926, E980-E985) Other accidental causes (remainder E800-E999)	0·2 0·1	0·1 0·1	0·3 0·1	0·2 0·1	0·2 0·1	100 100	50 100	150 100	100	100
	above (remainder 001-138) Accidental mechanical suffocation from vomit, food, foreign body, or in cot (E921-E925)	0.8	0.8	0.9	0.6	1.1	100	100	113	75	138
	coccal meningitis (057, 340)	0.3	0.4	0.3	0·3 0·1	0.3	100	133	100	100	200
	Tuberculous meningitis (010)	0.1	0.1	0.1	0.0	0.1	100	100	100	0	100

^{* 340, 391-393, 470-483, 518, 519, 690-698, 765-768.}

Table LVII.—Secular Trend of Total and Illegitimate Stillbirths per 1,000 total births, and of Total and Illegitimate Deaths in Early Neonatal, Late Neonatal and Post-neonatal Periods per 1,000 related live births. England and Wales, 1936-1939 and 1940 to 1952

material and the property of t	* 310 301-301	1936 to 1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	195
Janzoneuries Ab edder can	Stillbirths	38.8	37·2 96	34.8	33·2 86	30·1 78	27·6 71	27·6 71	27·2 70	24.1	23.2	22·7 59	22·6 58	23.0	22:
All Infants	Early neonatal deaths Annual rate (Under 1 week) per cent of 1936-39	21·6 100	21·3 99	20·7 96	19·6 91	18·3 85	17·5 81	18·0 83	17·8 82	16·5 76	15.6	15·6 72	15.2	15·5 72	15
	Late neonatal deaths Annual rate	7·6 100	8·3 109	8·3 109	7·7 101	6.9	6.9	6.8	6·7 88	6.2	4.1	3.7	3·3 43	3.3	3.2
Uncessure	Post-neonatal deaths Annual rate (4 weeks and under 1 year) per cent of 1936-39	25·8 100	27·2 105	31·1 121	23.4	23.9	21.1	21·3 83	18·4 71	18·6 72	14.2	13·0 50	11.1	10.9	9.
	Stillbirths Annual rate per cent of 1936–39	49.6	47·6 96	45·8 92	40.8	37·5 76	34.3	31·5 64	33·2 67	30.6	31·6 64	29.5	29·1 59	31·6 64	29.
Illegitimate Infants	Early neonatal deaths	34·4 100	31·2 91	29·8 87	30·0 87	27·0 78	25·2 73	24.3	23.7	23.5	22.0	24.9	21.4	21.4	21.
Pastasta. Deves	Late neonatal deaths Annual rate (1 week and under 4 weeks) per cent of 1936-39	10.9	12.8	11·2 103	10·7 98	9·3 85	10.3	10.0	9·6 88	9.9	5·5 50	4.8	4.5	4.3	3.9
	Post-neonatal deaths Annual rate (4 weeks and under 1 year) per cent of 1936-39	41·6 100	38·4 92	41.3	34·3 82	35·1 84	33.0	30·5 73	26·9 65	24.7	17.9	15·1 36	13.6	12.8	9.1

TUBERCULOSIS

In 1952, 10,585 people died of tuberculosis, 7,114 males and 3,471 females. This was 36 per cent less than the average for 1949-51 (36 per cent less for respiratory tuberculosis and 37 per cent less for other forms). Deaths from respiratory diseases are normally more frequent in the winter months and tuberculosis follows this rule. In December 1952 the London area experienced a lethal smog. That this may have increased the number of deaths from bronchitis and pneumonia without affecting those from respiratory tuberculosis to any marked extent, is suggested by the following comparison:—

		Deaths	in 1952 per cent of aver	age deaths in 1948-51
Vide their bes been a	8000	Greater London	Rest of England and Wales	England and Wales, December only
Respiratory tuberculosis	${M. \atop F.}$	67 53	66 49	85 64
Bronchitis	$\left\{ _{F.}^{M.}\right.$	123 114	88 76	185 167
Pneumonia	${M. \brace F.}$	106 102	92 93	149 143

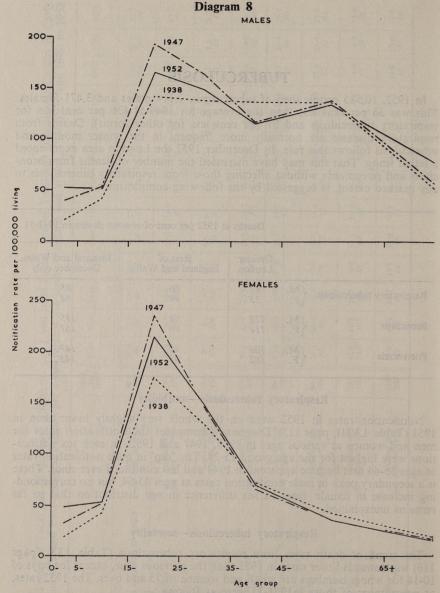
Respiratory tuberculosis—morbidity

Notification rates in 1952 were on the whole very slightly lower than in 1951 (Table LVIII, page 115). Diagram 8 compares the notification rates for men and women at various ages in 1938, 1947 and 1952. In each sex notifications were highest for the age group 15-24. The 'dip' in male notification rates at ages 35-44 first became apparent in 1944 and has continued ever since. There is a secondary peak in male notification rates at ages 45-64, but no corresponding increase in female rates, a sex difference in age distribution that so far remains unexplained.

Respiratory tuberculosis—mortality

The trend of death rates from respiratory tuberculosis (Table LIX, page 116) was towards lower rates in 1952 than the previous year, except for boys of 10-14 for whom numbers are small and women of 75 and over. The 1952 rates, as percentages of those in1931-35 were as follows:—

	0-	5	10-	15-	20-	25-	35-	45-	55-	65-	75 & over
Male	18	10	16	7	11	21	25	37	70	117	163
Female	24	12	4	7	15	25	26	28	38	49	95



Respiratory tuberculosis: Notification rates per 100,000 living, 1938, 1947 and 1952

The decline in rates was very marked at ages 15-19; for men aged 25-44 and women of 25-54, the average decrease was much the same, around 75 per cent, and men aged 45-54 showed the same decrease in rates as women ten years older. At ages 75 and over there was a decrease of only 5 per cent in women's rates, and male rates in the two age groups of 65-74 and 75 and over were 117 and 163 per cent of what they had been in 1931-35. The Comparative Mortality Index for respiratory tuberculosis (Table LX, page 117), which takes into account the changing age structure of the population, showed sharp decreases

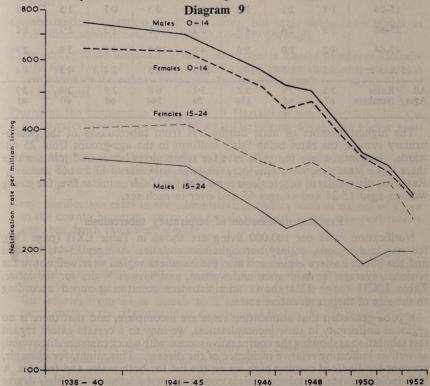
from the 1951 figures for both sexes. There were also substantial decreases in the C.M.I.s for tuberculosis of other sites, especially of the meninges and central nervous system.

Non-respiratory tuberculosis—morbidity

The following table shows the notification rates per million living by sex and age from tuberculosis of all sites (other than respiratory) combined since 1938.

ni an sa To saom	99/ 75/1 Star 58		Males	90 21 80 18 918			rticeh te	Females		
en Ku -ei ener -ein bre	All Ages	0-	15-	25-	45 & over	All Ages	0-	15-	25-	45 & over
1938-40 1941-45 1946 1947 1948 1949 1950 1951 1952	290 269 217 202 197 171 151 149 135	744 698 569 518 505 423 350 327 275	341 326 250 227 243 211 186 196 196	151 148 123 114 99 93 93 98 91	72 64 53 54 53 50 48 48 50	264 261 210 196 199 174 164 159 146	641 632 518 455 473 399 343 314 272	403 413 ·334 317 333 304 288 300 242	172 178 149 144 138 127 139 131	61 63 47 51 46 40 39 46 54

While there has been a general downward trend in each age-group shown, the rate of decline has been much swifter in the younger age groups. Diagram 9 shows not only the rate of decrease at ages 0-14 as compared with 15-24, but



Non-respiratory tuberculosis: Notification rates per million living at ages 0-14 and 15-24 by sex in 1938-40, 1941-45 and 1946 to 1952

also shows that the sex-differential in favour of females at ages under 15 is becoming less pronounced. At ages 15-24, however, the female rates were considerably in excess of the male and their decline has been slower.

Non-respiratory tuberculosis-mortality

Table LXI (page 118) shows the death rates from non-respiratory tuberculosis, distinguishing meninges and central nervous system from other sites. The most recent decline in death rates is not so marked in the latter as in the former, where for example, the male rate at ages 5-14 in 1952 and most of the female rates were little more than half those in the preceding year. Of the remaining sites, those which chiefly contributed to the death rates were intestines and peritoneum, bones and joints, the genito-urinary system and disseminated tuberculosis. The death rates per million and total number of deaths for these were as follows:—

Age		tines & oneum	Bones	& Joints	Genito	-urinary		minated reulosis
Group	Males	Females	Males	Females	Males	Females	Males	Females
0-4	6.7	1.8	1.7	1.8	ls u- deg	a seed	9.5	6.4
5–14	1.2	1.6	0.6	0.6	0.6	rest seri	0.3	1.3
15–24	1.8	2.1	3.3	1.4	6.3	0.7	1.5	3-9
25–44	1.9	2.4	4.4	1.2	8.8	4.3	1.7	1.2
45-64	4.2	3.0	6.6	4.0	10.4	4.5	3.6	2.4
65 & over	6.5	6.5	17.5	10.3	8.5	3.4	4.5	4.4
All Rates Ages Numbers	3·2 67	2.9	5·2 110	3·1 70	6·8 144	2·9 66	2·8 60	2·7 61

The highest number of male deaths was from tuberculosis of the genitourinary system, the rates being fairly uniform in the age-groups from 25 onwards. In contrast was the male rate for tuberculous bones and joints where there was a steady increase with increasing age, to a rate of 17·5 at 65 and over. Rates for disseminated tuberculosis were high for children under five, for young women aged 15-24 and at ages 65 and over in each sex.

Regional distribution of respiratory tuberculosis

Notification rates per 100,000 living are shown in Table LXII (page 119), for standard regions, county boroughs and counties. At ages 25-44, London and the South Eastern region and also the Northern region were well above the national average for both men and women, and so was Wales for the latter. Table LXIII (page 125) shows administrative counties grouped according to the size of their notification rates.

If it be conceded that notification rates are incomplete, and that there is no regional uniformity in their incompleteness, we may to a certain extent regard this tabulation as showing the comparative success with which cases are discovered, as well as indicating relative incidence of the disease. This might, for example, account for Bedford coming high up on the list for both males and females. A high incidence rate for tuberculosis is commonly associated with a high degree of urbanisation, and hence the rates for county boroughs are expected to exceed those for administrative counties. It is interesting, therefore, to compare

the notification and death rates in 1952 in the two types of area, for those counties in which county boroughs are situated. (Rates per 100,000 living in both cases.) This has been done in Table LXIV (page 127).

With the exception that in a few counties the female death rate in the administrative county was a little higher than in the county boroughs, the following counties had notification and death rates lower than those in the corresponding county boroughs:—

Berkshire, Derbyshire, Gloucestershire, Leicestershire, Lincolnshire (Lindsey), Norfolk, Northamptonshire, Nottinghamshire, Oxfordshire, Southampton, Suffolk (East), Warwickshire, Worcestershire, Yorkshire, East and North Ridings.

These are counties in which the administrative counties are predominantly rural in character.

In no case were both notification and death rates higher in the administrative county than in the county borough, though in Somerset this was true of all but the female death rate.

Of the remaining counties:

- Cheshire; notification rates in the administrative county were lower than in the county boroughs, but the death rates were higher than in Chester. Chester and Wallasey had similar notification rates, but the death rates were higher in the latter. Stockport had comparatively low notification rates.
- Cumberland; notification rates were lower but male death rates higher in the administrative county than in the county borough.
- Devonshire; Male notification and death rates in Exeter were exceptionally high for a town of this type; the notification rate in the county was much lower than in the county boroughs, but the male death rate was as high as in Plymouth.
- Durham; the notification rates in West Hartlepool were very low, but the death rates were high compared with Darlington which had higher notification rates.
- Essex; West Ham had the lowest male notification and the highest death rates. The notification rates in the administrative county were similar to those in East Ham, but the death rates were higher in the latter.
- Kent; notification rates in the administrative county were in excess of those in the county borough, where the female notification rate was particularly low, but death rates were similar.
- Lancashire; there was a wide variation in notification rates among county boroughs, from 240 for males and 196 for females in Bootle to 61 for males and 26 for females in Bury. Death rates in the county boroughs varied from 59 for males in Manchester and 52 in Bootle to 14 in Wigan and for females from 34 in Bootle to 2 in Southport. Both notification and death rates in the administrative county were higher than in several county boroughs.
- Surrey; notification rates in both county and county borough were very similar; death rates were higher in the latter.
- Sussex; Brighton had high notification rates in comparison with Eastbourne and Hastings, whose male rates were also exceeded by that of the administrative county, but male death rates were lower in the latter.

Yorkshire: West Riding; Wakefield continued to hold a record low place for notification and death rates and in several other county boroughs notification rates were lower than in the administrative county. Barnsley in particular combined low male notification with high death rates.

A high death rate in any area indicates that there has been a large number of advanced, and presumably infective, cases. In such circumstances we might also expect high notification rates. For English county boroughs the correlation between death and notification rates was 0.49 for males and 0.53 for females.

Table LXV (page 128) shows the death rates per million by regions and conurbations, as well as counties and county boroughs. In the conurbations these rates were as follows:—

Conurbation	Males							Females						
Condition	0-	5-	15-	25-	45-	65 and over	All Ages	0-	5-	15-	25-	45-	65 and over	All
Tyneside West Yorkshire Merseyside S.E. Lancs W. Midlands	25 14 	19 6 —	158 44 99 78 102	418 205 376 318 283	1,086 518 965 873 945	907 611 975 967 903	487 264 401 415 381	28 14 30 30	_ _ _ _ 18	200 57 184 133 207	418 210 404 253 205	234 122 207 162 176	159 130 181 179 166	225 116 208 157 152

Diagram 10 shows the marked similarity between female death rates on Tyneside and Merseyside and again in the South East Lancashire and West Yorkshire conurbations. There was a similarity between male death rates in the working ages up to 65 on Tyneside and Merseyside and rates were only a little less in the West Midlands and South East Lancashire conurbations. Much lower rates obtained in the West Yorkshire conurbation.

Death rates of children under 15 in regions, counties and county boroughs from tuberculous meningitis and other non-respiratory tuberculosis are shown in Table LXVI (page 133). Among the regions rates were highest for children of both sexes in the North Western.

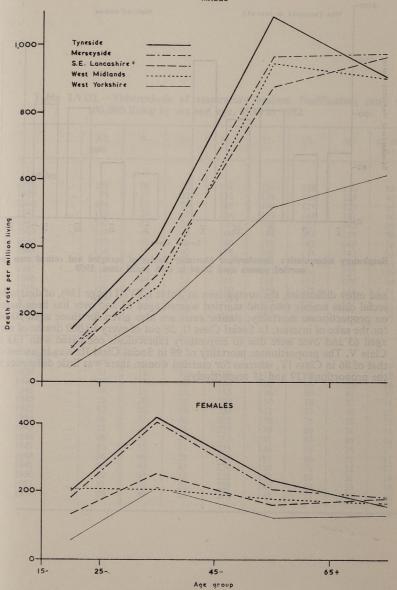
Respiratory tuberculosis-mortality by social class

Table LXVII (page 135) shows the deaths by social class and certain broad occupational groups in 1950 and the standardized mortality ratios,* for men and married women aged 20 to 64. From Diagram 11 it will be seen that the S.M.Rs. of men in Social Classes I and II were approximately equal, and also those in Classes III and IV. In Social Class V the S.M.R. was 149, 2·3 times that in Class I. The same general trend was apparent in the deaths of wives of men in these social classes.

Within the social sub-classes, mortality was apparently very high among the armed forces (S.M.R. 213), dock labourers (S.M.R. 171) and hewers and getters of coal (S.M.R. 162). The wives of men in these sub-classes also had S.M.R.s well above the average (288, 171 and 161 respectively) though in respect of wives of members of the armed forces, at any rate, it is believed that the ratio may have been artificially inflated by reason of the method of computation employed.

From the age of 60 onwards, a number of men are described in the Census schedules as unoccupied, and so are not assigned to any of the social classes, whereas their previous occupation is elicited at death registration; this leads to an inflation of the death rates of occupied or retired men. Because of this

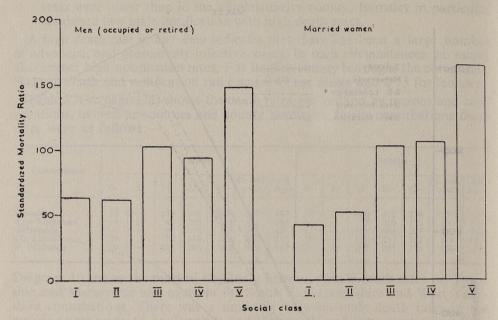
MALES



Respiratory tuberculosis: Death rates per million living according to sex and age (15 and over) in various conurbations

^{*} See The Registrar General's Decennial Supplement. England and Wales, 1951. Occupational Mortality, Part I. H.M.S.O., 1954. Price 7s. 6d. net.

Diagram 11



Respiratory tuberculosis: Standardized Mortality Ratios of occupied and retired men and married women aged 20-64 in each social class, 1950

and other difficulties, the comparison in Table LXVIII (page 136), of deaths by social class among men and married women aged 65 and over has been based on proportionate mortality; similar rates are also given for those aged 20-64, for the sake of interest. In Social Class II, 58 out of every 10,000 deaths of men aged 65 and over were due to respiratory tuberculosis compared with 133 in Class V. The proportionate mortality of 99 in Social Class III was in excess of that of 86 in Class IV, whereas for married women there was little difference in the proportions (39 and 38 respectively).

Table LVIII.—Tuberculosis of respiratory system: Notification rates per 100,000 living by sex and age, 1938 to 1952

	a tag	All	0-	5-	15-	25-	35-	45-	65 and over
M38 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952	ales	108 98 104 115 117 119 122 118 119 1118 117 119 111 115 112	20 17 17 20 22 27 30 32 32 40 44 46 53 53 53	42 32 29 33 38 40 41 40 46 53 51 49 49 48 51	141 132 145 154 165 166 180 178 179 193 215 180 159 170 165	137 124 146 155 148 144 158 160 174 163 161 159 154 156 147	136 124 128 148 153 154 142 135 125 116 117 122 107 117	136 125 123 141 142 152 149 142 138 137 139 146 135 141	52 46 43 50 49 50 56 53 54 56 64 68 67 72 77
Fem 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951	208 306 272 200 200 200 200 200 200 200 200 200	77 71 70 76 78 83 86 81 80 83 86 85 82 81 80	18 15 17 19 20 26 26 26 28 33 46 44 43 50 49	42 33 30 33 34 40 40 41 49 51 58 53 52 52 53	175 166 168 185 204 209 227 223 213 235 244 238 238 229 216	129 116 120 126 130 142 150 140 141 146 151 155 152 149 148	72 68 66 69 70 73 75 69 65 66 68 71 69 68	42 37 35 41 37 40 38 34 35 35 35 31 33 33	19 18 16 19 18 18 16 16 16 17 17 17 16 16

Table LIX.—Tuberculosis of respiratory system: Death rates per million living by sex and age, 1931-45 and 1946 to 1952

Sc of	0-	5-	10-	15-	20-	25-	35-	45-	55-	65-	75 and over
Males 1931–35 1936–40 1941–45 1946 1947 1948 1949	85 61 76 68 77 56 33	42 20 24 22 15 10 6	64 44 34 23 29 14 13	490 366 339 239 241 211 127	963 742 581 481 500 445 368	961 785 674 615 632 603 496	1,140 937 811 687 679 633 591	1,368 1,210 1,114 1,020 1,034 961 869	1,176 1,216 1,203 1,165 1,213 1,166 1,153	723 718 741 768 812 881 927	275 296 295 340 267 334 380
1949* 1950* 1951* 1952*	34 38 30 15	7 9 7 4	14 8 7 10	127 78 46 35	366 229 171 102	497 395 292 201	592 428 364 287	869 751 636 503	1,159 1,024 978 829	937 891 953 843	400 411 464 447
Females 1931–35 1936–40 1941–45 1946 1947 1948 1949	74 55 72 60 70 52 33	43 24 24 25 24 19 9	143 98 76 69 63 53 30	840 658 591 468 502 462 349	1,138 1,016 916 842 899 812 684	911 759 692 662 730 702 622	646 511 427 382 411 367 348	475 377 304 261 267 255 253	394 339 269 242 249 235 245	306 272 220 207 224 218 229	170 160 123 119 133 105 127
1949* 1950* 1951* 1952*	33 29 25 18	10 8 8 8 5	30 15 14 6	351 199 108 58	682 429 278 169	622 444 347 230	348 273 238 166	254 229 192 131	249 212 180 148	236 212 198 150	139 144 135 159

^{*} According to the 6th (1948) Revision of the International List. Throughout the rest of the table rates are according to the 5th (1938) Revision.

Table LX.—Tuberculosis: Comparative Mortality Indices for various sites, 1931 to 1952

05 & 05 & 05 & 05 & 05 & 05 & 05 & 05 &	All forms		Respira- tory		Meninges and C.N.S.		Intestines, perito-neum, etc.		Bones and joints		Other forms	
ends	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1931	1·39 1·30 1·29 1·20 1·13 1·09 1·01 1·18 1·26 1·21 1·17 0·94 0·90 0·83 0·76 0·62 0·55 0·44	1·47 1·38 1·34 1·16 1·10 0·99 1·08 1·11 0·99 0·98 0·92 0·92 0·86 0·89 0·82 0·72 0·55 0·45 0·31	1·38 1·27 1·29 1·19 1·08 1·00 1·02 1·22 1·36 1·27 1·33 0·97 0·93 0·87 0·80 0·66 0·58 0·47	1·47 1·36 1·35 1·24 1·18 1·11 1·12 1·00 1·09 1·09 0·91 0·91 0·91 0·92 0·85 0·77 0·58 0·46 0·32	1·44 1·38 1·21 1·22 1·10 1·06 1·04 1·00 0·92 1·06 1·42 1·20 1·13 1·05 1·01 0·88 0·81 0·64 0·55 0·42 0·43 0·26	1·39 1·28 1·18 1·22 1·01 1·00 0·93 1·07 1·37 1·13 1·14 1·02 1·04 0·89 0·81 0·76 0·48 0·46 0·26	1·75 1·78 1·50 1·34 1·23 1·08 1·19 1·00 0·96 1·09 1·27 1·27 1.02 0·97 0·93 0·69 0·55 0·39 0·23 0·21 0·17	1·91 1·65 1·72 1·45 1·31 1·29 1·00 0·92 1·05 1·00 1.08 0·96 0·81 0·71 0·53 0·62 0·51 0·37 0·25 0·24 0·16	1·53 1·45 1·46 1·41 1·29 1·21 1·00 1·05 1·10 1·03 1·30 1·30 1·22 1·05 1·01 0·69 0·58 0·58 0·39 0·38 0·29 0·28	1·72 1·88 1·52 1·56 1·39 1·33 1·24 1·00 1·14 0·99 1·11 1·06 0·99 0·94 0·81 0·80 0·66 0·65 0·48 0·39 0·35 0·26	1·24 1·28 1·19 1·07 0·97 1·02 1·04 1·00 0·98 0·92 1·32 1·13 1·14 1·11 1·08 0·81 0·83 0·70 0·64 0·47 0·43 0·37	1·23 1·34 1·10 1·12 0·98 0·95 1·12 1·00 0·93 1·05 1·12 0·99 0·98 0·99 0·92 0·86 0·86 0·44 0·39 0·32

Table LXI.—Tuberculosis of meninges and central nervous system, and other non-respiratory tuberculosis: Death rates per million living by sex and age, 1938-40, 1941-45 and 1946 to 1952

			N	I ales						Fe	male	S		
	All	0-	5-	15-	25-	45-	65 & over	All	0-	5-	15-	25-	45-	65 & over
Opposition of the state of the		No.	Tub	ercul	osis o	f mer	ninges	and cer	ntral ne	ervous	s syst	em	123	2015
1938-40 1941-45 1946 1947 1948 1949 1950 1951	45 50 40 39 31 27 20 21 13	289 308 222 215 179 153 103 109 67	73 87 80 68 47 40 32 30 15	41 51 42 39 30 26 20 19 13	14 15 11 12 9 8 7 9 6	6 6 7 8 7 5 7 5 4	2 1 3 1 3 4 3 3 1	40 45 36 34 30 24 20 19 11	273 282 199 184 166 126 116 102 57	77 90 82 66 54 40 31 34 18	48 65 52 52 44 33 31 30 16	11 14 12 11 10 10 6 8 5	4 4 3 4 3 4 4 3 2	2 1 0 1 2 1 2 1 1
000 1 E		51 8 94 1	0.0	10.0	Othe	r non	-respira	atory t	ubercul	osis			Name of the second	840 840 860
1938–40 1941–45 1946 1947 1948 1949 1950 1951	69 63 48 46 40 34 26 23 20	148 134 87 92 57 34 24 17 19	42 40 24 29 20 15 10 5	85 77 51 46 41 38 25 19	61 57 48 41 37 32 27 25 18	63 58 50 48 49 42 31 30 29	60 52 44 43 40 41 41 37 44	53 50 39 39 33 24 20 18 14	114 101 64 65 56 33 20 15 10	35 35 25 27 18 8 7 5 4	72 72 53 57 39 26 22 14 9	48 45 38 37 31 24 16 13 11	40 37 30 34 28 26 23 25 17	50 50 40 29 38 25 30 34 30

Table LXII.—Respiratory tuberculosis: Notification rates per 100,000 living by sex and age for Standard Regions, County Boroughs and Administrative Counties, 1952

	327			Males							Females			
Area	0-	5-	15-	25-	45-	65 and over	All	0-	5-	15-	25-	45-	65 and over	All
England and Wales Standard Regions: Northern East and West Ridings North Western North Midland Eastern London and South Eastern Southern South Western Wales	52 48 51 57 41 66 47 49 28 19 61	51 67 53 64 57 70 33 46 34 35 66	165 183 120 167 152 161 131 213 110 139 186	131 142 115 122 103 129 114 158 110 122 133	135 161 131 139 115 148 107 154 117 117 145	77 61 72 85 63 77 57 99 75 58 84	112 124 100 114 96 119 91 133 90 95 122	49 55 49 56 42 66 40 42 26 14 52	53 74 50 68 58 69 40 47 40 44 60	216 304 171 234 190 211 152 222 146 200 260	109 136 91 102 90 102 93 120 102 98 125	35 39 28 31 30 35 34 41 35 31 37	16 22 13 15 20 14 15 19 16 13 20	80 108 67 82 73 84 64 85 66 67 93

				Males							Females			
Area	0-	5-	15-	25-	45-	65 and over	All	0-	5-	15-	25-	45-	65 and over	All
Administrative Counties: Bedfordshire Berkshire Buckinghamshire Cambridgeshire Cheshire Cornwall Cumberland Derbyshire Devon Dorset Durham Ely, Isle of Essex Gloucestershire Hertfordshire Hertfordshire Huntingdonshire Kent Lancashire Leicestershire	70 31 13 39 24 14 19 40 — 9 58 — 40 21 51 75 41 56 7	24 21 18 19 41 30 16 45 21 38 57 105 29 16 47 46 18 44 51	157 78 93 196 91 159 187 107 84 81 158 119 182 186 110 148 111 180 135 88	190 96 105 115 70 137 162 83 77 58 128 57 131 140 101 109 142 142 104 79	141 96 109 130 87 105 183 95 69 86 141 82 112 100 87 110 57 144 114 98	145 74 63 65 80 75 140 83 23 71 45 44 76 49 31 64 61 66 43	135 75 80 104 69 100 129 79 54 63 109 70 104 96 79 98 73 116 95 67	97 27 24 32 31 8 13 33 12 27 47 44 42 6 87 47 32 34 42 28	71 27 45 43 26 33 67 48 25 39 63 71 33 28 98 20 24 59 38 38	276 121 185 179 146 171 288 146 116 98 271 152 148 238 226 144 205 223 187 161	142 97 95 76 52 107 168 78 59 101 111 45 96 90 90 97 80 113 90 89	47 33 38 29 14 25 27 22 19 42 29 30 34 32 12 39 25 42 23 25	20 11 8 -5 7 16 19 13 16 20 20 12 13 10 24 22 25 12 37	109 59 71 61 41 109 59 38 59 94 58 65 65 77 66 62 82 64 66
Lincolnshire (Parts of Holland) Lincolnshire (Parts of	 20	73	85	87	78	23	70	-	54	117	58	9	16	45
Kesteven)	 16	21	107	98	67	47	70	18	43	247	53	51	11	64
Lincolnshire (Parts of Lindsey) London Middlesex	 7 60 55	29 55 38	137 260 194	84 198 139	81 210 133	24 151 87	70 174 118	14 65 30	30 63 34	155 266 238	48 157 104	15 54 36	16 24 17	46 112 79

Table LXII.—continued.

Cartista Christor	- <u>267</u>	93 93 43	327	Males	1.10		184				Females			112
Area	0-	5-	15-	25-	45-	65 and over	All	0-	5-	15-	25-	45-	65 and over	All
Administrative Counties—contd. Norfolk	26 9 21 47 15 — 27 11 36 47 25 — 39 56 41 28 30 — 15 15 15 15 6 40 40 40 40 40 40 40 40 40 40	21 22 58 42 38 162 24 46 29 48 51 12 39 80 35 56 23 33 12 26 16 15 50	100 153 211 117 66 296 83 14 134 103 119 50 48 185 149 198 228 60 98 54 138 68 24 118	68 78 124 86 102 167 37 73 107 116 108 78 67 151 109 124 130 108 110 94 89 55 75 112	107 68 123 98 71 117 77 57 140 92 118 56 81 124 129 115 109 52 94 108 104 105 70	50 27 64 46 14 26 — 35 44 38 58 22 29 74 87 46 72 — 79 56 66 66 38 35 79	69 63 110 79 68 127 44 44 95 81 93 54 50 114 107 99 111 54 79 69 80 60 46 97	32 30 44 31 87 -23 9 22 43 37 -19 16 42 50 -36 12 23 -11 45	25 31 51 65 16 68 56 20 54 37 57 39 53 39 20 19 74 ———————————————————————————————————	140 95 270 162 155 357 500 67 157 124 199 59 141 175 138 129 176 195 157 148 130 94 145 161	83 61 149 69 98 130 100 55 104 105 87 93 88 103 94 89 113 87 58 80 86 73 75 87	34 20 29 14 33 42 ————————————————————————————————	21 30 19 7 42 — — 11 7 17 6 — 14 8 9 11 16 11 29 19 19 19 19 11 16 11 11 29 19 19 19 19 19 19 19 19 19 19 19 19 19	58 41 96 59 68 108 76 33 66 61 73 46 53 68 49 48 80 50 45 60 57 47 54 66
Anglesey Brecknockshire Caernarvonshire Cardiganshire Carmarthenshire	83 105 83 52	61 105 179 29 73	100 64 176 179 255	260 38 215 99 137	175 68 215 36 85	38 43 80 57 73	143 57 177 78 117	125 53 143 — 50	23 79 136 24 46	258 114 280 333 327	175 123 77 53 115	38 25 36 37 25	$\begin{vmatrix} - \\ 19 \\ - \\ 32 \end{vmatrix}$	89 71 92 58 92

Biochochthie Laringuishire	100	128	138 138 44	Males	215		J.A.	183			Females	32	1.6	23
Area	0-	5-	15-	25-	45-	65 and over	All	0-	5-	15-	25-	45-	65 and over	All
Administrative Counties—contd.	1-0	312	77.54		30			111		140	100	33		
Denbighshire	89 45 71 143 51 —	104 72 57 161 51 40 18	112 100 277 116 189 179 125 53	150 73 112 192 139 140 94 107	167 105 141 244 109 49 78	100 85 112 74 62 43	132 83 126 165 108 84 68 36	59 33 70 111 15 43	26 69 59 29 94 63	266 174 280 208 303 219 190	173 120 131 208 143 48 37 74	30 45 30 89 54 53 26	17 12 22 87 28 — 19 91	97 81 100 123 109 65 45 33
County Boroughs: Barnsley Barrow-in-Furness Bath Birkenhead Birmingham Blackburn Blackpool Bolton Bootle Bournemouth Bradford Brighton Bristol Burnley Burton upon Trent Bury Canterbury Carlisle Chester Coventry Croydon	20 26 108 75 24 53 — 108 — 15 18 42 — 182 152 — 25 —	37 43 — 69 75 57 49 35 81 34 32 133 53 91 27 54 53 45 81 65 41	148 222 30 179 192 164 75 34 226 233 186 239 214 182 240 71 34 186 83 329 169	555 87 108 201 141 129 129 124 289 158 142 191 144 47 42 44 241 171 115 224 123	182 105 150 238 179 156 135 87 348 207 123 126 147 139 105 100 56 239 97 179 158	34 33 24 18 84 14 63 123 353 114 59 67 95 105 — 63 — 28 333 161 109	87 86 77 161 135 109 102 80 240 143 107 140 126 92 68 61 96 154 114 181 113	94 ————————————————————————————————————	81 56 18 94 73 62 88 61 208 11 34 132 64 21 59 — 59 49 156 50 65	240 190 173 448 221 139 171 51 387 90 237 324 275 137 256 53 143 415 196 311 187	85 60 73 162 117 70 55 102 239 115 111 90 138 164 109 55 25 160 161 154 90	47 26 42 51 33 26 28 41 68 33 23 56 25 36 ———————————————————————————————————		90 65 53 136 90 54 56 196 62 73 98 92 72 74 26 28 115 103 113 69

Table	LXII.—continued.

Necessary Lydia store some me				Males				190		300 300	Females			
Area	0-	5-	15-	25-	45-	65 and	All	0-	5-	15-	25-	45-	65 and	A
York		63		- 63		over	ages	30		131	33		over	ag
ACRECIOSCISION	0.1	000		10-1	100	363	1.9.9	1000	1 2 1	48				1 0
County Boroughs—contd.				198					01	553				
Darlington	42	32	200	138	211	91	131	114	40	231	110	37	58	9
Derby	120	72	162	113	135	76	115	78	51	180	64	38	- 1	6
Dewsbury	1	_	156	95	109	32	78	1 200	23	77	25	-	-	1
Doncaster	132	43	153	103	154	54	115	24	42	250	127	28		8
Dudley	53	200	170	136	119	150	141	100	43	288	55	22	42	8
Eastbourne		27	143	53	69	27	50	-	97	250	106	13	14	6
East Ham	68	56	254	94	102	68	105	128	11	171	73	34	-	1
Exeter	91	170	471	140	128	269	182	36	45	208	108	33	17	7
Gateshead	80	300	545	224	375	70	269	151	141	360	273	23	20	17
Gloucester	100	67	188	216	157	143	163	1	143	378	196	71	333	13
Great Yarmouth	95	_	138	123	120	63	93	-	42	148	205	-	-	7
Grimsby	42	114	407	122	133	129	152	132	99	299	120	37	18	11
Halifax	25	115	164	203	195	98	159	44	32	81	90	39	13	5
Hastings	34	51	240	86	123		86	40	-	100	67	29	34	4
Huddersfield	_	1-	54	96	60	71	57	-	13	122	95	31	22	5
Ipswich	63	51	190	171	157	75	131	73	62	183	84	50	29	7
Kingston upon Hull	17	51	150	121	145	49	101	36	41	175	110	34	7	7
Leeds	65	30	131	130	124	94	106	44	41	178	88	21	6	6
Leicester	48	99	287	150	199	140	157	51	112	259	133	61	21	10
Lincoln	91	120	77	47	128	100	80	80	100	216	139	12	23	19
Liverpool	97	125	332	232	256	188	214	115	133	483	209	98	32	18
Manchester	69	76	194	135	173	97	133	66	84	213	84	20	12	17
Middlesbrough	97	118	277	197	199	79	171	175	132	419	219	116	64	18 12
Newcastle upon Tyne	30	100	271	166	192	99	157	51	77	417	130	53 13	13	7
Northampton	28	14	222	194	159	50	129	59	45	260	68	53		6
Norwich	114	27	156	121	102	59	101	19	75	159			40	14
Nottingham	97	129	257	165	200	139	168	95	90	287 323	187	79 22		10
Oldham	128	60	226	150	186	55	143	191	68		134	22 23	17	6
Oxford	57	31	96	98	123	118	93	27	32	120	96	52		9
Plymouth		49	205	163	162	68	129	21	58	328		32	15	6
Portsmouth	64	35	150	117	152	127	116	20	72	170	80	32	19	0

						64	12	203 130	Males	123	177	1 1	- N	13	130	Females	3.3		3.9
		Are	a			0-	5-	15-	25-	15	CE - 1	A 11		135	130	05	37	100	
						0-	3-	13-	25-	45-	65 and over	All ages	0-	5-	15-	25-	45-	65 and over	All
_	The same of the sa			1000			2.07.17	7733	17.5	200	Over	ages	196	1359	997	3 5.3	110	over	ages
						3.9		555	100	100		150	0.5	40	700	100		10	
	County Boroughs-	-conte	d.					503	199	133	100					1 100			
						38	110	77	96	134	35	94	119	101	260	70	6	32	79
						-	10	273	155	116	163	128	19	25	287	156	32	14	98
						139	122	159	119	133	-	115	121	95	183	87	52	18	84
						33	1-1	70	82	137	49	76	28	48	123	93	27	- 1	59
						18	62	118	99	143	98	98	20	71	231	79	34	26	82
						82	76	121	97	176	133	115	50	98	124	81	47	30	73
	Sheffield	13.04				176	129	111	131	157	88	134	129	. 83	225	106	23	18	88
	Smethwick					368	255	200	136	298	154	226	138	250	250	76	82		118
	Southampton					62	112	170	144	230	140	153	27	81	153	132	47	28	89
	Southend-on-Se	a				45	20	173	139	139	53	107	37	31	141	55	44	13	49
	Southport					32	130	143	58	155	65	88	43	60	85	48	28	11	41
	South Shields					109	203	210	288	319	94	232	111	243	482	219	75	56	200
124		U					22	253	75	64	32	75	66	21	90	86	5	11	44
4	Stoke on Trent					76	75	120	128	259	144	141	115	38	208	77	79	22	87
	0 1 1 1	519				74	54	295	165	160	60	150	114	124	431	138	47	19	144
						80	56	326	213	301	37	189	143	122	295	182	68	22	139
	XX 1 C 11	134		,		23	26	70	58	83	31	52	173	122	83	48	14	25	31
	XX7-11					17	59	241	104	147	132	114	44	60	391	120	23	14	104
						368	382	264	149	228	54	239	489	253	438	157	41	42	193
	XXX .		***	•••		31	60	91	100	192	125	105	409	63	176	112	21	50	82
	West Bromwich					182	72	176	187	233	118	167	176	197	220	96	43	23	114
	***		•••	•••		62	56	85	91	115	122	91		63	153	101	19	11	65
	West Hartlepoo		•••	•••	•••	02	56	344	52	147		89	29	66	358	89	12		93
		- Court		•••		30		148	109	50	51	69	27	63		71		25	64
	Wolverhampton				•••	the second second	60	204	164		51		78		255		20		99
	TT7		•••	•••		61				156	50	128		96	350	103	20	70	122
		•••	•••			50	22	278	165	203	36	144	-	133	286	167	36	70	
	York	•••				_	63	92	97	152	49	93	29	1	121	32	14	0-4-5	37
	Cardiff	Milen				63	41	113	192	217	06	144	20	63	244	140	25	13	92
			•••	•••		95	22	150	165	217 389	96	185	38	54	326	223	71		136
	NT	•••	•••	•••		78	203	224	140	203			33	92	266	98	54	-	92
	Commence	•••	•••	•••		16	203	178	126	139	91	161	39	27	200	95	43	33	75
	Swallsca	•••	•••	•••	•••	10		170	120	137	100	109	39	21	204	75	43	33	13

Table LXIII.—Respiratory tuberculosis: distribution of administrative counties of England and of Wales according to the rate of notification (per 100,000 living, by sex).

	1 1818 5852 11		England.—	-Males		
	Bedfordshire 135 Cumberland 129 Kent 116 London 174 Middlesex 118 Peterborough, Soke of : 127	Cambridgeshire 104 Cornwall 100 Durham 109 Essex 104 Northumberland 110 Surrey 114 Sussex East 107 Warwickshire 111	Buckinghamshire 80 Gloucestershire 96 Hertfordshire 98 Lancashire 95 Somerset 95 Southampton 81 Staffordshire 93 Sussex West 99 Worcestershire 80 Yorks., West Riding 97	Berkshire 75 Derbyshire 79 Ely, Isle of 70 Herefordshire 79 Huntingdonshire 73 Lincs., Holland 70 Lincs., Kesteven 70 Lincs., Lindsey 70 Nottinghamshire 79 Isle of Wight 79	Cheshire 69 Dorset 63 Leicestershire 67 Norfolk 69 Northamptonshire 63 Oxfordshire 68 Wiltshire 69 Yorks., East Riding 60	Devon 54 Rutlandshire 44 Shropshire 44 Suffolk East 54 Suffolk West 50 Westmorland 54 Yorks., North Riding 46
125	Depugashio 132 Canta galanie 150 Mesicoclichie 163	90.1	England.—	Females 60+	50+	30+
	Bedfordshire 109 Cumberland 109 London 112 Peterborough, Soke of: 108	Durham 94 Kent 82 Northumberland 96 Warwickshire 80	Buckinghamshire 71 Herefordshire 77 Middlesex 79 Rutlandshire 76 Staffordshire 73	Cambridgeshire 61 Cornwall 61 Essex 65 Gloucestershire 65 Hertfordshire 66 Huntingdonshire 62 Lancashire 64 Leicestershire 66 Lincs., Kesteven 64 Oxfordshire 68 Somerset 66 Southampton 61 Surrey 68 Wiltshire 60 Yorks., West Riding 66	Berkshire 59 Derbyshire 59 Dorset 59 Ely, Isle of 58 Norfolk 58 Nottinghamshire 59 Suffolk West 53 Westmorland 50 Worcestershire 57 Yorks., North Riding 54	Devon 38 Shropshire 33 Cheshire 41 Lincs., Holland 45 Lincs., Lindsey 46 Northamptonshire 41 Suffolk East 46 Sussex East 49 Sussex West 48 Isle of Wight 45 Yorks., East Riding 47

Table LXIII.—continued.

	108	What work and the same	Wales	-Males	Pitcatolika	Parameter Company of the Company of
_	120+	100+	80+	60+	50+	30+
	Anglesey 143 Caernarvonshire 177 Denbighshire 132 Glamorganshire 126 Merionethshire 165	Carmarthenshire 117 Monmouthshire 108	Flintshire 83 Montgomeryshire 84	Cardiganshire 78 Pembrokeshire 68	Brecknockshire 57	Radnorshire 36
	The state of the s	A COLUMN	Wales.—	-Females		
-	120+	100+	80+	60+	50+	30+
	Merionethshire 123	Glamorganshire 100 Monmouthshire 109	Anglesey 89 Caernarvonshire 92 Carmarthenshire 92 Denbighshire 97 Flintshire 81	Brecknockshire 71 Montgomeryshire 65	Cardiganshire 58	Pembrokeshire 45 Radnorshire 33

Table LXIV.—Respiratory tuberculosis: Notification and death rates per 100,000 living by sex in each County Borough and certain Administrative Counties of England, 1952.

	S. R. AND POSITION PROPERTY.	rate ales Females M. 28	Deat	h rate			cation	Dear	th rate
	Males	Females	Males	Females		Males	Females	Males	Females
Berkshire Reading	128		28	8 9	Northamptonshire Northampton	129 63	74	38	14
Admin. County Cheshire	es company				Admin. County Northumberland	A Santon Balance	41	33	11
Birkenhead	161		37	11 4	Newcastle upon Tyne Tynemouth	157	123 139	44 43	23 27
Stockport Wallasey	75		42 28	9	Admin. County Nottinghamshire	110	96	28	8
Admin. County	69		24	7	Nottingham	168	141	45	21
Cumberland Carlisle	154		24	17	Admin. County Oxfordshire	79	59	23	15
Admin. County Derbyshire	129	109	27	13	Oxford Admin. County	93	60 68	18	6 5
Derby	115		25 23	8 9	Somerset	77	53	24	15
Admin. County Devon					Admin. County	95	66	29	13
Exeter Plymouth	182		42 26	12 23	Southampton Bournemouth	143	62	31	16
Admin. County	54	38	26	10	Portsmouth Southampton	116 153	65 89	35 59	9
Darlington			15	9	Admin. County	81	61	18	7
Gateshead South Shields	232	200	56 86	33	Staffordshire Burton upon Trent	68	74	30	8
Sunderland West Hartlepool	150		49	20	Smethwick Stoke on Trent	226	118	42 51	15 25
Admin. County	109	94	27	19	Walsall West Bromwich	239	193 114	53 43	19 18
East Ham	105		33	11	Wolverhampton	128	99	36	7
Southend-on-Sea West Ham	107	65	19 35	12	Admin. County Suffolk East	93	73	27	17
Admin. County Gloucestershire	104	65	21	11	Ipswich Admin. County	131	76 46	30 23	11 10
Bristol	126 163		30	13	Surrey	113	69	34	12
Admin. County	96		27	8	Admin. County	114	68	26	9
Kent Canterbury	96		30	7	Sussex East Brighton	140	98	30	8
Admin. County Lancashire	116	82	30	11	Eastbourne Hastings	50 86	66	34	3 5
Barrow	86		21 48	18 5	Admin. County	107	49	22	8
Blackpool	102	54	41	14	Warwickshire				
Bolton Bootle	80 240	56 196	38 52	14 34	Birmingham	135	90	37 23	13
Burnley Bury	92	72 26	40 39	16	Admin. County	111	80	19	9
Liverpool	214	185	44 59	25 20	Worcestershire	141	04	40	
Oldham	143	100	45	14	Dudley	141	84 122	36	25
Preston	94	79	42	18	Admin. County Yorks. East Riding	80	57	27	12
St. Helens	98	82 73	48	20 26	Kingston upon Hull Admin. County	101	76 47	40 26	19
Southport	88	41	31	2	Yorks. North Riding				
Warrington Wigan		82 64	28	7 9	Middlesbrough Admin, County	171 46	189 54	37	17
Admin. County	95	64	29	12	2 6 6 14	74 15			
Leicestershire Leicester	157	107	38	27	Yorks. West Riding Barnsley	87	00	10	12
Admin. County	67	66	26	15	Bradford	107	90 73	48	13
Lincs. Lindsey	8	To Ke I	1 1 1		Dewsbury Doncaster	78 115	18 89	24 40	21
Grimsby Lincoln	132	112 95	28 46	31	Halifax Huddersfield	159 57	53 54	30 21	7 6
Admin. County	=0	46	21	11	Leeds	106	61	36	12
Norfolk		25 3	THE STATE OF	0.00	Rotherham Sheffield	76 134	59 88	33 35	12
Great Yarmouth Norwich	101	77 62	34	18	Wakefield York	52 93	31 37	16 28	14 2
Admin. County	(0	58	8	10	Admin. County	97	66	22	11

Table LXV.—Respiratory tuberculosis: Death rates per million living by sex and age and notifications per 100 deaths in Regions, Population Density Aggregates within Regional Groups, County Boroughs and Administrative Counties, 1952

	Area visas de visas		100000		Males				-			Female	s			Persons	Notifica tions
		0-	5-	15-	25-	45-	65 and over	All Ages	0-	5-	15-	25-	45-	65 and over	All Ages	All Ages	per hundred Deaths
Conu	AND AND WALES	15 16 19	7 4 7	69 70 119	244 246 307	637 780	720 961	304 358 372	18 15	6 5 5	116 117	197 226	139 149	153 171	128 142	212 244	449
Ove Urba und Urba	areas with populations of 50,000 and der 100,000		17 14 3	91 67 38	249 232 200	748 619 580 408	662 603 435	296 278 199	15 31 14	5 11 2	119 100 85	160 180 145	175 148 118 122	157 135 140	150 120 115 100	256 204 193	
NORTI Norti East	H OF ENGLAND hern	13 6 21	4 21 2	113 64 79	284 221 312	765 589 772	613 701 792	325 286 364	$\frac{7}{22}$	5 _	164 113 139	296 192 234	164 116 142	163 160 144	166 118 140	245 198 246	474 419 393
No Eas	total: orthern st and West Riding orth Western	15	8	83	278	715	723	331	12	I	137	235	139	153	139	231	
South Merse	side conurbation Yorkshire conurbation	25 14 37 —	19 6 7	158 44 78 99 86	418 205 318 376 314	1,086 518 873 965 818	907 611 967 975 859	487 264 415 401 382	28 		200 57 133 184 136	418 210 253 404 296	234 122 162 207 168	159 130 179 181 162	225 116 157 208 166	352 185 279 299	
Urba ove	an areas with populations of 100,000 and	13	8	113	325	842	833.	394	- -	20	137	204	130	231	136	268	
Urba Rura	der 100,000		26 5 8	120 85 39	221 252 183	601 594 464	744 566 410	295 280 200	22 8 —	5	147 156 106	154 195 152	133 101 97	119 125 108	113 117 94	201 195 147	
North Midla Easte	ANDS AND EASTERN h Midland	13 25 —	4 3 5	85 69 30	253 256 174	591 710 352	595 793 553	280 311 194	27 31 —	9 12 14	138 162 79	228 186 108	166 165 155	124 179 156	142 139 102	210 223 147	400 452 528
Sub-t No Mi	total: orth Midland dland stern Midlands conurbation	14	4	62	233	569	652	268	22	12	132	177	162	155	129	197	
Urba	n areas with populations of 100,000 and	39		102	283	945	903	381	30	18	207	205	176	166	152	263	
unc	n areas with populations of 50,000 and der 100,000	21	14	45 123	282	682 589	1,077	349 265	12 23 27	8	240 104	209	208	173	167 141	254	
Urba	an areas with populations under 50,000	9	5	70 25	220 166	492 292	606 378	249 154	27 16	22	65 70	158 137	137 136	156 131	111 97	178 126	

Table LXV.—continued.

Area			- 13	Males		11320	9 18 V			330	Female	S			Persons	Notifica tions
Portugues Preston Progles	0-	5-	15-	25-	45-	65 and over	All Ages	0-	5-	15-	25-	45-	65 and over	All Ages	All Ages	per hundre Deaths
GREATER LONDON SOUTH OF ENGLAND	9	6	49	199	676	899	319	16	6	75	171	118	166	114	209	512
Remainder of South Eastern Southern South Western	19 	12 11 14	54 53 52	247 217 229	563 508 557	505 603 567	272 245 270	$\frac{41}{17}$	6 6	67 39 141	127 127 170	89 128 139	135 129 194	90 90 129	174 166 197	470 409
Sub-total: Remainder of South Eastern Southern South Western	18	13	53	230	543	558	262	19	4	82	143	119	155	104	180	100
Urban areas with populations of 100,000 and over Urban areas with populations of 50,000 and	33		152	274	689	640	335		10	113	193	172	180	138	231	
under 100,000	17 17	28 22 5	33 35 33	281 198 218	621 564 412	772 541 458	323 260 207	28 26	<u>-5</u>	99 69 72	95 148 129	127 84 124	164 138 156	97 95 99	200 172 153	
WALES Urban areas with populations of 100,000 and over	26	16 —	135 278	325 416	776 826	816	386 464	47	11 —	132 116	274 305	180 208	137	162 170	272	393
Urban areas with populations of 50,000 and under 100,000 Urban areas with populations under 50,000 Rural areas	- 41 31	35	92 103	235 289 311	1,389 782 686	846 604	418 378 337	111	 13 18	233 126 145	638 273 217	238 203 118	556 102 176	340 169 132	376 272 235	
County Boroughs Barnsley	_ _ _ _ 21	185	164 — — — — 146	183 194 392 478 215	1,039 465 250 748 966	2,069 333 476 702 935	475 208 237 366 374	323 — — 38	11111	400 238 — 286 116	256 — 161 196 159	390 339 — 202	286 132 115	133 177 154 108	304 193 189 232	291 392 333 639
Blackburn			364 149 — 189 167	432 409 487 547 234	748 550 642 1,515 543	725 875 685 588 633	476 408 381 523 313			244 85 323	127 137 366 684 335	162 83 405 165	167 118 196 — 136	131 49 144 136 336 161	248 243 258 251 427	450 326 289 269 509 427
Bradford Brighton Bristol Burnley Burton upon Trent.	- 53 -	54	71 141 148 227	139 426 262 236 278	706 556 600 594 526	924 111 503 1,579 870	315 303 295 396 297			108 — 143 196	302 90 138 172 156	186 75 169 217	84 219 201 182 313	157 80 125 157 78	228 229 179 206 271 183	387 650 527 300 389

Area	Males Females										Persons	Notifica- tions				
District Care Care Care Care Care Care Care Care	0-	5-	15-	25-	45-	65 and over	All Ages	0-	5-	15-	25-	45-	65 and over	All Ages	All Ages	per hundred Deaths
County Boroughs—contd. Bury Canterbury Carlisle Chester Coventry Croydon Darlington Derby Dewsbury Doncaster Dudley Eastbourne East Ham Exeter Gateshead Gloucester Gloucester Great Yarmouth Grimsby Halifax Hastings Huddersfield Ipswich Kingston upon Hull Leeds Leicester Lincoln Liverpool Manchester Middlesbrough Newcastle upon Tyne Northampton Norwich Nottingham Oldham Oxford Plymouth Portsmouth Preston Reading Rochdale Rotherham St. Helens Salford Sheffield Smethwick	909 	59 	357	111 ——————————————————————————————————	571 833 845 323 552 634 211 311 156 577 746 690 787 465 1,417 964 400 619 462 179 261 1,093 717 945 698 1,036 1,427 113 843 714 866 951 1,000 439 511 661 775 435 705 701 1,000 1,00	1,563 ————————————————————————————————————	394 296 241 182 230 342 146 251 235 399 481 344 333 417 563 368 338 282 295 335 207 301 399 360 435 590 372 435 380 443 445 445 452 177 263 348 417 263 348 417 263 348 417 263 348 417 263 348 449 449 449 449 449 449 449 449 449 4		123		110 250 100 — 240 175 79 98 380 169 220 — 97 167 407 326 137 376 138 111 56 56 287 180 435 99 485 325 348 181 227 283 321 64 240 149 58 250 159 169 179 180 180 180 180 180 180 180 180	235	222	129 70 173 38 167 116 92 82 214 96 90 32 110 119 223 144 182 310 74 52 61 109 192 118 268 87 251 198 167 227 140 123 213 141 56 226 93 34 83 177 94 196 258 177 94 196 258 122 148	255 180 206 104 198 224 118 163 224 244 272 173 215 252 391 253 254 296 173 168 132 200 291 230 323 274 337 383 272 326 249 272 324 289 111 244 215 227 215 227 227 227 227 227 227 227 227 227 22	167 340 650 1,040 741 400 960 561 208 415 406 340 388 484 569 594 331 443 582 364 424 510 301 356 405 321 590 267 663 476 417 673 451 412 381 640 335 324 268 272 481 614

-	-		-
Table	LX	 continue	1.

Area			1489 - No.	Males	127		11 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	952	190	138	Females	s in		192	Persons	Notifica tions
Fingston boston	0-	5-	15-	25-	45-	65 and over	All Ages	0-	5-	15-	25-	45-	65 and over	All Ages	All Ages	per hundred Deaths
County Boroughs—contd. Southampton Southend-on-Sea Southport South Shields Stockport Stoke on Trent Sunderland Tynemouth Wakefield Wallasey Walsall Warrington West Bromwich West Ham West Hartlepool Wigan Wolverhampton Worcester York Cardiff Merthyr Tydfil Newport (Mon.) Swansea	182 64 		200 — 247 — 274 233 — 139 364 — 94 625 — 108 278 — 150 — 172 561	325 149 291 479 299 450 348 449 148 400 273 360 279 346 168 369 380 129 424 235 318 462	1,694 316 619 2,389 809 979 1,082 822 417 642 1,260 385 1,279 656 1,467 198 809 870 640 1,086 1,389 488 743	930 667 435 1,509 1,290 1,892 1,343 1,111 714 1,053 1,081 938 882 1,081 — 513 833 — 976 1,058 — 976 1,058 1,061	587 192 313 862 417 508 485 427 161 281 526 282 429 346 487 143 362 361 276 493 418 294 499	278 	81	67 — 361 520 139 — 411 169 189 182 97 — 60 233 — 278	264 43 81 530 239 210 308 707 357 60 393 172 274 194 357 236 40 444 — 370 638 305 86	189 88 411 93 334 186 — — 68 104 215 140 — 152 357 — 156 238 231 303	472 132 — 373 472 444 250 556 — 227 106 — 208 200 556 —	193 59 20 331 94 248 200 267 136 91 191 72 183 115 133 94 73 250 18 180 340 147 145	381 119 143 591 247 378 336 346 149 178 358 173 307 228 303 118 215 302 142 328 376 218 317	313 628 425 365 237 302 438 474 278 611 602 536 459 341 300 560 560 529 447 355 422 574 288
Administrative Counties Bedfordshire Berkshire Buckinghamshire Cambridgeshire Cheshire Cornwall Cumberland Derbyshire Devon Dorset Durham Ely, Isle of Essex Gloucestershire Herefordshire Hertfordshire Huntingdonshire Kent Lancashire Leicestershire	96 	53 - 55 - 9 - 20	35 21 41 65 77 42 83 33 122 57 55 49	137 72 224 247 113 330 274 215 328 387 212 214 163 266 238 184 ——————————————————————————————————	317 637 261 707 649 497 596 499 483 428 698 612 463 614 124 268 455 700 608 562	840 519 575 652 560 448 430 415 371 710 469 222 544 488 781 558 — 560 603 183	184 209 185 309 244 265 267 232 260 299 273 227 212 267 194 179 108 304 294 261		179 18 ———————————————————————————————————	49 72 21 238 125 93 75 240 152 48 85 — 122 — 117 155	153 48 70 127 87 309 291 163 158 121 314 — 164 130 180 117 — 164 182 214	132 111 127 96 61 170 39 74 38 184 211 99 139 113 121 137 253 94 113 247	152 374 123 74 158 171 164 132 233 122 113 204 109 31 — 185 — 163 131 105	103 89 76 70 65 184 129 92 100 100 186 89 105 82 77 106 62 110 119 146	144 149 130 186 150 223 198 161 175 196 229 <i>157</i> 156 172 <i>134</i> 141 87 201 202 202	847 449 584 439 362 357 602 427 261 311 443 407 534 465 582 576 783 487 388 329

Area	+1		- 1	Males	300 100 100 100	799-11	108 - 138 188			Fem	nales	137 137 253	1825	100	Persons	Notifica- tions
My Jule of Same Same Same Same Same Same Same Same	0-	5-	15-	25-	45-	65 and over	All Ages	0-	5-	15-	25-	45-	65 and over	All Ages	All Ages	hundred Deaths
Administrative Counties—contd. Lincolnshire (Parts of Holland) Lincolnshire (Parts of Kesteven) Lincolnshire (Parts of Lindsey) London Middlesex Norfolk Northamptonshire Northumberland Nottinghamshire Oxfordshire Peterborough, Soke of: Rutland Shropshire Somerset Southampton Staffordshire Suffolk, East Suffolk, West Surrey Sussex, East Sussex, West Warwickshire Westmorland Wight, Isle of Wiltshire Worcestershire Yorkshire, East Riding Yorkshire, North Riding Yorkshire, West Riding Anglesey Brecknockshire Caernarvonshire Cardiganshire Cardiganshire Cardiganshire Carmarthenshire Denbighshire Flintshire Monmouthshire Montgomeryshire Pembrokeshire Radnorshire		7 		267 273 164 238 163 110 350 309 170 176 208 — 302 140 197 286 178 112 154 207 181 143 541 — 102 259 346 169 168 800 128 296 110 157 121 780 343 192 207 547	259 672 475 961 470 102 614 425 463 51 779 385 272 673 421 624 359 294 566 315 562 375 377 468 680 480 558 454 635 451 1,329 909 704 343 814 792 1,111 736 164 680 345	465 156 610 1,505 662 300 544 599 282 263 — 435 595 376 484 588 735 606 612 464 670 263 952 787 438 377 213 531 1,538 1,467 286 729 500 339 882 1,481 802 435 476 909	180 227 211 440 237 84 332 277 230 101 286 88 175 286 179 269 229 178 255 216 253 191 159 225 213 272 256 185 218 536 212 624 275 339 178 442 440 472 336 93 383 182		50 	274 91 99 93 41 ———————————————————————————————————	72 144 159 181 188 79 250 123 295 78 333 75 180 96 255 34 68 148 110 168 146 109 195 57 111 166 232 180 — 137 296 132 38 221 191 384 625 173 323 222 370	172 219 90 164 91 183 57 55 111 48 — 126 170 129 135 281 123 83 112 1266 100 106 75 95 189 102 1555 97 127 104 123 41 130 225 198 — 231 351 172 —	156 ————————————————————————————————————	78 122 105 139 111 102 106 76 148 45 — 109 78 133 68 171 98 119 94 79 93 92 84 78 108 117 100 131 108 71 136 180 70 127 179 192 246 148 163 151 222	128 175 158 279 170 93 216 175 189 73 141 98 128 206 123 220 161 149 168 139 166 141 119 146 163 192 175 159 161 277 142 363 225 204 206 361 276 361 276 361 276 361 277 361 361 276 361 361 361 361 361 361 361 361 361 36	446 383 367 505 572 683 240 588 364 923 833 600 303 388 577 379 309 344 533 536 430 675 438 414 397 353 305 313 504 407 450 362 300 511 750 264 382 400 394 567 213 175

Table LXVI.—Death rates per million living at ages 0-14 by sex from tuberculous meningitis and other non-respiratory tuberculosis in Standard Regions, County Boroughs and Administrative Counties, 1952

Authoritionalers Assessing	Ma	iles	Fem	ales	Gleriorgenshine	Ma	ales	Fem	ales
Area	Tuberculous meningitis	Other non- respiratory tuberculosis	Tuberculous meningitis	Other non- respiratory tuberculosis	Enchaptishira Carminaninte Carminaninte Carminaninte	Tuberculous meningitis	Other non- respiratory tuberculosis	Tuberculous meningitis	Other non-respiratory tuberculosis
England and Wales Standard Regions: Northern East and West Ridings North Western North Midland Midland Eastern London and South Eastern Southern Southern South Western Wales County Boroughs Barnsley Barrow-in-Furness Bath Birkenhead Birmingham Blackburn Blackpool Bolton Bootle Bournemouth Bradford Brighton Bristol Burnley Burton upon Trent Bury Canterbury Carlisle Chester Coventry Croydon Darlington Derby Dewsbury Doncaster Dudley Eastbourne East Ham	34 47 36 63 17 50 14 19 36 21 30	9 13 11 14 7 13 3 5 13 6 7 15 106 32	32 36 44 50 34 46 12 16 17 34 38 106 235 — 160 30 — 62 354 — 98 — 20 116 — — 119 — — —	6 	County Boroughs—contd. Exeter Gateshead Gloucester Great Yarmouth Grimsby Halifax Hastings. Huddersfield Ipswich Kingston upon Hull Leeds Leicester Lincoln Liverpool Manchester Middlesbrough Newcastle upon Tyne Northampton Norwich Nottingham Oldham Oxford Plymouth Portsmouth Preston Reading Rochdale Rotherham St. Helens Salford Sheffield Smethwick Southampton Southend-on-Sea Southport South Shields Stockport Stoke on Trent Sunderland Tynemoutth	65 	19 	145	10 13

Developing Same	Ma	les	Fem	ales	Surfacety 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Ma	les	Fem	ales
Area	Tuberculous meningitis	Other non- respiratory tuberculosis	Tuberculous meningitis	Other non- respiratory tuberculosis	Area	Tuberculous meningitis	Other non- respiratory tuberculosis	Tuberculous meningitis	Other non- respiratory tuberculosis
County Boroughs—contd. Wakefield Wallasey Walsall Warrington West Bromwich West Harm West Hartlepool Wigan Wolverhampton Worcester York Cardiff Merthyr Tydfil Newport (Mon.) Swansea Administrative Counties Bedfordshire Berkshire Buckinghamshire Cambridgeshire Cheshire Cornwall. Cumberland Derbyshire Devon Dorset Durham Ely, Isle of Essex Gloucestershire Hertfordshire	54 69 —	27 ————————————————————————————————————	78 110 105 110 235 56 194 149 12 30 83 12 41 38 22 61 23 36 79 83 29		Administrative Counties—contd. London Middlesex Norfolk Northamptonshire Northumberland Nottinghamshire Oxfordshire Peterborough, Soke of: Rutland Shropshire Somerset Southampton Staffordshire Suffolk, East Suffolk, West Surrey Sussex, East Sussex, West Warwickshire Westmorland Wight, Isle of Wiltshire Worcestershire Yorkshire, East Riding Yorkshire, North Riding Yorkshire, West Riding Yorkshire, West Riding Yorkshire, West Riding Yorkshire, West Riding Yorkshire Caernaryonshire Carmarthenshire Denbighshire Flintshire Glamorganshire Merionethshire Monmouthshire Montgomeryshire Pembrokeshire Radnorshire	21 46 39 15 118 — 56 20 13 96 42 41 29 33 132 94 40 47 67 43 161 — 110 — 34 — 217	6 — — — — — — — — — — — — — — — — — — —	22 4 23 36 20 64 52 — 91 40 29 65 42 — 7 32 35 — 23 22 90 — 44 169 175 86 — 119 — 35 — 59 — — — — — — — — — — — — — — — — —	23 16 — 14 — 90 — 96 — 23 90 — — — — — — — — — — — — —

Table LXVII.—Tuberculosis of respiratory system: Deaths and Standardized Mortality Ratios* by Social Class for Men (Occupied or Retired) and Married Women aged 20-64 years, 1950

	M	EN (Occupied or Retired		E SE E SE E	MARRIED WOMEN	
Social Class, Sub-Class or Socio-economic group	Deaths registered	Deaths expected	S.M.R.	Deaths registered	Deaths expected	S.M.R.
I. PROFESSIONAL	155	244	64	38	88	43
II. INTERMEDIATE	727	1165	62	222	429	52
II(i) Farmers	73	158	46	24	52	46
III. SKILLED	3650	3530	103	1429	1377	104
IIIa. Mineworkers, all types IIIa(i) Hewers and Getters (coal)	197 165	140	141 162	87 71	60	145 161
IIIb Transport workers	398	393	101	200	161	124
IIIc Clerical workers	410	297	138	97	106	92
IIId Armed Forces	185	87	213	49	17	288
IIIe Others in III	2460	2611	94	996	1037	96
IIIe(i) Foremen, and overlookers, in Metal, etc.	28	73	38	15	29	52
IV. PARTLY SKILLED	1078	1138	95	424	398	107
IVa Agricultural	139	239	58	65	75	87
IVb Others in IV IVb(i) Mineworkers (coal)	939 159	901 167	104 95	359 63	323 58	111 109
v. unskilled	1416	949	149	457	275	166
Va Building and dock labourers Va(i) Building labourers Va(ii) Dock labourers	258 181 77	257 213 45	100 85 171	116 87 24	79 63 14	141 138 171
Vb Others in V	1158	691	168	346	198	175

^{*}Figures calculated on less than 50 deaths are in italics.

Table LXVIII.—Tuberculosis of respiratory system: Death rates* per 10,000 all causes, for Men (Occupied or Retired) and Married Women aged 20-64 and 65 and over, 1950

Yn Children in Y		MEN (Occup	ied or Retired)		346	MARRII	ED WOMEN	1.332
Social Class, Sub-class, or Socio-economic group	20-	64	65 and	l over	20-	-64	65 and	d over
THE PROPERTY OF THE PARTY OF TH	Deaths	Per 10,000 all causes	Deaths	Per 10,000 all causes	Deaths	Per 10,000 all causes	Deaths	Per 10,000 all causes
I. PROFESSIONAL	155	549	45	72	38	292	7	(46)
II. INTERMEDIATE	727	573	164	58	222	365	35	46
II(i) Farmers	73	460	13	22	24	2497	10	62
III. SKILLED	3650	894	691	99	1429	736	77	39
IIIa Mineworkers, all types IIIa(i) Hewers and getters (coal)	197 165	886 973	86 69	131 131	87 71	774 874	5 4	(29)
IIIb Transport workers	398	895	48	93	200	908	4	(26)
IIIc Clerical workers	410	979	52	116	97	635	10	83
IIId Armed Forces	185	2304	19	145	49	1713	3	(128)
IIIe Others in III IIIe(i) Foremen, and overlookers in Metal, etc.	2460 28	843 473	486	92 (115)	996 15	698 489	55	37
IV PARTLY SKILLED	1078	821	227	86	424	646	27	38
IVa Agricultural	139	565	39	41	65	485	9	(35)
IVb Others in IV	939 159	881 778	188 31	112 98	359 63	688 531	18 2	40 (23)
V. UNSKILLED	1416	934	313	133	457	738	30	. 54
Va Building and dock labourers	258	951	52 26	105 72	111 87	830 837	ADMERS 5	(41)
Va(i) Building labourers Va(ii) Dock labourers	181 77	851 1312	26 26	199	24	805	2	(78)
Vb Others in V	1158	930	261	140	346	712	25	57

^{*}Figures calculated on less than 50 deaths are in italics

^{*}Figures calculated on less than 10 deaths are in brackets

SYPHILIS AND AORTIC ANEURYSM

The number of deaths ascribed to syphilis and its sequelæ in 1952 was 1,619, of which 1,097 were of males and 522 were of females. In accordance with the Sixth Revision of the International Classification, the principal conditions under this head, and their number of deaths in 1952, comprise:—

	020	Congenital syphilis	M 17	F 15
	021	Early syphilis	1	2
13	022	Aneurysm of aorta (unless specified non-syphilitic)	435	222
	023	Other cardiovascular syphilis	388	173
	024	Tabes dorsalis	100	27
	025	General paralysis of the insane	78	45
	026	Other syphilis of central nervous system	50	21
1	027	Other forms of late syphilis	23	13
	028	Latent syphilis	-	
	029	Syphilis, unqualified	5	4
020-	029	Total	1,097	522

The effect of the change from Fifth to Sixth Revision of the classification is demonstrated in the table below which compares the numbers of deaths assigned to various categories in 1949 according to the two revisions:—

5th Revision			6th Revision						
	M	F		M	F				
30 Syphilis	1,413	642	020-029 Syphilis	1.290	491				
30a Tabes dorsalis	114	20	024 Tabes dorsalis	114	20				
30b General paralysis of the	162	65	025 General paralysis of	f	001				
insane			the insane	161	65				
30c Aortic aneurysm	683	349	022 Aortic aneurysm	515	191				
30d Other	454	208	Rem. 020-029 Other	500	215				

The effect of change to the sixth revision was therefore to decrease the total number of deaths ascribed to syphilis by 9 per cent for males and by 24 per cent for females, much of the decrease being in the group aortic aneurysm. Prior to 1950 all deaths from aortic aneurysm, whether described as due to syphilis or not, were assigned to the group of syphilitic diseases. Since 1950, however, deaths from aortic aneurysm described as non-syphilitic rubric, namely No. 451 aortic aneurysm specified as non-syphilitic, and dissecting aneurysm. These "non-syphilitic" aortic aneurysms will be further discussed below.

Trend

Mortality attributed to syphilis has declined during the course of the past 50 years. Taking 1938 as unit base year the Comparative Mortality Index for 1901-05 was in the vicinity of 2·0, had declined to under 1·5 by 1920, to 1·2 by 1930, and to 0·9 by 1940. The subsequent trend is shown in Table LXIX., (page 140) the mortality index for each sex each year since 1948 being half or less than half what it was in 1938. The crude rates for the principal types of syphilitic disease indicate that there has been no decline in mortality from aortic aneurysm since 1940, a large reduction in mortality from tabes dorsalis and general paralysis of the insane, and approximately a halving in the combined mortality from other syphilitic disease.

Outstanding among these other forms of syphilitic disease has been the reduction in mortality from congenital syphilis (not distinguished in Table LXIX., page 140), deaths from which numbered 365 in 1932, 148 in 1942, and 32 in 1952.

Sex and Age Differences

At every age the death rate from syphilis is higher among males than females. In infancy there were 13 deaths of boys in 1952 compared with 8 deaths of girls. During childhood and adolescence very few deaths are recorded, but from 25 years of age the numbers increase with advancing age, reaching a maximum for males at 65-74 and for females at 75 and over. Death rates per million in 1950-52 (from Table LXX., page 141) are shown below:—

	All ages	Under 1	1-24	25-	45-	65-	75 & over
Male	56	42	0.8	10	110	290	261
Female	23	28	0.7	5	38	81	105

Urban-Rural Differences

Table LXX gives death rates per million in the aggregated conurbations, with Greater London separately distinguished, and in urban and rural districts.

In each sex the crude rates at all ages were highest in Greater London, due entirely to very heavy mortality at ages 65-74 and 75 and over. In contrast the mortality of infants in Greater London was low, while at intervening ages it approximated to the national average.

Outside Greater London rates in each sex tended to be a little lower in the conurbations than in other large urban areas, but the principal feature of the mortality distribution was the much lower mortality of males in the rural districts and of females in the smallest urban areas and in the rural districts. The reporting of syphilis on death certificates has always been regarded, for various reasons, as being somewhat incomplete, but little is known about geographical and other differences in the magnitude of the errors in the recorded figures. They are unlikely however to account for the very large differences in mortality recorded in Greater London and in the rural districts.

Aortic aneurysm, syphilitic and non-syphilitic

As explained above a distinction has been made since 1950 between deaths from aortic aneurysm, syphilitic or unqualified (No. 022) and aortic aneurysm described as non-syphilitic (No. 451). In 1949 when tabulation was carried out both by the 5th and the 6th Revision of the International Classification the numbers of deaths assigned to the relevant rubrics were:—

30c	5th Revision Aortic aneurysm	M 683	F 349
	6th Revision		
022	Aortic aneurysm Syphilitic and unqualified	days 0515:100	191
451 Tota	Aortic aneurysm Non-syphilitic or dissecting ld (6th Revision)	173 688	189 380

A further change in classification was introduced in 1952 when, in accordance with W.H.O., "Supplementary Interpretations and Instructions for Coding Causes of Death" the category No. 451 was extended to include "aortic aneurysm specified as arteriosclerotic or due to arteriosclerosis". Prior to 1952

*Manual of The International Statistical Classification of Diseases, Injuries, and Causes of Death; Addendum 1, 1953 (Page 23)

deaths so described would have been assigned to arteriosclerosis. The effect of this modification in coding practice in 1952 has been approximately to double the deaths assigned to No. 451 (aortic aneurysm, non-syphilitic or dissecting), the numbers of which had in any case been increasing during the previous years.

The trend of mortality from aortic aneurysm as a whole since 1931 is shown in Table LXXI., (page 142), the numbers of deaths since 1949 that were respectively assigned to No. 022 (syphilitic and unqualified) or to No. 451 being:—

	being (885)	22	4:	51	To	otal
	M	F	М	F	М	F
1949 1950	515 430	191 225	173	189	688	380
1951	475	204 202	212 234 550	189 204 231	642 709	429 435 678
1952	435	222	550	456	985	678

A detailed analysis of all the 1,663 deaths from aortic aneurysm in 1952 by site of aneurysm and by cause is given in Table LXXII., (page 143), and summarised below:—

		otal	Syp (022	hilitic 2 pt.)	Sypl	lot hilitic 51)	sta	se not ited 2 pt.)
	М	F	М	F	М	F	М	F
Abdominal Thoracic Other or not stated TOTAL	209 155 621 985	98 133 447 678	6 16 69 91	1 9 20 30	112 78 360 550	57 93 306 456	91 61 192 344	40 31 121 192

Out of a total of 307 aneurysms of the abdominal aorta only 7 were described as due to syphilis. Similarly only 25 aneurysms of the thoracic aorta and 89 other aortic aneurysms were stated to be syphilitic in origin out of totals of 288 and 1,068 respectively, the overall percentages in the three groups being 7 per cent syphilitic, 60 per cent non-syphilitic or with other cause stated, and 32 per cent with no cause stated.

Further details of site, type and cause of the 1,006 aortic aneurysms assigned to No. 451 are given in Table LXXIII., (page 144). The detailed allocation to sites in Tables LXXII., and LXXIII., was possible by reason of the large proportion of cases (75 per cent) where the cause of death had been confirmed by post-mortem examination. Numbers of deaths on which post-mortem examination was or was not held, are shown below.

	Total	Syphilitic (022 pt.)	Not syphilitic (451)	No cause stated (022 pt.)
P.M.	1,250	85	840	325
No P.M.	413	36	166	211

A re-arrangement of the data in Tables LXXII., and LXXIII., is made in Table LXXIV., (page) 145 to permit an easier comparison by site and cause between the reported sites and causes of dissecting and of other aortic aneurysm. The absence from the table of any dissecting aneurysms of syphilitic origin does not necessarily mean that none were reported. Those so certified, if any, would have been assigned to No. 022 and not distinguished as dissecting aneurysm in the tables.

Sex-Age Differences

Of the total of 1,663 deaths attributed to aortic aneurysm in 1952, 985 were of men and 678 of women. Two men died at ages 15-19 (assigned to No. 451) and one woman in the age group 20-24 (assigned to 022). Thereafter the numbers increased with age to reach their maximum at ages over 65 (Table LXXV, page 146), at which some two thirds of the total occurred. Deaths of men actually attributed to syphilis (all ages) outnumbered those of women by three to one (91 to 30). This ratio was lower for the other two categories of aortic aneurysm, viz., 1·2 to 1 (550 to 456) for non-syphilitic aneurysms and 1·8 to 1 (344 to 192) for aneurysms of unspecified cause. In males there was no difference in the age distribution of aneurysms described as syphilitic and non-syphilitic, but those of unstated cause tended to occur at a slightly younger age. In women, on the other hand, the non-syphilitic and unspecified aneurysms had similar age distributions, but those said to be syphilitic were too few in number for proper comparison to be made.

Table LXIX.—Syphilis: Comparative Mortality Indices and crude death rates per million living, England and Wales, 1940 to 1952.

	COMPAR	RATIVE MO INDICES	ORTALITY	CRUDI	E DEATH R.	ATES PER	MILLION I	LIVING
Year	Syph	ilis and its se 020-029	equelæ	Syphilis and its sequelæ 020-029	Aneurysm of aorta 022	Other cardio- vascular syphilis 023	Tabes dorsalis 024	General paralysis of insane 025
	Persons	Males	Females			Persons		
1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952	0.90 0.87 0.80 0.76 0.68 0.62 0.56 0.49 0.48 0.50 0.51	0·91 0·88 0·83 0·76 0·68 0·64 0·62 0·56 0·49 0·48 0·47 0·47	0.88 0.86 0.76 0.78 0.70 0.63 0.58 0.50 0.48 0.50	74 74 69 67 61 56 54 48 42 41 39 40	16 16 16 16 16 16 15 16 16 15 15 15 15	24 24 24 23 20 18 18 15 15 11 14 14 13	11 10 8 8 7 7 7 6 5 3 3 3 3 3	19 19 17 15 13 12 11 10 6 5 4 4

Table LXX.—Syphilis and its sequelæ (International Classification Nos. 020-029). Death rates per million living in England and Wales and population density aggregates, 1950 to 1952.

(Rates based on less than 10 deaths are shown in italics)

				MALES	100 May 100 Ma	TAR S	2 23	RHAS	REAK	2 25 25 F	EMALE	S S	NAT IN	l B
—	All	Under 1 year	1-24 yrs.	25-44 yrs.	45-64 yrs.	65-74 yrs.	75 yrs. and over	All	Under 1 year	1-24 yrs.	25-44 yrs.	45-64 yrs.	65-74 yrs.	75 yrs. and over
ENGLAND AND WALES	56	42	0.8	10	110	290	261	23	28	0.7	5	38	81	105
Conurbations, excluding Greater London Greater London Areas outside conurbations:	58 76	46 5	0·7 0·5	15 7	123 128	277 487	233 497	24 29	44 6	1·4 0·2	6 5	44 44	82 110	89 192
Urban districts with populations of 100,000 and over Urban districts with populations	71	4	0.7	9	148	364	338	27	8	0.7	3	51	99	110
of 50,000 and under 100,000 Urban districts with populations	60	26	1.8	15	116	283	270	26	40	1.8	8	39	83	118
of under 50,000 Rural districts	50 34	68 50	0·9 0·8	11 8	88 72	254 145	212 138	18 16	43 26	0.7	4 4	29 25	67 54	74 75

Table LXXI.—Aneurysm of aorta: Deaths and death rates per million living, England and Wales, 1931 to 1952.

	Number	of deaths	Death rate pe	r million livi
	Males	Females	Males	Females
1931	727	199	38	10
1932	704	205	37	10
1933	684	253	35	12
1934	723	263	37	12
1935	736	278	38	13
1936	786	303	40	14
1937	757	333	38	16
1938	757	351	38	16
1939	688	311	35	14
1940	678	279	34	13
1941	654	286	33	13
1942	634	277	32	13
1943	600	298	30	14
1944	575	338	28	15
1945	588	260	29	12
1946	666	292	32	13
1947	676	333	33	15
1948	643	316	31	14
1949	683	349	32	15
1949	688	380	33	16
1950	642	429	30	19
1951	709	435	34	19
1952	985	678	47	30

Figures for 1931 to 1939 (4th Revision Rubric No. 96) have been converted to 5th Revision classification (No. 30c) by application of factors:

Males '735; Females '611.

Figures for 1949 are shown both by 5th and 6th Revision classifications, and for 1950 onwards by 6th Revision classification (Nos. 022, 451).

Table LXXII.—Deaths assigned to aneurysm of aorta (International Classification No. 022) and to aortic aneurysm, non-syphilitic (International Classification No. 451), according to site of aneurysm and cause by sex, England and Wales, 1952.

April 24.0.5, April 27.0.5, April 27.0.5, April 27.0.5	1				022										45	1					
Site Site Source		mentic syphilis			out men syphilis		100	Total			Due to			Due to her cau			se not s			Total	1
Dissection 4 Aprile grob	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P	M	F	P
Abdominal Abdominal Left common iliac	6 6	1 1	77	91 90 1	40 40	131 130 1	97 96 1	41 41 —	138 137 1	92 92 —	49 49 —	141 141	1 1 -	3	4 4	19 19	5 5	24 24	112 112 —	57 57	169 169
Thoracic	16 3 5 —	9 4 2	25 7 7 —	61 13 21 —	31 10 9 2 2 2	92 23 30 2 2 3	77 16 26 —	40 14 11 2 2 2	117 30 37 2 2	24 4 5 —	28 4 4 - 2	52 8 9 - 2	10 1 7 —	20 10 7 1	30 11 14 1	44 19 14 — 3	45 23 8 	89 42 22 — 8	78 24 26 	93 37 19 1 7	171 61 45 1 10
Into pericardium Thoracic	8	3	11	23	1 5	4 28	31	1 8	39	15	18	33	2		4	8	9	17	25	29	54
Site not known Descending	69	20 	89 — — —	192 6 1 —	121 	313 6 1 306	261 6 1 	141	402 6 1 — 395	150 4 —	122 2 — 120	272 6 —	36 1 — 35	40 6 -	76 7 —	174 1 —	144 4 - 1	318 5 - 1 312	360 6 — 354	306 12 — 1	666 18
No statement Total	69 91	30	89 121	185 344	192	536	435	141 222	657	146 266	199	266 465	47	63	69	173 237	1 3 9 194	431	550	293 456	1000

Table LXXIII.—Deaths assigned to aortic aneurysm, non-syphilitic (International Classification No. 451) according to site, type and cause, by sex, England and Wales, 1952.

Ту	pe and Site	Due Arterios	to sclerosis	Due Ather			e to reous eration	Due to Cystic degeneration		Due to Hyaline Necrosis		Due to Medial Necrosis		Due to Mucoid Medial degeneration		Cause not stated (but non-syphilitic)		All	
Auto perie	ardina	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Aneurysm -	Abdominal aorta Aorta N.O.S. Aortic arch Ascending aorta Descending aorta First part of aorta Thoracic aorta	35 39 2 2 — — 3	20 17 1 — 1 8	50 41 2 2 3 — 6	29 13 — — 1 10	1	_ _ _ _ _	1111111		 1 	1 3 - - -	- 1 - -		1 = = = = = = = = = = = = = = = = = = =		1 - 2 - 3	 5 9	87 82 4 7 3 3	50 35 1 2 - 7 28
Dissecting Aneurysm	Abdominal aorta Aorta N.O.S. Aortic arch Ascending aorta Descending aorta Thoracic aorta	23 - - - 2	37	3 43 1 1 4	53 3 4 2	121 1 1000 or			1 - - -	1		- 4 1 - -	-2 6 	$\begin{array}{c c} \hline 7 \\ \hline 5 \\ \hline 2 \end{array}$	1 7 4 5 6 1	18 163 17 12 1 8	133 23 7 3	25 241 18 18 3 16	5 233 36 16 11 1
Ruptured Aneurysm -	Abdominal aorta Aorta N.O.S Aortic arch Aortic base Aortic wall Ascending aorta Descending aorta	CIZ:			(II)	\$4CZ0				19	19 —	- 1 - - 1		1 -	1 - 1 -	10 2	1 6 — 1 1 1	31 2 — 1	2 25 1 1 1 1
Total	CXII.—Destito	110	84	156	115	1	2	na) <u>—</u> an	1	21	23	9	10	16	27	237	194	550	456

Table LXXIV.—Deaths due to aortic aneurysm distinguishing dissecting aneurysm and other forms, according to site and cause, England and Wales, 1952.

Site and	cause		ysm" or aneurysm"	"Dissecting aneurysm"			
during the period		M	F	M	F		
rabingmons of de	Syphilis	6	1				
Abdominal	Arteriosclerosis or atheroma	85	49	7	_		
	Other (non-syphilitic)	2	3		1		
	Without mention of syphilis	91	40	18	4		
	Syphilis	16	9		_		
Thoracic and	Arteriosclerosis or atheroma	20	21	8	9		
descending	Other (non-syphilitic)	9	20	9	22		
	Without mention of syphilis	67	31	38	33		
	Syphilis	69	20	1 1 mm	100 <u>20</u> 100		
Aorta, not further	Arteriosclerosis or atheroma	80	30	66	90		
described	Other (non-syphilitic)	33	31	12	10		
the change amore white among were	Without mention of syphilis	186	121	163	133		

Table LXXV.—Aortic aneurysm—Deaths (syphilitic and non-syphilitic, and without mention of syphilis) by sex and age, and percentage distribution by age, England and Wales, 1952.

				Death	ıs					10.00		Perce	entage di	stributio	n by age		
_	Abdruis hors b doning hearysia Austin dogeno	menti	part) ith ion of hilis	Non-	51) syphilitic ssecting	(022 with menti sypl	out on of		nd 451) otal	(022 wi menti sypl	th on of	Non-sy	vphilitic secting	wit	part) hout ion of philis		nd 451) otal
146		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
	All Ages	91	30	550	456	344	192	985	678	100	100	100	100	100	100	100	100
	Under 45	4	1	23	5	5	6	32	12	4	3	4	1	1	3	3	2
	45-54	8	3	48	23	36	8	92	34	9	10	9	5	10	4	9	5
	55-64	21	12	124	97	106	43	251	152	23	40	23	21	31	22	25	22
	65 and over	58	14	355	331	197	135	610	480	64	47	64	73	58	71	63	71

CANCER

87,642 deaths from malignant neoplasms (I.S.C. Nos. 140-205) were registered in 1952, 45,429 of men and 42,213 of women. The total number of deaths from all causes registered during the year was 497,484, cancer accounting in each sex for 17.6 per cent. During the present century deaths from cancer have become increasingly important. However, not only has the total proportion attributed to cancer increased, but the sex ratio has shown a steady change. Until recent years the larger proportion of cancer deaths was among females, but the difference has progressively decreased until during the last few years the percentage of deaths attributed to cancer is the same for each sex.

The following table shows the percentage of cancer deaths to total deaths during the period 1921 to 1952. The figures in brackets show the corresponding proportions if cancer of the lung is excluded.

	Males	Females
1921-30	10.0 (9.7)	12.2 (12.1
1931-40	12.1 (11.1)	14.0 (13.7
1941-45	13.9 (11.9)	15.6 (15.1
1946-50	16.0 (12.8)	16.6 (15.9)
1951	15.8 (11.9)	15.5 (14.7
1952	17.6 (13.0)	17.6 (16.7

These changes have resulted from the interaction of several factors. Firstly, the increased proportion of the older adult population who are more susceptible to cancer than the young; secondly, the success of modern hygiene and therapy in preventing death from infectious diseases with the result that deaths from degenerative causes have become increasingly prominent; and, thirdly, the increasing mortality from cancer of the lung which predominantly affects males.

Table LXXVI., (page 163) shows that for both sexes the crude mortality rate from cancer (all sites) has risen since 1936 but that, while the equivalent average death rate (E.A.D.R.) for males aged 0-64 has risen, the female rate has slightly fallen. These rates and the age specific rates are shown as percentages of the corresponding average rates for 1936-39 in Table LXXVII., (page 164), where it is seen that, neglecting those under 35 who contribute little to the total, the change among men is greatest between the ages 45 and 65 and over 75, while among women the rates changed most between ages 45 and 75. That the change in sex ratio is mainly due to the rapid increase of cancer of the lung in men is shown by the figures in brackets in the table above, which demonstrate that this cancer apart the increase in the ratio of cancer deaths to total deaths has been about the same in each sex. If the figures for cancer of the lung are deducted, the crude death rate for women in 1952 had risen to 10 per cent more than the 1936-39 average while that for men had risen 7 per cent only. The E.A.D.R. for men under 65 fell 13 per cent and that for women 11 per cent.

The numbers of deaths by sex and age from cancer at different sites are given for England and Wales for the year 1952 in Table 17. Part I. The malignant tumours (I.S.C. Nos. 140-199) are classified as carcinomas, sarcomas, gliomas and undefined in Table LXXVIII., (page 164).

Tables LXXIX and LXXX., (pages 165 and 167) shows sex- and age- specific death rates per million living from cancers of certain sites in England and Wales during 1952, and as a single group all neoplasms, whether malignant, benign or unspecified, of the brain and other parts of the nervous system.

Cancer by Site

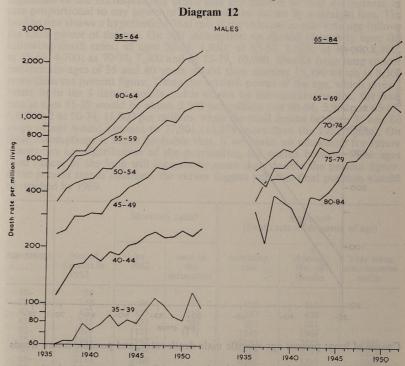
Table LXXXI., (page 169) shows for each year since 1936 the annual death rates, both male and female, for cancer of separate sites or groups of sites for nine age groups and the equivalent average death rates at ages under 35 and under 65. The rubrics of the International Statistical Classification of Diseases, Injuries and Causes of Death (6th Revision) are given at the head of each section; it will be noticed that some of the sites listed include part only of the present subdivisions. Every effort has been made to relate the present classification to the sites previously described and, except for some minor differences at older ages due to the present calculations being based on revised population estimates, these tables are comparable with those previously published (Statistical Review Vol. I Medical 1940-45, 1946-47, and 1948-49) extracts of which are given at the head of each section of Table LXXXI for 1911-20, 1921-30 and 1931-35. Owing to the recent fall in general mortality rates among children and adolescents, cancer as a cause of death at early ages has become relatively more important. As well as expressing the death rate at ages below 35 by a single figure E.A.D.R.(0-34), rates are now given for four age-groups; the E.A.D.R. for ages below 65 shows the importance of cancer mortality during the working period of life. In discussing variations or trends in the rates, attention has been concentrated upon the rise or fall as a proportion of the rate rather than upon numerical differences unrelated to the total of which they are a part.

The male death rate at ages from 35 upwards for cancer of all sites (I.S.C. Nos. 140 - 205) has risen since 1936, the rise having been most rapid between 45 and 55 years. Over age 75 the rate fell slightly between 1936 and 1944 and then rose until it is now 14 per cent higher than in 1936-40, reflecting to some extent the course of the death rate from all causes. The next section of Table LXXXI shows the death rate for all sites excluding lung and bronchus (I.S.C. Nos. 162 and 163) and, in comparison with the previous section, shows to what extent cancer of the lung has influenced the present mortality trends. At ages 55 to 74 rates have steadily fallen as also has the E.A.D.R. (0-64); between 35 and 45 there has been little change, while above 75 the trends are similar to those when cancer of the lung is included. The female death rate has been less influenced by cancer of the lung. In both sections the rates between ages 35 and 75 and the E.A.D.R. (0-64) have tended to fall. Over age 75 the rate fell slightly until 1944, since when there has been a rise. This sequence, a tendency for death rates at ages below 65 to fall while the rate above 75 remains constant or rises, is seen at several important sites, notably:-in both sexes: mouth, larynx, and rectum; in males: œsophagus and prostate; in females: stomach and uterus. At few sites only has the death rate above 75 years consistently declined and these are sites which contribute little to the total deaths from cancer; lips, liver, and skin in both sexes, and tongue in males. At the following sites death rates have risen in all age groups; males: lung, kidney, bladder, brain and central nervous system; and females: lung and ovary. The factors inducing these changing trends are complex and must vary from site to site. Possible explanations include:—(a) changes in the rate of incidence or average age incidence of certain cancers, due possibly to altering intensity of carcinogenic factors; (b) the influence of medical or surgical treatment in prolonging the life of those afflicted with cancer of certain sites; (c) the increased proportions of people alive in the older parts of the age-group over 75 years. This increase is however small and could not substantially affect the death rate.

Some indication of the factors responsible may be found by comparing mortality experience derived from registered deaths with the case registrations and crude survival rates derived from the Cancer Registration Scheme. This is done for some of the sites considered in later paragraphs; the case registrations used are those of 1947 and 1948,* which are more complete than the 1945-46 figures, while crude survival rates are taken from the 1945-46 case registrations, since analysis of the results of the 5-year follow up has not yet been completed for later years. The crude survival rate used is the proportion alive five years after registration of those who had not been treated prior to registration. Although case registration is very incomplete there is sufficient information at many sites to provide valuable indications.

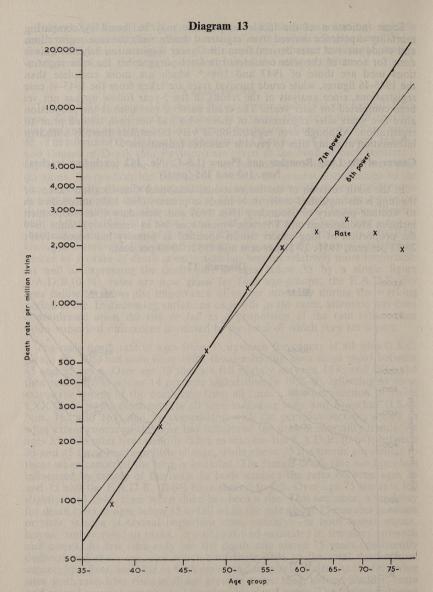
Cancer of the Lung Bronchus and Pleura (I.S.C. No. 162 (excluding trachea) Nos. 163 and 165 (part))

In the sixth revision of the International Statistical Classification cancer of the lung is distinguished under three heads as primary (No. 162), unspecified as to whether primary or secondary (No. 163) and secondary (No. 165, which includes Mediastinum and Thoracic organs specified as secondary). Since 1949 the proportion of lung cancer deaths specified as primary has been:—1949: 24·53 per cent, 1951: 27·31 per cent and 1952: 30·69 per cent.



Cancer of lung; male death rates per million living in five-year age groups 1936 to 1952

^{* 1947} and 1948 case registrations have been published in a supplement to the Statistical Review for 1949:—Supplement on General Morbidity, Cancer and Mental Health. (H.M.S.O. 7s. 6d. net).



Cancer of lung; present age-specific male death-rates, and possible future trends

The table shows an increase in the death rate for all ages and in both sexes since 1911. Not only is the male death rate at all ages higher, but the rate of increase in each age group has been more rapid compared with the corresponding female rate; the male E.A.D.R. (0-64) is now more than three and a half times and the female rate less than twice the 1936 figure, while over 75 years

the male rate has increased nearly five times and the female rate less than three and a half times. To afford a more detailed analysis of the changes in the male death rate they have been calculated in five year age periods and are shown in Diagram I2. During the last few years the rate of increase of the death rate below 50 years of age has lessened and at these ages there has been little change during the last five years. At ages 50-54 years there are some signs that the upward trend has slowed down or ceased, but above 65 years the rate of increase is, if anything, more rapid.

If we accept the suggestion that below 50-54 years the rate has stabilised, it is possible to make a tentative estimate of the future course of the mortality rates of carcinoma of the lung. Fisher and Hollman (1951) and Nordling (1953) found that between 25 and 75 years the death rate for non-genital cancers increased proportionately with a power of the age (usually the sixth). Using these assumptions and the suggestion above that the rate is now stable at certain ages, we have three or four points on the hypothetical curve of the trend and by extrapolation can forecast its final form. Diagram 13 shows this graphically; the figures used for the age group 35 to 49 are the means of the rates during the last five years, the remaining rates are those of 1952. The logarithm of the centre point of each age group has been plotted against the logarithm of the corresponding death rate per million so that an increase of rate proportional to any power of the age will be shown by a straight line. The broken line shows a hypothetical final rate if the increase in rate with age follows the sixth power of the age. On this assumption we should ultimately have the following death rates; at ages 50-54, 1,030; at 55-59, 1,800; at 60-64, 2,980; at 65-69, 4,700; at 70-74, 7,300 and at 75-79, 10,900. Deaths from lung cancer between the ages of 35 and 80 years would then number 19,990 which is 8,368 more than the present figure. Using the seventh power of the age, which gives a better fit to the 4 datum points and is shown by the continuous line, the final rate at ages 55-59 would be about 2,200 per million; at 60-64, 3,900; at 65-69. 6,800 and at 70-74, 11,000 per million, while the total deaths between 35 and 80 years of age would amount to 27,901 (16,279 more than the 1952 figure). On these assumptions it seems probable that, if we make no allowance for future changes in age distribution of the population, the deaths between these ages from cancer of the lung will increase to more than double the present figure. If the present trends continue, the curves suggest that this final position should be reached by 1969.

	564	Mortal	ity rates*	Projected (Death rate x 7th power of age)						
Age group	No. of Deaths in 1952	in 1952	used in the estimation	mortality rate	Annual No. of Deaths	Year when rates become stable				
30- 35- 40- 45- 50- 55- 60- 65- 70- 75-79	56 152 427 885 1599 2163 2229 2114 1348 705	96 255 555 1171 1942 2334 2700 2289 1865	95 239 565 1171	106 257 565 1146 2180 3930 6760 11200 17900	165 430 901 1565 2429 3753 5293 6597 6766	1955 1959 1961 1965 1969				
Total Deaths	11622		102 503 1301 235 154 155	io nollistica 18 Life Tabo	27901					

^{*} Based on unrevised population estimates—see note 1 on page IX.

The table on previous page shows the recorded male deaths and death rates in 1952 and the projected rates in 1969 in accordance with the assumption that the incidence of cancer of the lung increases with the seventh power of the age. The dates in the last column have been obtained from the average rates of increase during the last ten years.

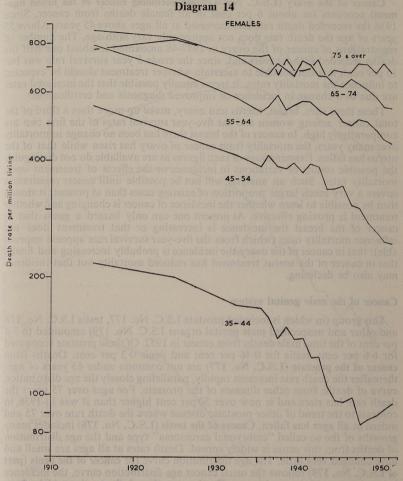
Cancer of the breast and female genital organs

This group accounts for 36 per cent of all deaths from cancer among women: within the group breast comprises 54 per cent, uterus 26 per cent and ovary 16 per cent. Cancer of the breast (I.S.C. No. 170) accounts for about 20 per cent of all female deaths from cancer. During the past 30 years the female death rate from cancer of the breast has changed little and recent developments in treatment do not appear to have improved the rate of survival. In 1924 Lane Claypon analysed the records of nearly 9,000 patients who had received what was then called the modern or complete operation and found a three year survival rate of 43 per cent; Harnett in 1939 analysed the London hospitals figures and found a five year survival rate of 31 per cent, the same figure being found in an analysis of the 1945 and 1946 cancer registrations. It is probable however that an increasingly large number of women have been afforded the chance of operative treatment in recent years and on these grounds alone it might be expected that the general death rate should fall. Whether this absence of change is due to an increase in incidence of breast cancer or to other causes cannot be resolved until the registration of cases of cancer during life is more complete than at present. The numbers of registrations under the cancer scheme have mounted steadily and in 1948, the last year for which figures are available, did actually exceed the number of deaths in that year; but not until better information is available of the number of cases that occur yearly shall we be in a position to advance any firm opinion as to the results of treatment.

Cancer of the Uterus (I.S.C. Nos. 171-174) amounts to about 10 per cent of all female deaths from cancer. Since 1950, if the uterine site has not been specified on the death certificate, the certifying practitioner has been asked whether further information is available and for a large proportion of deaths more accurate localisation has been possible. For the years 1946-49 and the years 1950-52 the proportions of deaths under the following sub-heads were:—

		Per	cent
		1946-49	1950-52
Total cancer of uterus (171-174)		100	100
Cancer of the cervix (171)	321627	44	64
Cancer of the corpus (172)		9	29
Cancer of the uterus, unspecified (174)		46	6

The remainder of this group (I.S.C. No. 173) Chorionepithelioma and other parts of the uterus, accounted for less than 1 per cent of the total. Considering cancer of the uterus as a single entity, below 75 years of age the death rate at all ages has fallen, most markedly since 1940, and at a proportionately faster rate between the ages of 35 and 55 than at other ages. Above 75 years of age there has been little change (see Diagram 14). Carcinoma of the uterus is a disease of middle life, incidence being greatest between 50 and 60 years of age and the natural (untreated) mean duration being given by Greenwood (1926) as about 20 months. If this were the whole story the death rate should tend to fall after about the age of 60; this was so to some extent between 1911 and 1920 when the death rate over 75 was exceeded by that at ages 55-74 and between 1921 and 1930 when it was exceeded by that at ages 65-74 (Diagram 14). To what extent this was due to non-recognition of uterine cancer in the very old cannot be decided, but the more recent fall at earlier ages combined with the absence of change beyond 75 years suggests the intrusion of other factors.



Cancer of Uterus; death rates per million living according to age, 1911-20, 1921-30, 1931-35 and 1935 to 1952

The rate of registration of cancer of the uterus under the national registration scheme is high; in 1948 the ratio of cases registered during life to deaths was four to five and, of those registered, less than 7 per cent were untreated, while the 5 year survival rate of all those treated after registration was 36 per cent; it would seem possible therefore to attribute much of the declining rates to the effect of treatment, though a greatly diminished incidence with a later average age of onset could produce a similar effect. (On the assumption that the incidence remains constant and the death rate follows (with extrapolation) that calculated from the follow-up of registered cases in 1945-46, a theoretical death rate for cancer of the uterus was computed, and it was found that the expected death rate at older ages approximated closely to the average from 1947 to 1951 and did not fall with increasing years).

Cancer of the ovary (I.S.C. No. 175 but excluding cancer of the broad ligament) accounts for about 6 per cent of all female deaths from cancer. Since 1936 the recorded death rate has increased at all ages above 45 years. Above 55 years of age the death rate does not appreciably vary with age. The number of registrations of cancer of the ovary in 1947-48 amounted to about one half the deaths recorded in those years and, since the crude 5 year survival rate was but 15 per cent, it is not possible to ascertain whether treatment should be expected to influence the mortality rates. It seems equally possible that the increased rates are due to a change in incidence or improved diagnosis and certification.

These three sites, breast, uterus and ovary, make up more than a third of the total cancer among women and the five-year survival rates of the first two are comparatively high. In cancer of the breast there has been no change in mortality over many years, the mortality from cancer of ovary has risen while that of the uterus has fallen. Examinations of such figures as are available do not distinguish the possible results of variations in incidence or the effects of treatment upon mortality rates. Such an analysis will not be possible until cancer registration covers a very much larger proportion of existing cases than at present; it should then be possible to learn whether the incidence of cancer is changing and whether treatment is proving effective. At present one can only hazard a guess that in cancer of the breast the incidence is increasing or that treatment does not influence mortality rates (which from the five-year survival rate appears improbable); that in cancer of the ovary the incidence is probably increasing and finally that in cancer of the uterus treatment has reduced mortality but that incidence may also be declining.

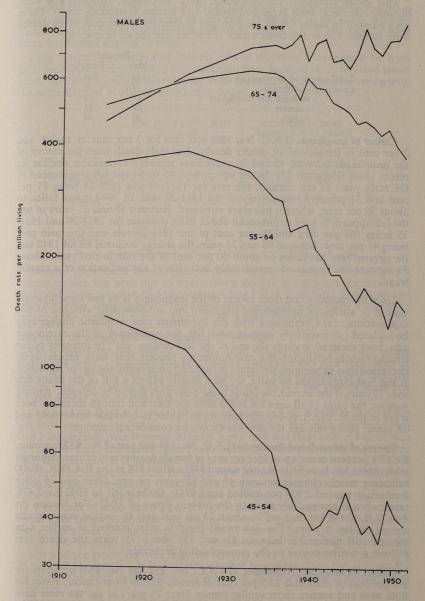
Cancer of the male genital system

This group (in which is included prostate I.S.C. No. 177, testis I.S.C. No. 178 and other and unspecified male genital organs I.S.C. No. 179) amounted to 7.4 per cent of the total male deaths from cancer in 1952. Of these prostate accounted for 6.6 per cent, testis for 0.46 per cent and penis 0.3 per cent. Deaths from cancer of the prostate (I.S.C. No. 177) are not common under 65 years of age; thereafter the death rate increases rapidly, paralleling closely the age distribution curve of deaths from other diseases of the prostate. For ages over 75 years the death rate has risen and is now over 50 per cent higher than it was in 1936, in contrast to the trend of other prostatic disease where the death rate over 75 and indeed at all ages has fallen. Cancer of the testis (I.S.C. No. 178) includes many growths of the so-called "embryonal carcinoma" type and the age distribution of deaths from this cause is widely spread. Death rates at all ages are small and have changed very little. The age distribution curve for cancer of the penis (part of I.S.C. No. 179) follows the usual cancer age distribution curve, the incidence being greater with increasing age. Death rates, though fluctuating widely, have tended to fall especially below 75 years of age.

Cancer of the bladder (I.S.C. No. 181)

This site accounts in males for 4 per cent and in females 2 per cent of the total cancer deaths. At all ages and in both sexes the death rates have risen steadily, female less than male, while at corresponding ages the female death rate is about one third of the male. In the older age-groups the male rate is now nearly double what it was in 1911-20 while the equivalent average death rate (E.A.D.R.) at ages 0-64 is now 40 per cent above the 1936 figure. Carcinoma of the bladder is an industrial hazard in certain processes in the chemical industry and some of the increased mortality may be due to the action of a recently effective irritant rather than to improvements in diagnosis or certification.

Diagram 15



Cancer of Œsophagus; male death rates per million living according to age, 1911-20, 1921-30, 1931-35 and 1936 to 1952

Cancer of the digestive tract

This group comprises the following sites: esophagus, stomach and duodenum, intestines, both large and small, and rectum (excluding anus). These sites account in males for 38 per cent and in females 36 per cent of all deaths from cancer. The proportions within the group are shown below:—

		Per	cent
		Male	Female
Total cancer of the digestive tract	 	100	100
Cancer of œsophagus	 	9	6
", " stomach and duodenum	 	47	42
,, ,, intestine	 	25	37
rectum	 	20	16

Cancer of esophagus (I.S.C. No. 150) accounts for 3 per cent in males and 2 per cent in females of all cancer deaths. The male death rates for cancer of the esophagus between 45 and 75 years have shown a remarkable decline in recent years (Diagram 15). In the age groups 45 to 54 the fall commenced in the early years of the century, the rate for 1921-30 and 1931-35 being 81 per cent and 51 per cent respectively of the 1911-20 rate. In 1940 it had fallen to about 30 per cent, where it has since remained. Between 55 and 65 years of age the fall appears to have commenced about 1930, the rates for 1921-30 and 1931-35 being 108 per cent and 96 per cent of the 1911-20 rate and the ratio now being 41 per cent. Between 65 and 75 years the change occurred about 1940 and the present rate has fallen to about 60 per cent of the rate in that year. Above 75 the rate has fluctuated considerably but without any indication of a regular trend.

Since the recovery rate from cancer of the œsophagus is so low these changes cannot be attributed to improved treatment and are consistent with one of two explanations: (a) Conforming with the hypothesis that neoplastic change may be initiated comparatively early in adult life, the prevalence of the carcinogen may have declined towards the end of the last century. (b) The intensity of the irritant factors producing the carcinomatous process may have progressively decreased thus prolonging the latent period and postponing the age of incidence. If the first explanation be valid, we may shortly expect a fall in the death rate over 75 years, if the second, the fall at these older ages should be delayed. Among women, the rates at all ages are lower than for men and though there has been a fall in the E.A.D.R. (0-64) this appears to be due to a decline between 45 and 55 years; above this age the rate has shown no considerable change.

Cancer of stomach and duodenum (I.S.C. No. 151 and part of No. 152) accounts for 17·8 per cent of male and 15·1 per cent of female deaths from cancer. Amongst males there has been little change since 1936, a slight fall in the E.A.D.R. (0-64) reflecting mainly changes between 45 and 55 years of age. Over age 75 after fluctuating around 2,700 per million until 1941, the rate fell in 1942 to 2,438, since when it has steadily risen to the present figure of 3,042. For women the E.A.D.R. (0-64) has declined by about 25 per cent over the period, most rapidly during the last 8 years. The downward trend is most marked at earlier ages though still discernible between 65 and 75; above 75 years the death rate follows a similar course to the corresponding male rate.

Cancer of intestines (remainder of I.S.C. No. 152 and No. 153) accounts for 9·3 per cent of male and 13·5 per cent of female deaths from cancer. Rates for both men and women show similar trends. Over 75 years of age the rates have shown no change since 1936 but at lower ages and especially since 1945 the rates have fallen. The E.A.D.R. (0-64) has declined about 30 per cent for males and 20 per cent for females since 1936.

Cancer of the Rectum (I.S.C. No. 154) caused 7.5 per cent of male and 5.7 per cent of female deaths from cancer. At all ages the rate for females was lower than that for males. The E.A.D.R. (0-64) has fallen in both sexes, falling more rapidly since 1945 (for males 30 per cent and for females 18 per cent). All ages under 75 have participated in this fall while above age 75 the rate in both sexes has tended slightly to rise.

Only a small proportion of cancers of the digestive tract appear to have been registered during life and it is uncertain how many of them received treatment. Five year survival rates from the 1945-46 registrations are given below with the percentage of newly registered cases found suitable for treatment.

ive 75 there lad the rates	Five year S (per o	urvival Rate cent)	Percentage of newl registered cases trea				
nd 1948 wais	Male	Female	Male	Female			
Œsophagus	1	3	61.1	66.7			
Stomach	5	3	35.5	32.7			
Intestine	10	14	67.2	65.4			
Rectum	11	17	73.5	73.3			

It seems improbable that the fall in death rates from cancer of the stomach among women has been due to treatment; a decline in incidence appears more likely, while the absence of any corresponding fall in male rates is striking and invites further investigation. Treatment may however have been a factor in reducing the mortality rate in cancer of the intestine and rectum.

Cancer of the mouth and upper respiratory passages

This group comprises lips (I.S.C. No. 140), tongue (I.S.C. No. 141) mouth and tonsil (I.S.C. Nos. 143-144 and part of 145), pharynx (the remainder of I.S.C. No. 145, Nos. 146, 147 and 148) and larynx and trachea (I.S.C. No. 161 and part of 162 and 165). The group accounted for 4·7 per cent of male and 1·8 per cent of female total cancer deaths in 1952.

Cancer of the lip (I.S.C. No. 140) now amounts to only 0.2 per cent for males and 0.04 per cent for females of total cancer deaths. The male rate has fallen very considerably over the past 30 years being now less than half of what it was in 1911-20. Since the male registrations outnumber the deaths by rather more than three to one it is probable that a considerable proportion of this fall is due to treatment rather than to diminished incidence; female rates have also fallen but less dramatically. For females the proportion of deaths to registered cases is slightly less than for males. Cancer of tongue (I.S.C. No. 141) accounted for 1 per cent of male and 0.3 per cent of female deaths from cancer. Rates for males have fallen at all ages but mainly below 75 years, the E.A.D.R. (0-64) being now about one quarter of the 1936-37 figure. The female death rate has shown little change. In 1947-48 the registrations nearly equalled the recorded deaths and the crude survival rates (five years) were 14 per cent for males and 30 per cent for females. It is doubtful whether treatment alone can account for the fall in the male death rate which may also reflect a considerable decline in incidence.

Cancer of mouth and tonsil (I.S.C. Nos. 143-144 and part of 145) accounts for 0.9 per cent for males and 0.3 per cent for females of total cancer deaths. At ages below 75 male rates fell until 1949, since when there has been a slight rise.

[The E.A.D.R. (0-64) in 1949 was less than one third of that in 1936-38]. Over age 75 the death rate has not changed. In 1947 and 1948 the registrations of cancer of the mouth and tonsil were approximately double the recorded deaths in those years, suggesting that successful treatment has considerably influenced the mortality rates. Cancer of pharynx (rem. of I.S.C. No. 145, Nos. 146, 147. and 148) was the site of 0.9 per cent of male and 0.7 per cent of female deaths from cancer. The trends of male mortality closely follow those of the mouth and tonsil, falling at ages between 55 and 75 until 1948 and then rising slightly. Female rates did not appear to change. At this site registrations were nearly double the recorded deaths in 1947-48 and the conclusion that the treatment was the main factor in producing the decline in rates appears justified. Cancer of the larvnx (I.S.C. Nos. 161, part of 162, and part of 165) caused 1.7 per cent of male and 0.5 per cent of female deaths from cancer. Above 75 there has been no change in the male rate but both the E.A.D.R. (0-64) and the rates between ages 45 and 75 have fallen by about 40 per cent since 1936 while the female rates have remained constant. Since registration in 1947 and 1948 was for men about 57 per cent and for women 25 per cent of the recorded deaths, no inference as to the effect of treatment on mortality can be drawn. The five-year crude survival rate for both sexes was about 20 per cent.

Cancer of the skin (I.S.C. Nos. 190, 191)

The table includes deaths from malignant melanoma, rodent ulcer and all other cancers of the skin. Melanoma accounts for a quarter of one per cent of all male and just under one half of one per cent of female deaths from cancer; two thirds of the deaths from melanoma occurred before the 65th year while four fifths of the remaining cancers of the skin were recorded after that age. Cancer of the skin other than melanoma accounted for 0.8 per cent of male and 0.7 per cent of all female deaths from cancer. Male rates have fall at all ages over 55 and most markedly in the 75 and over age group where the rate is now less than one half of that in 1936. Female rates under 65 years have changed little but above that the fall corresponds to that for males. In 1947-48 the registrations outnumbered deaths by more than six to one, suggesting that the survival rate was even higher than that given at most clinics. Increased facilities for treatment rather than improvement in technique are probably responsible for most of the fall in mortality; there is no evidence to suggest what effect if any may be due to a change in incidence.

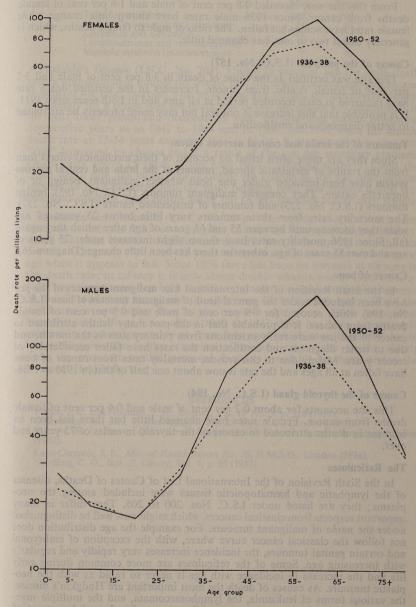
Cancer of the kidney (I.S.C. No. 180)

This was recorded as the cause of death in 1·4 per cent of male and 1·1 per cent of female deaths from cancer. Death rates have tended to rise at all ages from 55 upwards among males, most noticeably since 1947; for ages above 65 the rate in 1952 was approximately double that of 1931-35. Female death rates at ages 65 and upwards have slightly increased, but below that there has been no change.

Cancer of the liver (I.S.C. No. 155 (part) and No. 156)

This site accounted for 1.6 per cent of male and 1.4 per cent of female deaths from cancer. The downward trend that started in the early years of the century has continued and the present rates are but a fraction of those for 1911-20 when they amounted to about 10 per cent of all cancers. This must be taken as a measure of improved diagnosis and certification, whereby many cases, where death was previously attributed to terminal metastases in the liver, are now allocated to their proper primary site. Of those deaths attributed to cancer of the liver in 1952 only 24 per cent of male and 21 per cent of female deaths were specified as primary, the remainder being classed as secondary or unspecified.

Diagram 16



All tumours of brain and C.N.S.; death rates per million living, by sex, according to age, 1936-38 and 1950-52

Cancer of the gall bladder and ducts (part of I.S.C. No. 155)

From this site were recorded 0.8 per cent of male and 1.6 per cent of female deaths from cancer. Since 1936 male rates have shown little change while female rates have somewhat fallen. The ratio of male to female deaths, which is generally about two to one, has changed little.

Cancer of the pancreas (I.S.C. No. 157)

This site was certified as the cause of death in 3.8 per cent of male and 3.7 per cent of female deaths from cancer. Increases in the certified death rate have occurred in each recorded period at all ages and in both sexes since 1911. It is probable that this increase is not real but may more properly be attributed to better diagnosis and certification.

Tumours of the brain and central nervous system

Since they are more often lethal on account of their mechanical effects than from the results of metastatic spread, tumours of the brain and central nervous system have been included under one head whether malignant, benign or of uncertain nature. They comprise malignant tumours (I.S.C. No. 193), benign tumours (I.S.C. No. 223) and tumours of unspecified nature (I.S.C. No. 237). The mortality rates from these tumours vary little below 25 years of age when they increase until between 55 and 65 years of age after which they again fall. Since 1936 mortality rates have shown slight increases under 25 years of age and over 55 years of age, otherwise there has been little change (Diagram 16).

Cancer of bone

In the Sixth Revision of the International List malignant tumours of the jaw have been included under the general head of malignant tumours of bone (I.S.C. No. 196) which account for 0.9 per cent of male and 0.8 per cent of female deaths from cancer. It is probable that in the past many deaths attributed to cancer of the jaw were really extensions from primary sites in the mouth, and due to better diagnosis and certification the rates have fallen considerably of recent years. Mainly due to this reason, mortality rates from cancer of bone have fallen at all ages and the rate is now about one half of that in 1936 to 1938.

Cancer of the thyroid gland (I.S.C. No. 194)

This site accounts for about 0.2 per cent of male and 0.6 per cent of female deaths from cancer. Female rates have changed little but there has been an increase in deaths attributed to cancer of the thyroid in males of 75 years and over.

The Reticuloses

In the Sixth Revision of the International List of Causes of Deaths, diseases of the lymphatic and hæmatopoietic tissues were included among the neoplasms; they are listed under I.S.C. Nos. 200 to 205. They differ in many important respects from classical cancers, which might now well be distinguished under the name of malignant tumours. For example the age distribution does not follow the classical cancer curve where, with the exception of embryonal and certain genital tumours, the incidence increases very rapidly and regularly with increasing age. Some of the reticuloses are more common during early life and the increase in incidence with age is never so rapid as with the neoplastic tumours. As causes of death the most important are Hodgkin's disease, the various forms of leukæmia, the lymphosarcomata, and the multiple myelomata. The reticuloses are the cause of 5 per cent of male and 4 per cent of female recorded deaths from all malignant neoplasms. The proportion of each main division within the group is set out below.

	Per	cent
	Male	Female
Total for reticuloses	 100	100
Hodgkin's disease (lymphadenoma)	 21	16
Leukæmia and aleukæmia	 48	54
Lymphosarcoma and reticulosarcoma	 20	17
Multiple myeloma (plasmocytoma)	 7	10

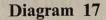
Hodgkin's Disease (I.S.C. No. 201). Under 75 years of age the male death rate is approximately double the female rate for corresponding age-groups and in general the rates increase with advancing age though comparatively slowly. Frequently for a single year the death rate in one age-group will exceed that in the next older group and occasionally such an inversion occurs in several consecutive years as in 1942 to 1944 and in 1946 and 1947 when the female death rate at 25-34 years exceeded that at 35-44. It seems probable that this "run" happened by chance and is a result of the low age mortality gradient. Death rates above 25 years of age have been increasing since 1911 and the crude death rate has more than doubled. No change in the age distributions appears to have occurred and the ratio between male and female deaths has remained constant, male deaths being 150 to 200 per cent higher than female.

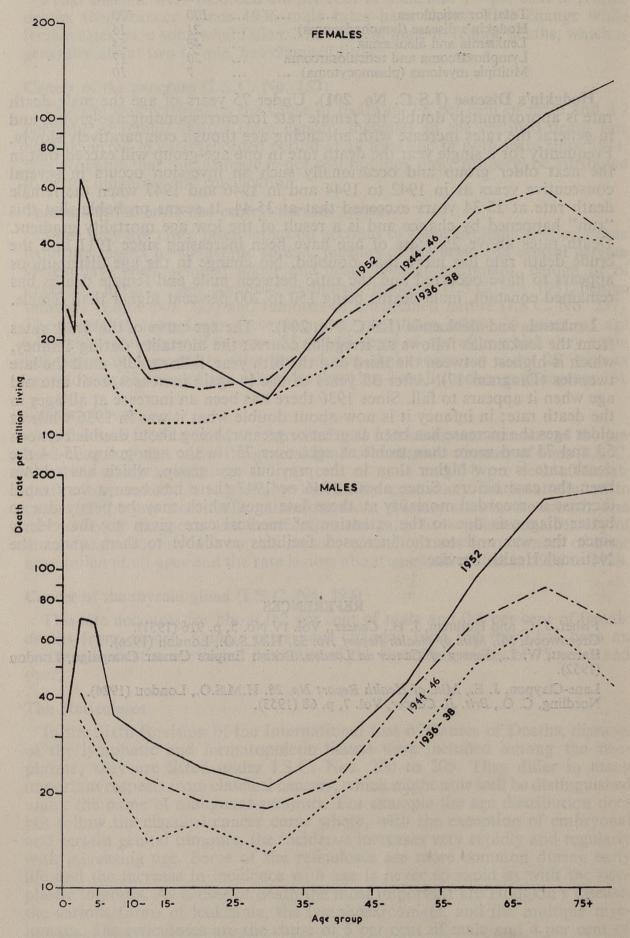
Leukæmia and aleukæmia (I.S.C. No. 204). The age curve of the death rates from the leukæmias follows an irregular course; the mortality during infancy, which is highest between the third and the fifth year, falls rapidly until the late twenties (Diagram 17). After 35 years of age it again increases until late old age when it appears to fall. Since 1936 there has been an increase at all ages in the death rate; in infancy it is now about double what it was in 1936 while at older ages the increase has been as great or greater, being about double between 55 and 75 and more than treble at ages over 75. In the age group 75-84 the death rate is now higher than in the previous age group, which has seldom been the case before. Since about 1946 or 1947 there has been a very rapid increase in recorded mortality at these late ages which may be partly due to better diagnosis due to the extension of medical care given to the elderly since the war and to the increased facilities available to them under the National Health Service.

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Leukæmia and aleukæmia; death rates per million living according to sex and age, 1936-38, 1944-46 and 1952

Table LXXVI.—Cancer*: sex and age specific death rates per million living, and E.A.D.R. (ages 0-64). England and Wales, 1936-39, 1940-44 and each individual year, 1945 to 1952

			11								
100 VIII	123	1936– 1939	1940– 1944	1945	1946	1947	1948	1949	1950	1951	1952
118 1 112	901	901	1 00	1 2001		660			1	1	- 3
		111				M	[ales				
	151	011	01.	1 555	1	111	3355	State of			-26
Crude Death ages)	Rate (a		1,743	1,844	1,876	1,928	1,963	1,991	2,058	2,121	2,152
E.A.D.R. (age	0-64)	. 4,111	1,134	1,185	1,196	1,225	1,244	1,241	1,274	1,308	1,326
0- 5		. 86	88 61	95 57	83 67	112 65	101 65	116 64	106 62	108 74	130 70
15- 25- 35		. 85 175 505	82 169 542	86 189 557	94 184 574	94 190 594	91 169 574	102 180 559	100 177 549	91 177 595	102 182 568
45- ::12		. 1,673 4,692	1,762 4,712	1,856 4,908	1,956 4,858	1,940 5,024	1,995 5,142	1,964 5,140	2,066 5,275	2,068 5,446	2,073 5,562
65	1. 683.	. 9,791	9,909	9,864	9,799	10,071	10,246	10,362	10,324	10,591	10,540
75 and over	10.	. 14,398	14,149	13,757	14,285	14,645	14,732	15,238	15,820	16,358	16,552
29 1 89 04 6 28	100	26 28	1,0 3,0	10 1	505	Fer	nales	100			-2.6
	Rate (a	1			1		l de	1 400			-0X.
ages)		. 1,632	1,697	1,738	1,773	1,792	1,799	1,819	1,840	1,820	1,848
E.A.D.R. (ages	0–64) .	. 1.093	1,073	1,047	1,057	1,040	1,033	1,021	1,017	998	1,011
0- 5	erral :	1 00	70 41	81 46	79 43	91 42	81 41	106 45	96 56	102 49	103 56
15 25 35	:: :	182	61 192 714	62 191 705	61 188 715	63 186 707	64 177 674	71 188 689	60 194 685	66 190 711	66 170 709
45- 55		2 000	2,025 3,907	1,937 3,823	1,977 3,848	1,941 3,778	1,936 3,780	1,889 3,704	1,863 3,706	1,814 3,608	1,836 3,680
65		7,089	6,891	6,732	6,808	6,769	6,715	6,757	6,695	6,489	6,424
75 and over		11,019	10,448	10,274	10,493	10,965	10,825	11,001	11,308	11,036	11,045

^{*} Up to and including 1948: 5th Revision (Nos. 45-55 together with Hodgkin's Disease (44b) and Leukæmia and Aleukæmia (74)). 1949-52: 6th Revision (Nos. 140-205).

Table LXXVII.—Cancer*: sex and age specific death rates per million living and E.A.D.R. (ages 0-64). England and Wales; Rates for 1940-44 and 1945 to 1952 expressed as percentages of the corresponding average rate over the period 1936-39

greed.	1936– 1939	1940– 1944	1945	1946	1947	1948	1949	1950	1951	1952
					M	ales				
Crude Death Rate (all ages)	100	107	113	115	118	120	122	126	130	132
E.A.D.R. (ages 0-64)	100	102	107	108	110	112	112	115	118	119
0 5	100 100	102 120	110 112	97 131	130 127	117 127	135 125	123 122	126 145	151 137
15 25 35	100 100 100	96 97 107	101 108 110	111 105 114	111 109 118	107 97 114	120 103 111	118 101 109	107 101 118	120 104 112
45 55	100 100	105 100	111 105	117 104	116 107	119 110	117 110	123 112	124 116	124 119
65	100	101	101	100	103	105	106	105	108	108
75 and over	100	98	96	99	102	102	106	110	114	115
A LEY LO	10 : 14 :	\$100 (200	59		Fei	nales	The state of			
Crude Death Rate (all ages)	100	104	106	109	110	110	111	113	112	113
E.A.D.R. (ages 0-64)	100	98	96	97	95	95	93	93	91	9.
0- 5	100 100	106 114	123 128	120 119	138 117	123 114	161 125	145 156	155 136	150
15 25 35	100 100 100	95 105 96	97 105 95	95 103 96	98 102 95	100 97 91	111 103 93	94 107 92	103 104 96	10. 9. 9.
45 55	100 100	99 98	95 96	96 96	95 94	94 95	92 93	91 93	89 90	9.
65	100	97	95	96	95	95	95	94	92	9
75 and over	100	95	93	95	100	98	100	103	100	10

^{*} Up to and including 1948: 5th Revision (Nos. 45-55 together with Hodgkin's Disease (44b) and Leukæmia and Aleukæmia (74)). 1949-1952: 6th Revision (Nos. 140-205).

Table LXXVIII.—Deaths from malignant tumour (I.S.C. Nos. 140-199) by sex and age according to histological type 1952

havi premi nesmita di	an tolk	All	0-	5-	15-	25-	35-	45-	55-	65-	75-	85 and over
All malignant tumours	${M \atop F}$	43,120 40,482	114 97	99 81	149 104	387 426	1,603 2,201	5,752 5,590	10,924 9,123	14,036 11,859	8,962 9,067	1,094 1,934
Carcinoma	$\left\{ _{F}^{M}\right.$	39,955 37,615	25 20	13 10	61 45	253 341	1,339 1,973	5,218 5,132	10,183 8,460	13,322 11,193	8,516 8,628	1,025 1,813
Sarcoma Glioma		888 934 671 429	54 50 27 19	45 34 36 29	58 41 23 16	70 52 41 22	89 90 116 67	142 157 190 105	168 204 196 117	167 179 38 45	82 105 4 7	13 22 - 2
Cancer undefined	${\scriptsize \left\{ \begin{smallmatrix} M\\ F\end{smallmatrix} \right.}$	1,606 1,504	8 8	5 8	7 2	23 11	59 71	202 196	377 342	509 442	360 327	56 97

Table LXXIX.—Cancer (6th Revision, Nos. 140-205): death rates per million living by sex and age from cancer at various sites.

England and Wales, 1952—Males

No. (6th Revision)	Site or organ	All ages	0-	5-	15-	25-	35-	45-	55-	65-	75-	85 ar
140 141	Lip					-						
142 143	Salivary gland	44		1 -	I	- 1	3	18	75	234	622	63
144	Other parts of mouth and mouth unspecified						3.0		120	70	499	1
145 146 147 148	Oral mesopharynx Nasopharynx Hypopharynx	26	_	1	3	0	51	16	50	142	270	33
150	Pharynx unspecified	25			34	11		14		1,000	140	
	Œsophagus	70	_	_	-	0	7	39	148	370	843	86
151	Stomach	382	-	_	3	14	80	378	978	2,009	3,079	2,52
152 153	Small intestine, including duodenum	202	-	1	1	14	46	122	365	1,087	2,326	2,73
154	Rectum	162	_	0	1	6	26	97	326	889	1,796	2,03
155	Biliary passages and of liver (stated to be primary									1	1,170	2,00
157	site)	25 82	=	_	0	2 3	6 17	22 67	63 215	131 441	222 674	21 64
161 162	Larynx Trachea, and of bronchus and lung specified as	36	-	0	-	0	4	21	90	198	353	33
163	primary Lung and bronchus, unspecified as to whether primary or secondary	568	1	-	5	25	179	843	2,142	2,514	1,623	1,04
170	Breast	3		_	_	_	1	3	6	14	20	
177	Prostate	142	_	0	1		2	18	161	879	2,207	2,75
178	Testis	10	2	_	7	13	15	11	10	19	25	2,73
179 180 181	Other and unspecified male genital organs Kidney Bladder and other urinary organs	7 120	<u></u>	-3	$-\frac{1}{1}$	1 3	1 24	5 102	13 284	33 635	97 1,025	1,12
190 191	Skin (malignant melanoma)	23	1	0	2	4	6	17	31	103	265	66

Table LXXIX.—continued

Int. Classn. No. (6th Revision)	Site or organ	All ages	0-	5-	15-	25-	35-	45-	55-	65-	75-	85 and over
193	Malignant neoplasm of brain and other parts of nervous system	39	22	13	11	17	42	7.6	117	46	11	15
194	Thyroid gland	5			_	0	2	6	11	25	40	-
195	Other endocrine glands	4	9	2	0	2	2	4	7	7	2	15
196 197	Bone (including jaw bone)	24	7	7	16	10	9	26	42	94	141	169
158 164 198	Peritoneum	13	2	1	1	3	6	13	42	56	47	31
200 201	Lymphosarcoma and reticulosarcoma Hodgkin's disease	21 23	4 2	4 2	8 14	9 26	11 23	26	51 45	83 49	88 36	40
202	Other forms of lymphoma (reticulosis)	4	1	1	0	2	4	6	10	30015	9	1 33
203	Multiple myeloma (plasmocytoma)	8	_	-	0	1	3	12	27	31	20	100
204	Leukæmia and aleukæmia	52	60	32	24	21	29	44	96	166	189	10
205	Mycosis fungoides	1		-	- 1	-	1	1	3	3	5005	200
Others in 140-205	Remaining sites	56	6	2	1	4	16	48	150	267	459	52
140-205	Total	2,152	130	70	102	182	568	2,073	5,562	10,540	16,495	17,03
193 223 237	Malignant neoplasm of brain and other parts of nervous system	63	28	21	18	26	61	117	185	94	29	1 Act 1

Table LXXX.—Cancer (6th Revision, Nos. 140-205); death rates per million living by sex and age from cancer at various sites.

England and Wales, 1952—Females

nt. Classn. No. (6th Revision)	Site or organ	All ages	0-	5-	15-	25-	35-	45-	55-	65-	75-	85 and
140	Lip	7'869	163	20	-00	739	303	Than .	37060	6 wat	10/632	107164
141 142 143 144	Tongue	14	_	0	1	1	3	9	23	56	100	128
145	Oral mesopharynx	100					9	0				
146 147	Nasopharynx	14	1	0	0	2	8	17	35	48	62	47
148	Pharynx unspecified	7 7		0.00		17		*		100		
150	Œsophagus	3.7	-	_		1	10	22	63	160	262	338
151	Stomach	278	1	_	1	10	52	165	443	1,158	2,181	2,480
152 153	Small intestine, including duodenum	252	***	_	1	12	45	153	404	916	2,097	3,14
154	Rectum	105	_	_	1	4	27	74	193	390	781	91
155	Biliary passages and of liver (stated to be	436								7.5	200	10
157	primary site)	35		1	1	1	5	24	71	154	228	13
157	Pancreas	68	-	_	0	1	9	40	126	285	506	64
161	Larynx i	8	1	+	+	1	4	11	16	28	44	2
162 163	Trachea and of bronchus and lung specified as primary	98	-		1	7	40	107	253	344	438	32
170	Breast	363	1		1	30	217	513	791	1,114	1,579	2,08
171	Cervix uteri	111	1		1	16	79	173	289	306	359	27
172 173	Other parts of uterus, including chorione-	65	1		1	2	16	72	155	240	321	32
174	Uterus unspecified	VIJ STAR I		- 1	19-	- Sp-	73-				-512-	20 20
175	Ovary, Fallopian tube and broad ligament	110	_	1	5	13	59	209	285	298	280	27
176	Other and unspecified female genital organs	21	2	0		1	5	9	26	86	170	27

Table LXXX.—continued

Int. Classn. No. (6th Revision)	Site or organ	All ages	0-	5-	15-	25-	35-	45-	55-	65-	75-	85 and over
180 181	Kidney	53	19	4	_	3	12	35	94	192	384	466
190 191	Skin (malignant melanoma)	21	1	1	2	7	11	13	30	52	140	493
193	Brain and other parts of nervous system	23	16	12	6	8	24	40	55	31	10	14
194	Thyroid gland	11	_	_	_	0	3	8	22	48	70	95
195	Other endocrine glands	2	5	1	0	2	2	2	3	4	3,	7
196 197	Bone (including jaw bone)	18	4	5	10	7	9	17	32	57	70	68
158 164 198	Peritoneum Mediastinum Secondary and unspecified neoplasm of lymph nodes nodes	13	3	1	2	2	5	13	32	52	47	41
200	Lymphosarcoma and reticulosarcoma	13	1	5	4	7	8	10	23	42	42	14
201	Hodgkin's disease	12	1.	2	8	16	10	10	20	28	29	.7
202	Other forms of lymphoma (reticulosis)	2	2	_	0	1	1	2	(5)	7	2	177
203	Multiple myeloma (plasmocytoma)	8	_	0	_	0	3	8	23	36	12	20
204	Leukæmia and aleukæmia	41	42	23,	17	13	25	38	69	101	140	61.
205	Mycosis fungoides	0	_	_	_	_	0	0	0	1	1	-
Others in 140-205	Remaining sites	52	4	0	1	3	17	43.	100	190	324	. 466
140-205	Total	1,848	103	56	66	170	709	1,836	3,680	6,424	10,683	13,169
193	Malignant neoplasm of brain and other parts of nervous system	All agus	Del	241	12==-	53-	120	1000	144	92-4	100	53 mmd
223	Benign neoplasm of brain and other parts of nervous system Neoplasm of unspecified nature of brain and other parts of nervous system	42	23	19	14	16	38	70	100	65	31	27

Table LXXXI.—Cancer of different sites: Death rates per million living by sex and age. England and Wales, 1911-20, 1921-30, 1931-35 and 1936 to 1952

1040					1 0	Males		21 21 21		191	380 400 380						Female	s	10		· · · · · · · · · · · · · · · · · · ·	(E) 45 45			
Period	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 EADR	65-	75 and over	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 EADR	65-	75 and over			
21 1/12 12 12 12 12 12 12 12 12 12 12 12 12 1	ALL SITES* (I.S.C. I												S.C. Nos. 140–205)												
1911–20 1921–30 1931–35	Not available			Not available			vailable		424 420 446	1,665 1,618 1,678	4,333 4,666 4,601	1,019 1,064 1,059	7,691 9,063 9,760	9,208 11,994 13,486		Not av	vailable		64 67 68	787 762 732	2,222 2,115 2,048	4,257 4,172 4.010	1,152 1,121 1,081	6,786 7,220 7,167	8,512 10,236 10,978
1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952	89 86 84 87 100 79 94 78 95 83 112 101 116 106 108 130	86 47 86 186 84 54 90 175 87 50 79 174 87 58 80 164 100 59 77 187 79 64 83 162 94 63 83 169 78 60 87 164 95 57 86 189 83 67 94 184 112 65 94 190 101 65 91 169 116 64 102 180 106 62 100 177 108 74 91 177			99 103 103 99 99 107 100 103 100 108 110 116 107 115 112 113 120	496 515 518 491 535 540 547 536 557 574 594 574 559 549 595 568	1,664 1,653 1,682 1,690 1,743 1,724 1,764 1,790 1,789 1,856 1,940 1,995 1,964 2,066 2,068 2,073	4,725 4,716 4,691 4,637 4,737 4,737 4,728 4,684 4,689 4,716 4,908 4,858 5,024 5,142 5,140 5,275 5,446 5,562	1,113 1,115 1,116 1,102 1,132 1,133 1,130 1,135 1,140 1,185 1,196 1,225 1,244 1,241 1,241 1,274 1,308 1,326	9,844 9,879 9,892 9,555 9,821 9,921 10,056 9,991 9,742 9,864 9,799 10,071 10,246 10,362 10,362 10,3591 10,540	14,569 14,258 14,316 14,550 14,812 13,907 14,282 13,613 13,757 14,285 14,645 14,732 15,238 15,820 16,358 1,6552	63 57 69 73 76 64 74 59 75 81 79 91 81 106 96 102 103	32 38 38 36 39 41 40 43 443 446 43 42 41 45 56 49 56	67 61 70 60 59 59 60 68 60 62 61 63 64 71 60 66 66	189 178 179 183 182 193 193 200 191 188 186 177 188 194 190 170	91 87 92 90 91 93 94 97 95 97 95 96 92 102 102 102 98	766 725 750 735 716 719 719 712 703 705 715 707 674 689 685 711 709	2,061 2,052 2,058 2,024 2,055 2,046 2,019 2,004 2,001 1,937 1,977 1,941 1,936 1,889 1,863 1,814 1,836	4,010 3,951 4,085 3,951 3,949 3,887 3,934 3,904 3,868 3,923 3,848 3,778 3,780 3,704 3,706 3,608 3,680	11,01 1,082 1,110 1,081 1,083 1,073 1,077 1,071 1,062 1,047 1,057 1,040 1,033 1,021 1,017 998 1,011	7,172 7,114 7,039 7,035 7,145 6,899 6,935 6,842 6,665 6,732 6,808 6,769 6,715 6,757 6,695 6,489 6,424	11,154 10,865 10,937 11,119 10,779 10,618 10,335 10,474 10,081 10,274 10,493 10,965 10,825 11,001 11,308 11,036 11,045			
1083			4-25-	ALI	SITES	S* LES	s LUNG	, BRON	CHUS	AND PI	EURA (I.S.C. N	os. 140-	161, 162	2 part, 1	64, 165	part, 17	0–205)							
1911–20 1921–30 1931–35		Not a	vailable		54 57 57	411 391 377	1,631 1,545 1,401	4,269 4,538 4,251	1,000 1,027 958	7,615 8,927 9,413	9,166 11,902 13,247		Not av	vailable		63 66 66	779 752 714	2,202 2,090 2,001	4,223 4,122 3,916	1,142 1,107 1,055	6,744 7,160 7,043	8,484 10,185 10,873			
1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952	88 86 82 87 86 100 78 94 77 94 77 94 111 101 115 105 107 129	51 46 53 50 58 58 64 62 60 56 67 65 64 63 62 74 70	82 83 85 76 76 74 80 79 84 82 89 88 85 95 96 87 98	151 159 150 149 144 159 140 145 140 161 162 165 136 156 148 155 157	94 94 94 91 92 98 93 95 92 98 102 107 96 106 102 105 112	414 423 412 375 414 420 412 410 411 414 414 421 411 402 384 418 389	1,378 1,331 1,317 1,318 1,356 1,308 1,322 1,303 1,260 1,300 1,317 1,237 1,258 1,217 1,217 1,213 1,232	4,229 4,174 4,060 3,994 4,021 3,939 3,816 3,753 3,697 3,791 3,629 3,648 3,622 3,503 3,438 3,482 3,417	977 963 942 924 940 924 904 892 876 900 880 874 866 845 834 843 835	9,345 9,367 9,293 8,917 9,165 9,249 9,282 9,070 8,789 8,813 8,615 8,683 8,657 8,520 8,297 8,242 8,023	14,246 13,897 13,890 14,140 14,369 13,922 13,404 13,708 13,053 13,184 13,580 13,845 13,845 14,214 14,615 14,981 1,4994	63 56 69 73 76 64 72 58 75 80 79 91 80 105 100 103	32 37 38 36 38 41 40 41 43 46 43 41 40 44 56 49 56	66 59 68 58 57 58 65 58 61 63 70 58 64 65	183 172 174 176 174 184 186 190 183 180 181 174 169 178 186 179 163	89 84 90 87 88 90 91 93 92 93 92 92 89 98 99 98	742 708 725 706 693 696 691 681 671 676 682 675 640 643 672 670	1,999 1,993 2,000 1,961 1,987 1,978 1,949 1,931 1,919 1,858 1,900 1,854 1,827 1,798 1,756 1,714 1,728	3,896 3,836 3,954 3,819 3,808 3,755 3,792 3,714 3,654 3,679 3,588 3,589 3,498 3,492 3,388 3,426	1,069 1,051 1,076 1,045 1,046 1,037 1,039 1,032 1,019 1,002 1,013 990 980 967 960 941 948	7,016 6,958 6,855 6,829 6,940 6,705 6,718 6,632 6,465 6,493 6,547 6,483 6,404 6,419 6,351 6,138 6,077	11,030 10,714 10,772 10,946 10,599 10,448 10,154 10,289 9,886 10,073 10,255 10,688 10,552 10,711 10,972 10,658 10,623			

^{*} Excludes Hodgkin's disease, Leukæmia and Aleukæmia 1911-35

eres Sale	1000 1008 1008	0- 5- 15- 25- 0-34 35- 45- 55- 0-64 65- 75 and										Females											
_	Period	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 EADR	65-	75 and over	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 E A D R	65-	75 and over
			. (2)		146	33	315	1,322	3'810	dist	3 3 L	IPS (I.S.C	C. No. 1	40)	24	1000 1400 1000		931	1010-1	Car	11000	V 0.73	10,250
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-	1911-20 1921-30 1931-35		Not as	vailable	129	0 0	19 9 4	122 81 40	279 266 195	65 55 37	395 411 399	382 429 439		Not av	ailable	101	0 0 0	4 2 2	9 7 5	18 17 17	5 4 4	30 29 27	47 51 52
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Table	LX	XXX	Ic	ontini	ued	(1)	Ţ.T	19		30	376	227 1				1	9 [Section of the sectio	33.7	193		140	273
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Period	d -	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 E A D R	65-	75 and over	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 E A D R	65-	75 and over
10-13)	,		11	43	M	OUTH A	AND TO	ONSIL* (I.S.C. No	os. 143,	144 and	l 145 pa	rt)	7	25 J	84. 78	18	143	323
1921-	30		Not a	vailable		1 1 1	9 7 4	52 48 30	127 158 144	29 33 28	179 255 290	204 280 362		Not	availabl	e	0 0	2 2 3	6 6	13 16 15	3 4 4	20 27 23	37 41 51
1937 1938 1939 1940 1941 1942 1943			$\begin{array}{c c} & 0 & \\ \hline 1 & \\ \hline 1 & \\ 0 & \\ \hline - & \\ 0 & \\ \hline 0 & \\ 0 & \\ \hline 1 & \\ 0 & \\ \hline \end{array}$	1 - 0 1 0 - 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 1 0 1 1	1 1 1 0 0 1 1 1 1 0 0 1 1 1 1 0 0 1 1 1 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	4 3 4 1 3 2 2 2 1 2 2 1 2 2 1 2 2 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 2 2 1 1 1 1 1 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 1 1 2 2 2 1 1 1 1 2 2 2 1 1 1 2 1 1 2 1 2 1 1 2 2 2 1 1 1 2 2 2 1 2 1 1 2	22 21 14 12 12 10 11 12 8 10 10 7 7 7 9 5 9	91 88 77 68 54 54 45 42 36 26 29 33 25 40 40	18 17 15 12 11 11 10 9 8 8 8 5 6	203 218 212 162 164 150 161 159 140 138 130 117 101 87 111 136 118	280 245 265 239 284 262 244 235 234 257 220 212 197 208 308 291 287	1					2 2 1 2 2 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1	5 3 5 4 4 2 3 4 4 4 3 2 4 1 5 5 4	12 9 8 6 8 7 9 7 6 7 8 6 7 12 10	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	27 19 17 19 19 13 18 17 16 21 11 15 13 17 21 21 25 26	32 31 33 34 31 33 36 28 25 45 36 28 33 28 49 52
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1911– 1921– 1931–	-30		Not a	vailable		1 1 1 1	4 4 3	25 22 19	60 69 71	14 15 15	83 113 138	74 103 134		Not a	vailable		0 0 0	4 4 2	8 8 9	14 12 15	4 4 4	11 16 20	17 21 22
1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950	7 3 3 9 9 1 2 2 3 4 4 5 5 7 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			2 1 0 2 1 -1 1 0 1 0 1 0 1 1 1 1 2 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 1 2 0 1 1 0 2 2 2 2 1 0 1 0 1 0 1 0		1 3 4 3 4 4 3 5 4 4 3 5 4 4 3 2 4 4 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5	15 12 11 11 14 12 12 14 11 19 11 11 19 12 14 11 11	63 55 59 53 49 43 51 44 35 42 36 28 37 26 28 41 40	11 10 9 11 10 8 9 8 8 6 7 7 8	141 132 148 133 128 115 125 111 97 113 98 92 85 93 103 87 99	137 174 143 179 144 177 174 144 151 147 144 143 144 145 172 197					0 1 0 1 0 0 0 1 1 0 0 0 1 1 1 0 0 0 1 1 0 0 1	1 1 2 3 2 3 2 4 3 2 4 1 4 1 3 7 6 7	11 9 9 8 7 6 6 6 10 8 7 6 6 6 9 16 19	17 18 15 17 17 14 13 12 14 10 14 17 13 16 35 26 32	5 5 4 5 4 4 4 4 4 4 4 4 4 9 8	23 27 17 24 22 22 23 22 20 18 22 17 22 24 32 37 39	28 20 20 27 25 24 17 19 26 27 28 21 29 48 44

^{*} Includes salivary gland 1911-1935.

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	- 1	1	1		,	Males		144				Females													
Period	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 EADR	65-	75 and over	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 EADR	65-	75 and over			
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1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1 1947 2 1948 1950 1951 1952	1 1 3 -1 1 1 1 					3 3 5 3 5 3 2 2 2 2 2 2 1 1 1 1	19 17 14 12 14 10 5 6 10 7 4 5 7 5 7 5 3 3	64 52 52 44 57 34 32 21 30 23 19 17 15 12	13 12 11 10 12 8 6 5 6 5 4 4 4 4 3 3 2 2	124 121 101 114 118 113 91 84 80 67 72 60 50 50 36 32 25	191 161 181 209 176 154 165 140 173 124 125 115 103 106 48 58 55						4 2 4 3 2 1 1 1 1 1 1 1 1 1 1 1	11 8 9 8 6 6 3 8 3 3 3 6 3 2 2 2	17 19 19 20 17 16 9 8 8 7 11 9 6 8	5 5 5 5 5 5 4 4 2 2 2 2 2 2 2 2 1	49 35 41 39 35 29 20 19 29 20 19 16 17 13	85 63 49 60 34 51 39 46 37 43 50 34 22 30 19			
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1911–20 1921–30 1931–35		Not a	vailable		0 0 0	18 10 9	139 113 71	357 384 341	79 78 65	510 600 639	466 623 737		Not a	vailable		1 1 0	18 13 9	43 45 42	70 81 93	21 22 22 22	105 133 153	144 190 226			
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Table LXXXI.—continued

1800 1898 1899						Males						Females											
Period	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 EADR	65-	75 and over	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 E A D R	65-	75 and over	
1933		1					416	STO	MACH	AND D	UODENU	M(I.S.	C. Nos.	151, an	d 152 p	art)			100			311	
1911–20 1921–30 1931–35	_	Not av	ailable		6 7 7	96 114 116	361 407 425	952 1,067 1,076	220 248 253	1,709 2,040 2,193	1,686 2,311 2,624		Not a	vailable		4 5 6	74 73 71	255 253 233	663 681 645	155 158 149	1,268 1,489 1,513	1,457 1,952 2,212	
1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952	1		2 2 3 3 1 1 2 3 2 2 3 3 1 4 2 3	22 25 19 19 17 23 14 18 20 22 16 17 16 19 17	7 8 6 6 5 7 5 6 6 7 5 5 5 6 6 5 5 5 5 6 6 6 5 5 5 5	128 116 108 105 111 113 111 106 119 110 109 106 97 99 92 80	435 408 425 428 426 403 419 396 386 389 389 389 387 367 357 357	1,095 1,076 1,110 1,076 1,103 1,098 1,043 1,013 1,053 1,084 1,028 1,060 1,095 1,035 958 1,025 981	259 250 256 251 255 252 244 236 243 247 238 247 238 247 233 222 229 224	2,136 2,155 2,127 2,163 2,174 2,076 1,988 2,047 2,099 2,016 2,101 2,170 2,152 2,096 2,107 2,107 2,109	2,887 2,776 2,658 2,694 3,083 2,714 2,438 2,458 2,476 2,515 2,696 2,630 2,755 2,809 2,898 3,033 3,042	- - - - - - - - - - - - - - - - - - -		2 2 2 1 2 2 1 2 1 2 1 1 2 1 1 1 1 1 1 1	15 18 14 19 23 19 19 18 19 15 12 12 16 14 16 12 10	5 6 5 6 6 6 6 6 6 5 4 4 5 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	77 68 70 65 60 57 70 65 57 64 70 57 58 53 51 55 53	226 212 221 227 215 203 195 201 182 197 184 167 170 162 161	599 612 615 630 589 612 567 562 572 542 534 540 506 465 460 450	142 140 142 145 137 139 132 130 131 124 125 122 115 108 106 105 104	1,481 1,468 1,440 1,398 1,467 1,366 1,260 1,273 1,254 1,271 1,315 1,317 1,254 1,233 1,256 1,222 1,164	2,247 2,218 2,292 2,208 2,218 2,104 1,963 1,963 1,961 2,102 2,119 2,199 2,158 2,361 2,396 2,237	
1334			3.	11	1 - 1 -	INTES	TINE EX	KCEPT	RECTU	M AND	DUODE	NUM ((I.S.C. 1	Nos. 152	2 part, a	nd 153)					VAS		
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1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951			2 0 6 3 6 2 3 3 4 3 4 5 5 5 2 2 2 2 2 3 1	16 14 11 16 14 16 13 10 14 18 19 16 15 10 13 11 14	54566654667664455	49 44 54 45 51 47 50 52 52 47 53 49 46 49 41 45	155 153 159 151 167 154 163 155 140 157 165 144 147 148 129 128 121	563 556 530 529 543 537 511 544 492 504 498 432 422 391 370 361	121 118 117 115 120 117 114 118 108 112 114 107 99 97 89 86 84	1,446 1,484 1,409 1,389 1,419 1,416 1,450 1,399 1,433 1,387 1,376 1,294 1,246 1,151 1,141 1,077	2,469 2,332 2,551 2,507 2,582 2,409 2,361 2,345 2,369 2,444 2,396 2,505 2,440 2,377 2,364 2,358 2,358 2,348			3 1 3 2 2 2 2 2 2 2 2 4 3 2 4 4 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19 16 20 18 15 14 16 22 16 14 16 13 14 11 11 11	6 57 6 55 55 7 55 55 4 54 4 4 54	65 69 59 61 60 65 59 59 53 74 65 58 49 56 57 53 45	191 209 183 207 202 199 175 194 193 191 181 199 186 184 163 153	499 522 519 495 494 476 499 495 503 490 483 451 457 460 417 380 402	120 126 121 120 119 116 116 119 118 119 115 111 109 110 93 94	1,198 1,235 1,273 1,232 1,274 1,251 1,185 1,145 1,161 1,147 1,163 1,153 1,066 1,048 990 916 910	2,475 2,460 2,391 2,489 2,404 2,462 2,298 2,361 2,293 2,192 2,382 2,467 2,292 2,389 2,172 2,238	

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					, I	Males			1300	332 332 3480						Females	s	410	100	1 1862 1 1862	2,329
0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 EADR	65-	75 and over	0-	5	15-	25-	0-34 E A D R	35-	45-	55-	0-64 FADR	65-	75 and
				4				1-46	RE	CTUM*	(I.S.C.	No. 154))	13	JENDR		183		EADR	1 4 5 5	over
	Not av	vailable		4 4 4	37 31 35	142 143 135	445 483 481	98 103 102	895 1,057 1,165	1,113 1,421 1,570		Not av	ailable		3 4 4	36 32 31	111 98 87	260 253 239	64 61 57	509 513	647 778 791
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	<u>-</u>	3 1 3 1	7 7 6 6	3 2 3 2	29 29 35 26	105 108 101 97	366 388 356 326	78 82 77 70	1,096 1,017 977 889	1,846 1,766 1,853 1,821		=	2 1 2 1	6 7 6 4	2 2 2 1	26 21 27 27	100 79 74 74	197 203 192 193	51 48 46 46	488 449 433 390	873 893 777 800
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	Not av	vailable	1	3 2 2	33 19 16	144 85 55	420 264 180	93 58 40	822 609 449	987 859 654		Not av	ailable	28	3 2 1	38 20 13	160 82 49	472 256 140	105 56 32	920 595 365	1,104 896 611
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	1 1 2 3 1 1 1 1 2 2 2 1	Not av	Not available - - 2 - - 3 - - 3 - - 3 - - 2 - - 2 - - 2 - - 2 - - 2 - - 3 - - 3 - - 3 - - 3 - - 3 - 0 1 Not available 1 1 1 1 2 0 1 3 0 0 1 1 2 3 0 1 1 0 1 1 0 1 1 0 1 2 0 1 2 0 1 3 0 1 1 0 1 1 0 1 2 0 1 2 0 1 3 0 1 4 0 1 5 1 0 1 6 1 1 7 1 1 8 1 1 9 1 1 9 1 1 0 1	Not available	Not available Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	0- 5- 15- 25- 0-34 35- 45- 55- 0-64 65- 75 and 0- 5- 15- 25- 0-34 35- 45- 55- 0-64 65- 8 ADR **RECTUM** (I.S.C. No. 154)** **RECTUM** (I.S.C. No. 154)** **RECTUM** (I.S.C. No. 154)** **Not available**

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	1045 1041	1	Tanks	- 6		-13	190		GALL	BLADI	DER AN	D DUCT	S (I.S.	C. No. 1	155 part	t)	T V	1	- 12	33	31	- 18	70.00
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	10112								PI	ERITON	EUM, M	IESENTE	RY (I.	S.C. No	. 158)				10	150			241
	1911-20 1921-30 1931-35		Not a	vailable		1 2 2	5 6 5	12 10 10	26 22 16	7 7 6	42 31 22	37 29 20		Not av	ailable		1 1 1 1	10 7 5	28 19 14	57 39 26	15 11 7	83 51 37	100 53 30
176	1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951	6 4 1 5 3 6 4 3 1 2 1 2 6 6 4 4 2	1 0 2 2 2 2 1 1 2 1 1 2 2 2 2 2 2 0 1 1	1 2 2 2 2 1 2 2 1 2 3 2 0 1 1 1 2 1	2 4 3 3 5 3 2 2 3 4 2 3 3 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 3 3 2 2 2 2 2 2 1 1	46537654665655353	7 6 8 8 11 13 7 10 7 13 10 11 9 9 9	10 14 18 18 22 20 21 18 16 19 24 16 19 26 17	4 5 6 6 8 7 6 6 5 7 7 6 6 5 7 6 6 5 7 6 6 5 7 6 6 7 6 7	17 21 25 27 27 35 32 29 28 18 24 13 20 24 27	32 32 20 12 15 38 32 11 18 19 21 11 40 32 23 33 16	4 1 1 1 1 3 1 5 2 2 2 1 3 3 1 3 1 3 3 1 3 3 1 3 3 3 3 3	0 0 2 1 1 1 1 - 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 1 2 2 2 2 1 1 0 0 0 2 2 1	2 2 1 2 3 3 4 2 2 4 1 0 2 2 1 2 1 2 0 0	2 1 1 1 2 2 2 2 1 2 1 1 1 2 1 1 1 1 1 1	55567754456865344	9 13 10 11 17 12 13 11 11 14 10 12 16 12 13 14	28 26 24 27 21 23 21 23 25 28 20 25 25 22 18	7 7 7 7 7 8 8 7 7 7 8 8 8 7 7 7 8 8 8 7 7 6 6 8 8 7 6 6 8 7 6 7 6	35 29 27 30 42 39 33 36 43 34 35 39 41 23 31 37	25 28 20 40 27 39 38 30 27 30 19 36 36 38 26 29
	1007								LARY	NX, TR	ACHEA	(I.S.C. 1	Nos. 161	, 162 pa	rt, 165	part)	n,		10	- 3	136	196	
	1911–20 1921–30 1931–35		Not av	vailable		0 0 0	10 8 7	61 64 49	140 185 176	32 40 36	191 285 295	157 242 323		Not av	ailable		1 0 0	8 7 7	20 23 23	25 35 33	9 10 10	24 38 42	28 37 47
	1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1940 1951						4 8 5 7 8 6 5 5 6 6 5 5 6 6 5 3 9 4 5 3 5 3 5 3 5 3 5 5 3 5 7 5 7 5 7 5 7 5	42 40 37 33 45 38 29 36 25 29 33 29 34 28 28 25 23	171 155 138 151 140 128 130 115 113 119 122 103 105 108 87 102 92	33 32 28 30 30 27 25 24 22 24 25 21 22 22 18 20	297 309 316 317 287 322 289 257 276 253 251 246 252 231 218 198	323 379 380 393 355 352 291 400 315 299 343 310 329 345 382 382 358		0	0 - 0 0 - 0 0 0 - 0 0	1 1 1 1 2 1 1 1 1 1 1 1 0 0 2 1 1	0 0 0 0 1 0 0 0 0 0 0 0 0 0	7 5 4 6 6 3 7 6 6 5 4 5 4 4 3 4 4	25 20 14 20 17 24 19 19 17 17 17 17 14 15 13 12 9	40 28 42 43 38 34 33 36 40 35 34 37 34 34 31 36 20	11 8 9 11 10 10 10 10 9 9 9 8 8 5 5	47 42 52 44 52 49 40 43 42 44 42 42 50 52 31 38 29	67 59 53 64 46 51 51 67 54 62 51 74 63 56 41 44

Table LXXXI.—continued

Tota				100		12		2	<u> </u>		\$1 	11	1	V	34			300	284 884	11	357	
F893 F893 F882				12	0	Males	13	14	- A	13		1			19	1	Fem	ales		91		
Period	0-	5-	15-	25-	0-34 E A D F	35-	45-	55-	0-64 E A D R	65-	75 and over	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 EADR	65-	75 and over
1042	1	1				10	LUNG,	BRONG	CHUS, 1	PLEURA	(I.S.C. N	los. 16	52 part, 1	63 and	165 par	t)	100 - Q2	10.	1721	-11		333
1911–20 1921–30 1931–35		Not a	vailable		3 3 5	13 29 69	34 73 217	64 128 350	19 37 101	76 136 347	42 92 239	-	Not a	vailable	17 17 17 17 17 17 17 17 17 17 17 17 17 1	1 1 2	8 10 18	20 25 47	34 50 94	10 14 26	42 60 124	28 51 105
1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1951	1 -2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1		33534334566744	14 27 25 25 25 20 28 22 24 24 24 28 22 25 33 24 29 22 25	5 9 9 8 7 7 8 8 10 8 9 11 9	82 92 106 116 121 120 135 126 141 143 160 173 163 157 165 177	286 322 365 372 387 416 442 487 529 556 639 703 737 747 822 855 841	496 542 631 643 716 789 868 936 1,019 1,117 1,229 1,376 1,520 1,637 1,837 1,964	136 152 174 178 192 209 226 243 264 285 316 351 378 396 440 465 491	499 512 599 638 656 672 774 921 953 1,051 1,184 1,388 1,589 1,842 2,027 2,349	323 361 426 410 443 390 503 574 560 573 705 800 878 1,024 1,205 1,377			1 2 2 2 2 1 2 3 2 1 3 2 1 1 2 2 1 1 2 2 1 1 1 1	6 6 5 7 8 9 7 10 8 11 7 12 8 10 8	232333343434343434343	24 17 25 29 23 28 31 32 29 33 32 34 40 42 39	62 59 58 63 68 68 68 70 73 82 79 77 87 109 91 107	114 115 131 132 141 132 142 132 154 169 190 191 206 214 220	32 31 34 36 37 36 38 39 43 45 44 50 53 54 57 57 63	156 156 184 206 205 194 217 210 200 239 261 286 311 338 344 351	124 151 165 173 180 170 181 185 195 201 238 277 273 290 336 378 422
1932				25	1 0	110	041 (2,145		2,517 MEDIA	STINUM	(I.S.C	C. No. 16	4)		2	39	108	254	03	347	422
1911–20 1921–30 1931–35		Not a	vailable		2 2 1	10 11 9	22 32 24	46 63 45	13 17 13	53 82 67	35 55 57		Not av	vailable		1 1 1 1	5 5 3	12 13 8	21 27 19	6 7 5	26 40 25	22 35 30
1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951		0 1 0 0 1 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1	1 2 1 1 2 5 3 2 3 3 3 3 3 0 1	4 4 4 3 3 3 4 4 2 2 3 3 1 4 1 1 1 2	1 2 1 1 2 3 2 2 2 2 2 2 2 2 2 1 1 1	6 6 6 7 7 11 10 8 5 11 7 6 4 4 2 2 2	14 22 18 20 30 23 28 26 27 19 17 18 16 14 7 7	40 57 42 37 55 50 47 45 42 47 33 33 30 25 22 13	10 14 11 11 15 14 14 13 13 13 10 10 9 8 5 4	51 66 71 60 57 56 57 54 63 52 43 44 39 31 29 29 29	46 61 43 37 42 57 54 74 34 44 45 38 38 41 30 30 30			0 1 0 1 2 0 0 0 1 1 1 1 2 1 2 0 0 0 1 1 1 2 0 0 0 0	1 0 1 1 1 2 1 2 1 2 2 1 1 1 0 0 1 1 1 1	0 0 0 1 1 1 1 1 1 1 1 2 2 1 0 0 0	43232343333131111	4 9 6 6 6 8 7 6 9 6 7 5 6 4 2 2 2 2 2	17 12 16 14 14 15 11 13 14 13 12 12 12 9 10 8 5	4 4 4 4 5 4 4 4 4 4 4 4 4 1 1	20 27 25 26 22 23 26 22 20 21 18 17 23 15 9	37 23 24 32 30 29 39 37 16 15 20 16 21 17 8 13

	14000						1 3	1	1.5				1		-						+ +	3	
	1018					2000	Males					78		1 2				Femal	les	10			1 2
	Period	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 EADR	65-	75 and over	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 E A D R	65-	75 and over
-	1991			-1 1	PROST	TATE (I.S.C. 1	No. 177)	1					1 1		U'	TERUS	(I.S.C.	Nos. 17	1-174)	1		
-	1911–20 1921–30 1931–35		Not av	ailable		0 0	2 2 2	16 22 26	99 158 175	18 28 31	329 593 734	510 1,034 1,355		Not av	ailable		11 11 8	218 200 171	556 473 414	791 682 585	247 214 184	861 831 742	773 823 745
178	1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951				0 1 0 - 1 1 0 0 0 1 1 1 - 0 0 1 1 1 - 0 1 1 1 1		3 4 5 4 3 1 2 4 2 4 2 2 2 1 2 1	25 26 25 27 24 30 28 25 25 23 27 25 19 22 21 20 18	187 195 199 201 217 216 222 196 181 192 217 223 206 185 192	33 35 35 36 38 38 39 35 32 34 38 39 35 32 34 38 39 35 32 34 38 38 39 39 35 36 36 37 38 38 38 38 38 38 38 38 38 38 38 38 38	782 781 796 735 801 804 937 936 766 786 859 899 912 886 879	1,480 1,561 1,480 1,522 1,504 1,643 1,567 1,778 1,508 1,676 1,698 1,934 1,857 2,091 2,264 2,305 2,265	1 1 1 1 - - 1 2 1 1 1 1 1 1 1 1 1 1 1 1		2 3 0 1 2 2 1 2 2 1 2 2 1 3 2 2 1 1 2 2 2 1 1 1 2 2 1	25 17 21 20 21 23 19 21 28 21 22 21 20 21 22 21 22 21 22 21 22 21 23 21 28 21 28 21 28 21 28 28 28 28 28 28 28 28 28 28 28 28 28	86667767977767776	168 159 140 149 139 140 125 126 104 97 96 98 84 87 89 93	384 415 387 381 395 373 392 388 339 340 344 308 303 279 261 247 245	536 553 593 542 559 576 573 544 528 542 508 497 513 504 485 445 444	172 177 176 168 172 171 171 166 154 154 149 143 142 137 132 126	685 670 716 692 665 726 709 664 660 629 620 652 632 608 587 553 546	746 754 666 734 686 684 695 730 658 691 680 678 717 712 675 703 668
-	1952		1 0	1	TES	TIS (I.S	.C. No		101					0,	VARY .	AND	FALLO	PIAN T	TUBES	(I.S.C. 1	No. 175 ₁	part)	181
	1911-20 1921-30 1931-35		Not a	vailable		3 4 4	8 10 12	7 7 10	8 9 8	5 6 7	15 15 15	29 28 23		Not av	ailable		5 6	31 43 53	78 112 143	103 156 194	35 51 63	100 170 220	76 133 179
	1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952	1 1 1 2 1 - - - 1 2 1 1 2 1 1 1 2 1 1 1 1		5 6 3 4 4 4 5 5 8 7 5 11 6 5 7	14 14 13 13 12 11 13 10 11 17 18 13 15 16 18 17	6 6 5 5 5 5 4 6 4 5 6 8 6 6 8 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6	11 14 12 12 13 15 15 15 12 12 11 13 14 14 16 17 15 15	6 12 5 6 10 12 11 11 10 9 11 13 12 9 9 8 11	9 12 6 11' 12 8 9 6 7 11 6 7 14 5	7 9 6 7 8 8 8 7 7 8 9 9 10 8 9	12 17 20 23 16 20 19 16 15 10 13 9 12 12 14 17	13 39 15 20 24 14 20 23 12 25 24 24 17 13 18 22 24		1 1 1 0 0 2 1 2 2 0 1 1 1 2 2 2 1 1 1	6656565565566556655	17 18 15 14 14 20 16 16 17 15 19 14 15 14 15 14 15 17 15 19 14 15 15 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	7 7 6 6 6 8 6 7 7 6 6 6 6 6 7 7 6 6 6 6	61 60 59 62 63 64 62 60 66 61 62 66 65 68 58 60 59	155 160 174 152 162 167 175 169 180 175 177 174 185 193 208 200 209	229 212 236 223 243 229 237 247 253 260 264 255 267 285 287 285	72 70 75 70 75 75 76 77 80 78 80 81 81 85 88 87 88	267 228 271 238 253 247 239 273 296 275 271 288 303 301 326 327 298	207 247 217 292 216 197 235 240 248 264 214 279 255 282 278 306 279

Table LXXXI.—continued

	1952	-					1 11	- 33	10.7	1 33	502	1-190	Harada.	1 0		1	4.0	9	30.				
	Period	- 5					Males	36 36 53	195 195 195	40 42	432 439		3					Fer	males	12.75	13	158	282
	1946	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 EADR	65-	75 and over	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 EADR	65-	75 and over
	1943	- 1		0	PE	NIS (I.	S.C. No	. 179 pa	rt)	30	350			13	7000	VAGI	3. 13		I.S.C. No	o. 176 pa	100	147	340
	1911–20 1921–30 1931–35		Not a	vailable		0 0 0	3 2 3	9 9 9	29 22 21	6 5 5 5	51 58 52	108 118 126		Not a	vailable	-	1 0 0	6 6 5	20 19 19	49 49 43	12 11 10	100 104 111	174 189 206
	1936 1937 1938 1939 1940 1941		3/3== 10	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		0000	3 0 1 1 3	7 7 7 5 6	27 20 14 20 13	6 4 3 4 4	56 50 48 38 33	140 100 110 142 117		- 0		2 1 1 1 1 2	1 0 1 0 1	5 4 6 4 4	15 14 21 16 14	44 44 40 37 43 49	10 10 11 9 10	107 108 107 88 91	181 177 181 213 194
	1941 1942 1943 1944 1945 1946				$\frac{1}{1}$	0 0	2 0 2 2 2 2	7 6 6 8 7	19 13 16 16 17	4 4 4 4	48 38 33 54 49 50 37 35	135 129 72 95 54	- - 1	<u>-</u>	$-\frac{1}{0}$	1 1 1 1		5 5 7 5	16 15 14 17 17	49 48 38 32 30 37 37 37 37	11	98 104 105 98 85	180 185 210 156 171
179	1947 1948 1949 1950 1951				- 0 1 -	0 0 0 0	1 1 1 2 2 2	7 5 3 2 3	9 15 10 9 11	3 3 2 2 2 2 2 3	35 33 43 28 28 23 31	80 79 77 93 89 96	$\begin{bmatrix} \frac{1}{l} \\ \frac{1}{l} \end{bmatrix}$	<u></u>		2 0 1 2 0		4 5 4 3 3	13 17 10 14 11	26	9 8 9 9 8 8	83 80 80 78 93	138 169 167 144 176
-	1952	10		_	0	0	1	4	12 10	2	24	79	2	170		1	1	4 4	8 9	33 25	7 6	75 84	165 174
	1011 00						19	70	09	10	10	EAST (I.S	S.C. No	0. 170)	0		1 1	2	13	38	10	93	- 90
	1911–20 1921–30 1931–35	THE STATE OF THE S	Not av	ailable		0 0	1 1 1	3 3 3	6 8 9	2 2 2	12 14 17	25 27 33	100	Not av	ailable	and the same	6 7 8	176 187 189	474 508 529	696 782 839	210 231 244	946 1,052 1,098	1,503 1,740 1,849
	1936 1937 1938	1111	=	=	0 0	0 0	1 2 1	6 1 3	9 11 7	2 2 2 2 2 2 2	17 17 15	51 21 28 27 32	1	0 0	0 1	32 27 27 26 29	9 8 8	190 192 194	544 520 547	865 831 866	251 242 252	1,126 1,109 1,054	1,769 1,637
	1939 1940 1941 1942	=		<u>o</u>	0 0	0 0	1 1	3 2 5 5	8 9 7 6	2 2 2 2	13 15 16	38	_	N-47	1 1 1	26 29 32 32	9	197 188 208	528 535 550	847 855 814	246 247	1,140 1,145 1,051	1,714 1,780 1,684 1,588
	1943 1944 1945	_	$\frac{-}{o}$	=	$\frac{0}{0}$	$\frac{0}{0}$	2 2 1	5 7 2 3	10 6	3 2	24 26 15 17	16 34 20 46	- - 1	(m)	$\frac{1}{1}$	31 27 31	9 9 8 9	194 203 210 198	531 518 530 500	834 827 786 785	247 245 243 239 233 247	1,158 1,134 1,085 1,068	1,580 1,613 1,599 1,596
	1946 1947 1948 1949	=			$\begin{bmatrix} 0\\1\\-0 \end{bmatrix}$	$\frac{0}{0}$	1 2 1 1	6 2 1 3	6 9 5 11	2 2 2 1 2	19 15 25 18	21 31 26 32	=		0 2 1	32 31 30 33	9 9 9 10	211 224 211 206	531 520 514	834 785 804 763	247 240 240 230	1,122 1,092 1,082	1,629 1,717 1,712
-	1950 1951 1952		=	=	0 0	0 0	1 1 1	3 3	5 8 6	2 2 2 2 2	14 13 14	32 31 25 24	=		2 1 1	31 30 30	9 9	215 223 217	493 522 502 513	770 777 791	237 236 239	1,112 1,052 1,060 1,114	1,754 1,675 1,634 1,653

														31	- T	Tomolos				1375.	1932
					Males		11							30		emaies			1		
0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 E A D R	65-	75 and over	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 EADR	65-	75 and over
									KID	NEY* (I.S	S.C. No	. 180)						350		1775	
_						No	t availal	ble							-		N	ot availa	able		
	Not av	ailable		4	10			16	72	71		Not av	ailable	30	3	5	16	35	10	58	60
22 13 15 14	3 2 2 1	1 1 1 1	2 4 4 3	5 4 4 3	13 14 11 9	27 26 32 37	53 62 61 57	17 18 18 18	80 90 79 70	54 66 79 72	11 9 9 16	1 4 2 3	1 1 1 1	2 2 1 3	3 3 2 4	6 3 7 3	15 18 14 18	31 35 32 36	9 10 9 11	63 55 61 56	67 72 60 67 60 54 63
12 19 13 15	1 4 2 2 2 2	1 1 1 1 1	1 2 3 4 2	3 5 4 4 3	7 10 8 5 9	25 30 28 31	57 68 56 59 64	15 19 16 17	74 78 74 104 78	66 63 74 65	15 13 6 15	2 2 1 3	1 1 0 0	2 3 1 1	4 4 1 3	6 5 6 6	15 16 17	30	9 10 10 11	47 59	54 63 69 80 58
15 14 18 11	1 1 4 3	1 1 1 1 1 1	3 3 4 3 2	4 3 5 4 4	9 8 7 9	29	72 63 76 80 71	19 17 20 21	78 90 107 107 122	66 90 88 90 93	15 15 14 16	2 2 3 2		3 1	3 4 4 4 3	6 4 8 5	17 15 15	35	11 10 12 10	63	71 72 56 93 89 87
16 12 15	1 4 3	1 1	3 2 2	4 4 4	11 12 13	38 39 36	94 88 81	24 23 22	104 113 134	120 116 145	13 15 18	3 4 3		2 2 2	4 4	6 6	13 14 16	28 40 42	11 12	71 72	87 106
								BL	ADDER	, URETH	RA† (I	s.c. N	o. 181)							- 485	
	Not a	vailable		1 1 0	8 8 9	36 38 47	124 132 139	26 28 30	297 309 332	385 467 523		Not a	vailable		0 0 0	4 4 4	15 17 14	43 48 44	10 11 10	91 108 111	133 173 190
1 1 1 1		0 0	2 2 2 1	1 1 1 0	10 8 9 7	44 45 47 47	136 145 152 149	30 31 32 31	295 335 362 325	598 497 520 560	= - 1	= 0	${0}$		0 0 0	3 4 3 3	17 12 14 15	57 45 54 55	12 10 11 11	109 137 108 126	199 158 154 231
1 2 1	0 0	$\begin{bmatrix} 0 \\ 0 \\ - 0 \end{bmatrix}$	2 2 1 1		11 11 11 11	43 59 61 60	168 156 180 178	35 35 39 39	342 377 355 393	553 586 623 589	=	0 -	<u>-</u>	1 1 0	0 0	6 2	19 20	63 58	10 12 13 13	111 124 141	23 23 22 25 21 19
1 3 -1			1 2 2 1	0 1 1 0 0	7 8 15 10	52 63 53 52	176 169 179	34 39 37 37	379 396 380	552 599 668		-	=	1 1 0	0 0 0	5 4 4 4	18 20 20	52 59 51	12 13 12 12	126 143 136	24
2 1		- 0 0	0 1 1 2		11 9 9 11 11	56 56 59 63 66	195 203	40 42 44	424 432 439 473 502	752 741 798 890	2 1 1	- - 0		- 1 1	0 0 0	4 4 2 6	19 18 21 19	58	13 12 12 12	134 158 134 120	24 24 26 25 28 27 29
	22 13 15 14 12 19 13 15 14 18 11 15 16 12 15 16 12 15 16 11 11 11 11 11 11 11 11 11	Not av 22 3 13 2 15 2 14 1 19 4 13 2 15 2 15 1 14 1 18 4 11 3 15 4 16 1 12 4 15 3 Not av 1	Not available 22	Not available 22	Not available Not available A E A D R	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available

^{*} Excludes Ureter 1931 to 1949. Includes suprarenal 1931 to 1937. † Includes Ureter 1911 to 1949

Table LXXXI.—continued

19621			commi		1 0		1 19	120		in.	- 30		i de la compania del compania del compania de la compania del la compania de la compania del la compania del la compania de la compania del la compania d									14
Period			l w	6	0	Males	alpa 3									0 0	Femal	es 13	30	1 1	13	60
renou	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 EADR	65-	75 and over	0-	5	15-	25-	0-34 E A D R	35-	45-	55-	0-64 EADR	65-	75 and
7 ANY 2 1.364%			1 0					. 1		SK	IN * (I.S	.C. 190	191)	loss		EADK		19	31	EADK	43	over
1911-20 1921-30 1931-35		Not a	vailable		1 1 1	9 8 7	29 26 22	79 82 64	19 18 15	187 210 201	643 705 674		Not av	vailable		1 1 1	5 7 5	15 13 13	42 36 32	10 9 8	111 102 84	371 388 379
1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 ⇒ 1950 1951 1952			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 2 1 1 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 2 1 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2	2 3 2 2 2 3 3 3 3 3 2 6 3 2 2 3 4	1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	6 8 5 6 5 7 6 7 5 10 8 7 8 6 8 6	23 18 14 17 25 22 16 16 19 16 20 16 14 14 14 18 17	59 58 52 52 53 47 49 53 42 46 45 46 40 38 40 34 31	14 14 12 12 13 13 12 13 11 12 12 12 12 10 9	160 172 164 154 130 161 148 156 132 145 113 120 105 112 123 87	633 582 622 525 567 520 451 515 464 425 386 390 409 377 382 346 306		0 0 0 0 0 1 1 0 0 0 1 0 0 1 0 0 0 0	1 2 2 1 1 1 2 1 1 2 1 1 2 1 2 1 2 1 2 1	1 4 3 3 4 5 4 3 4 7 5 4 7 5 4 7	1 2 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 5 9 6 6 4 6 6 7 8 6 7 6 9 7	18 14 18 15 14 11 13 14 15 16 8 9 12 13 14 11 13	30 42 25 25 27 28 30 36 27 27 26 29 22 22 29	9 10 9 8 8 8 9 9 8 9 7 8 7 8 9	92 74 85 72 73 71 70 65 72 67 64 60 58 57 55 50	318 294 300 278 279 271 275 266 251 252 238 242 215 226 218 185
1000			10	SCRO	TUM †	(1	S.C. No	. 179 pa	rt)							1	10		7.00	12		87
1911-20 1921-30 1931-35			19	1	No	ot availa	ible	111		2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												
1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951							3 3 2 3 2 2 1 1 - 0 3 1 4 2 1 2 1	7 10 7 3 7 7 7 9 5 5 6 3 4 4 2 2 2 2	2 2 2 1 2 2 2 1 1 1 1 1 1 1 1 1 0	14 22 20 17 16 20 15 16 13 8 14 8 8	19 32 26 32 32 19 29 30 18 14 24 24 10 19 25											

^{*} Includes Anus from 1931. Includes Scrotum 1911 to 1935. † For years 1911 to 1935 see Skin

	1000						Males		*	5		- 1						Fe	emales				
	Period	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 EADR	65-	75 and over	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 E A D R	65-	75 and over
	1000				_ Q	0		1		BONES	(EXCE	PT JAW)	(I.S.C.	Nos. 16	60 and 1	196 part)						
	1911-20 1921-30 1931-35		Not av	ailable		7 8 8	12 13 11	25 27 32	52 56 52	17 19 19	77 83 82	89 109 84		Not av	vailable		5 6 6	8 11 11	22 23 23	39 40 37	13 15 14	57 66 61	82 86 68
182	1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952	5 4 2 3 3 3 2 5 1 3 1 4 1 2 4 2	4 3 6 4 3 6 7 6 6 5 5 5 5 5 5 4 5	15 17 17 14 13 14 12 16 15 12 12 15 14 12 17 13 14	11 12 9 7 7 9 8 7 9 5 7 9 5 7 9 6 7 5	9 10 9 8 7 9 8 9 9 7 7 7 8 7	15 12 15 16 10 17 11 15 11 11 12 11 9 9	30 25 27 36 31 27 38 35 30 35 33 28 25 27 19 21 24	58 50 62 59 61 60 65 65 65 67 63 55 55 59 53	21 19 21 21 19 21 22 23 21 21 20 19 17 18 17 16	96 76 99 82 97 103 114 110 85 90 87 88 91 94 77 86 73	140 103 89 97 117 130 102 117 117 122 132 104 103 127 113 127	4 3 4 6 4 2 2 3 5 3 6 6 6 3	5 6 5 4 3 6 5 6 5 4 3 3 5 6 5 4 3 3 5 6 3 6 3 6 3 7 6 3 7 6 7 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	9 8 10 6 6 10 10 10 8 8 8 8 7 9 8 8	7 6 9 6 7 5 7 6 6 6 4 4 4 6 3 6 5	76755677665556556	11 10 14 11 11 10 10 10 8 9 8 9 8 7	24 22 21 21 20 18 20 23 29 22 23 20 19 21 11	45 42 40 40 45 39 41 40 39 42 38 39 40 37 25 27	16 15 16 14 14 14 15 15 15 14 11 13 13 14 11 10	70 68 55 50 63 72 77 72 64 67 60 56 61 72 50 41	64 101 58 63 83 65 111 95 84 87 81 89 91 79 77 66
	1932	1		12			trans a significan	10	32			OID GLA	0	.C. No.	194)				-4	- 30			221
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Table LXXXI.—continued

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Table LXXXI.—continued

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	Period	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 EADR	65-	75 and over	0-	5-	15-	25-	0-34 E A D R	35-	45-	55-	0-64 EADR	65-	75 and over
-			N	EOPLA	SMS (N	MALIG	NANT	BENIG	N, AND	UNSPE	CIFIEL	O) OF BR	AIN A	ND C	ENTRA	L NER	vous	SYSTE	EM (I.S.C	. Nos. 1	93, 223,	237)	
	1911-20 1921-30 1931-35		- Andrew	Pet I II.			Not a	vailable]	Not ava	ilable		100		
184	1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951	25 21 22 23 21 33 21 23 22 22 22 18 32 25 27 18 37 28	21 18 21 18 26 17 17 22 21 22 23 20 19 26 20 17 21	16 19 17 17 20 16 22 14 16 17 13 19 18 20 15 16	26 33 28 31 25 27 26 29 24 29 28 32 31 30 25 31 26	22 23 22 22 23 22 22 22 22 21 23 21 25 23 26 20 24 23	57 54 53 54 57 58 55 55 54 58 60 60 62 56 61	94 90 106 99 97 108 104 93 89 107 119 101 120 114 111 116	100 114 97 112 106 95 98 95 105 122 120 134 143 162 160 169 185	50 52 51 53 53 52 51 49 49 56 57 59 62 65 62 65 68	52 60 60 57 51 57 59 71 53 65 59 65 82 81 85 96	30 32 33 35 7 9 23 36 28 25 21 27 35 25 36 36 36 27	15 12 14 21 22 12 19 15 20 16 23 24 22 28 23 19 23	12 16 15 19 15 16 20 23 16 19 20 14 15 14 17 14	22 17 14 18 18 12 20 19 15 15 15 16 14 14 17 14	24 24 20 26 29 29 22 24 26 25 24 29 22 26 25 24 29 29 31 31 31 31 31 31 31 31 31 31 31 31 31	19 18 16 21 21 18 20 21 19 20 20 20 18 19 20 18	46 38 52 47 47 42 38 44 39 47 45 37 40 42 44 42 38	74 69 66 71 65 76 56 66 66 78 74 80 73 76 85 74	81 74 76 82 68 60 69 66 70 80 79 82 83 97 98 96	41 38 38 42 39 37 36 38 37 42 41 41 40 44 45 42 41	57 58 45 52 45 45 42 42 43 43 45 57 58 56 66 61 65	37 31 42 32 19 25 21 18 39 24 19 25 28 32 41 31

Table LXXXII—Leukæmia and aleukæmia (6th Revision, No. 204). Deaths and death rates per million living, by sex at ages 0-14 and 15 years and over, in Standard Regions and in Urban and Rural aggregates within four regional groups, 1946-52.

			M	ales			Fen	nales	
Stand	dard Regions	0-14 3	ears	15 y and		0-14	years	15 y and	ears over
		Deaths	Rate	Deaths	Rate	Deaths	Rate	Deaths	Rate
North of England Northern East and West Ridings	Urban Aggregate	299	221	1,298	307	238	183	1,134	231
North Western	Rural Aggregate	39	196	159	244	32	169	149	224
Midlands and East North Midland Midland	∫ Urban Aggregate	235	257	894	318	157	180	795	251
Eastern	Rural Aggregate	69	205	331	301	58	180	290	259
South of England London and South Ea	stern \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	377	264	1,793	371	303	219	1,763	301
South Western	Rural Aggregate	83	266	346	336	75	254	319	284
Wales I	Urban Aggregate	58	280	186	285	31	159	140	193
Wales II	Rural Aggregate	22	255	109	369	11	131	73	241

Table LXXXIII.—Leukæmia and aleukæmia (6th Revision, No. 204). Deaths and death rates per million living, by sex at ages 0-14 and 15 years and over, in each County Borough and Administrative County of England and Wales, 1946-52.

		Ma		8	2 5	Fen	nales		1 8 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total O	Ma	ales			Fen	ales	
County Borough	0-14 y	ears	15 year		0-14 у	ears	15 ye and o		County Borough	0-14 y	ears	15 ye and o	ars	0-14 y	ears	15 ye and	
CONTRACTOR OF THE PARTY OF THE	Deaths	Rate	Deaths	Rate	Deaths	Rate	Deaths	Rate		Deaths	Rate	Deaths	Rate	Deaths	Rate	Deaths	Rate
Barnsley Barrow-in-Furness Bath Birkenhead Birmingham Blackburn Blackburn Blackpool Bolton Bootle Bournemouth Bradford Brighton Bristol Burnley Burton upon Trent Bury Canterbury Carlisle Chester Coventry Croydon Darlington Darlington Derby Dewsbury Doncaster Dudley East Ham Exeter Gateshead Gloucester Great Yarmouth Grimsby Halifax Hastings Huddersfield Ipswich Kingston upon Hull Leeds Leicester Lincoln Liverpool	1 3 1 4 31 5 1 6 3 3 3 5 7 2 2 1 1 1 2 8 4 2 2 2 3 2 2 2 1 1 3 6 5 7 7 7 5 1 2 4	103 382 124 233 239 500 83 340 303 225 99 330 143 229 345 323 135 392 274 154 198 267 179 113 458 317 163 276 203 292 323 83 106 451 441 412 184 131 154 140 231	2 6 8 20 120 15 17 12 8 23 35 23 47 5 7 6 5 4 4 3 23 34 10 15 9 10 3 9 22 14 11 7 7 7 14 5 15 10 10 10 10 10 10 10 10 10 10 10 10 10	72 239 309 408 302 371 323 200 329 492 346 432 298 452 467 179 242 376 330 286 468 327 131 485 494 405 216 408 246 318 318 351 318 318 318 318 318 318 318 318 318 31	2 1 2 5 27 3 1 1 3 4 3 2 7 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	221 127 247 287 211 293 80 61 287 329 102 138 148 242 194 381 392 288 204 227 162 110 ——————————————————————————————————	5 4 15 11 108 12 9 12 9 32 26 30 46 7 3 8 2 4 5 24 37 10 22 1 9 4 10 19 12 8 4 10 10 10 10 10 10 10 10 10 10 10 10 10	178 154 414 197 243 239 126 165 340 468 203 417 252 193 149 313 180 247 348 285 374 46 281 158 374 46 281 1158 377 177 151 141 112 208 535 272 304 213 301 256	Manchester Middlesbrough Newcastle upon Tyne Northampton Norwich Nottingham Oldham Oxford Plymouth Portsmouth Preston Reading Rochdale Rotherham St. Helens Salford Sheffield Smethwick Southampton Southend-on-Sea Southport South Shields Stockport Stoke on Trent Sunderland Tynemouth Wakefield Wallasey Walsall Warrington West Ham West Hartlepool Wigan Wolverhampton Worcester York Cardiff Merthyr Tydfil Newport (Mon.) Swansea	21 21 21 22 66 23 97 72 34 21 44 15 35 44 75 44 62 34 52 66 52 66 52 66 52 66 54 54 54 54 54 54 54 54 54 54 54 54 54	266 99 332 186 163 162 157 297 399 152 251 476 2251 476 267 335 242 250 394 265 86 176 271 201 518 193 271 201 518 196 282 746 162 292	87 12 37 16 17 37 14 15 21 22 8 13 8 6 11 16 60 15 24 14 11 18 14 29 14 7 6 13 23 7 9 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	355 234 355 432 396 353 319 395 294 272 182 311 212 196 274 257 318 557 381 279 384 485 277 292 225 308 268 393 571 250 285 253 324 300 233 319 426 404 267 238	15 5 5 3 7 1 2 3 8 2 3 1 3 2 6 14 3 3 8 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	198 273 155 291 207 83 202 135 313 163 239 129 306 150 293 253 357 252 269 138 261 202 228 90 — 183 456 222 203 209 112 552 77 462 338 122	78 18 31 11 14 25 9 10 13 17 10 8 8 8 9 15 50 6 16 17 14 19 18 31 19 15 6 5 17 8 8 15 5 10 24 4 10 7	266 333 257 240 271 201 173 228 161 185 206 267 209 250 211 206 235 188 223 250 211 206 235 188 300 287 208 335 448 300 287 208 208 208 208 208 208 208 208 208 208

Table LXXXIII.—continued

2	MAN DO	Ma	ales	DRIE STEEL		Fen	nales		9 82888	322	М	ales	Ken	Toll a	Fen	nales	
Admin. County	0-14 y	ears	15 ye and o		0-14 y	ears	15 yeand o		Admin. County	0–14 y	ears	15 ye and o		0–14 y	ears	15 ye and o	
	Deaths	Rate	Deaths	Rate	Deaths	Rate	Deaths	Rate	2 17 1	Deaths	Rate	Deaths	Rate	Deaths	Rate	Deaths	P.ate
London Bedfordshire Berkshire Berkshire Buckinghamshire Cambridgeshire Cheshire Cornwall Cumberland Derbyshire Devon Dorset Durham Ely, Isle of Essex Gloucestershire Herefordshire Hertfordshire Huntingdonshire Kent Lancashire Lincoln (Pts. of Holland) Lincoln (Pts. of Kesteven) Lincoln (Pts. of Lindsey) Middlesex Norfolk Northumberland Nottinghamshire Oxfordshire Rutland	86 11 12 17 1 18 14 10 26 14 7 22 1 39 8 6 6 1 43 47 9 2 1 10 65 9 10 10 11 11 4 11	262 315 376 402 58 203 388 370 329 275 233 200 101 221 153 418 91 130 255 240 168 276 274 215 348 200 175 222 357	457 41 31 48 19 101 29 14 66 75 41 93 8 207 41 17 7 191 222 42 15 15 42 283 33 22 40 64 23 2	376 358 296 345 299 347 238 180 263 412 403 279 239 368 272 375 339 272 360 302 329 410 318 374 347 242 228 248 329 356 261	69 6 10 11 5 12 9 4 10 5 6 23 	219 191 338 276 324 145 268 169 128 104 208 219 — 182 337 73 171 289 155 134 86 215 178 184 317 146 189 183 381	457 24 29 43 17 71 50 19 75 60 46 71 10 164 40 12 72 8 8 219 189 30 9 17 25 271 38 15 40	311 195 251 280 243 209 347 228 283 270 386 207 290 255 236 237 289 323 347 223 218 231 350 215 280 270 147 231 267 345	Peterborough, Soke of Salop Somerset Southampton Staffordshire Suffolk, East Suffolk, West Surrey Sussex, East Sussex, West Warwickshire Westmorland Wight, Isle of Wiltshire Worcestershire Yorks. (East Riding) Yorks. (North Riding) Yorks. (North Riding) Anglesey Brecknockshire Caernarvonshire Cardiganshire Cardiganshire Carmarthenshire Denbighshire Flintshire Glamorganshire Merionethshire Monmouthshire Montgomeryshire Pembrokeshire Radnorshire Radnorshire Total	3 11 13 18 38 4 3 48 8 7 11 3 6 7 15 4 4 36 1 3 5 2 2 3 3 25 1 14 5 2 8 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	426 322 256 252 371 165 236 338 233 205 189 403 594 178 315 182 93 199 202 488 382 412 11154 179 292 2357 510 889 252	7 44 60 87 72 21 14 212 39 32 62 6 16 44 36 22 24 163 27 26 16 75 5 31 6 8 7	305 418 357 398 233 271 312 459 350 301 353 256 486 306 255 284 175 238 228 397 410 420 312 277 330 257 353 243 854	3 10 13 15 4 4 31 7 13 11 1 2 10 9 5 7 27 1 1 4 4 13 1 1 1 4 4 1 1 1 1 1 1 1 1 1	95 207 194 147 171 227 217 414 202 144 202 144 229 203 227 170 154 	8 18 49 72 84 27 9 183 57 46 60 7 12 29 38 22 31 154 8 6 12 6 14 12 58 3 17 7 7 8	317 168 248 248 295 260 312 194 313 308 313 244 287 206 240 255 219 242 265 231 204 213 202 190 141 380 226 137 267

ACCIDENTAL AND VIOLENT DEATHS

In 1952, there were 18,802 deaths (11,992 males; 6,810 females) due to accidents and violence; this was fewer than in 1950 or 1951, when 18,889 and 19,756 accidental or other violent deaths were registered. The percentage distribution according to the external cause of death was broadly as follows:

	M	ales	Fen	nales
A THE AMERICAN DESIGNATION OF THE PARTY OF T	Numbers	Percentage	Numbers	Percentage
Motor vehicle traffic accidents Other motor and road vehicle accidents Rail, water and air transport	3,013 363 818	25 3 7	958 88 86	14 1 1
Accidental poisoning Falls	400 1,676 321 713 2,788 102 1,798	3 14 3 6 23 1 15	443 2,402 510 182 1,550 93 498	7 35 8 3 23 1 7
Total violent deaths	11,992	100	6,810	100

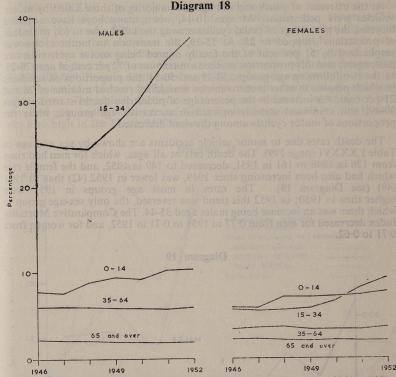
Road accidents involving motor vehicles continued to take a heavy toll of male lives, one quarter of all violent deaths, whereas over one-third of the female deaths were due to falls. Nearly a quarter of the violent deaths of both sexes were suicides.

Table LXXXIV., (page 198) shows the trend in violent death rates since 1901. While there has been considerable reduction in the death rates of school children, those for young men, which have been increasing since 1948, give cause for anxiety. At ages 15 and over, female death rates were lower in 1952 than in 1951, and there was also a reduction in rates for men aged 45 and over.

In Table LXXXV., (page 198) and Diagram 18, violent deaths are shown as a percentage of deaths from all causes. During 1946-52, the proportion of such deaths at ages 35-64 and 65 and over has remained fairly constant, that for males exceeding the females at ages 35-64, while at 65 and over the female proportion was slightly in excess of the male. Among children under 15, the proportion increased in 1948 for both sexes and has tended to go on increasing. Since 1948 there has been a spectacular increase in the proportion of violent deaths of young men aged 15-34, accompanied by some increase in that for women of the same ages. While total deaths of young men have decreased by 27 per cent from 10,308 in 1948 to 7,564 in 1952, violent deaths have increased by 12 per cent from 2,537 to 2,848. The wastage in young men's lives by accidental death calls for investigation and preventive measures.

Railway Accidents

An average of 321 men and 33 women were killed annually in railway accidents during 1949-51; in 1952 the numbers were 390 males and 59 females. This may be compared with the annual average of 518 male and 52 female deaths during the years 1940-44, when operating conditions were affected by war-time circumstances. Of the men who were killed in 1952, 184 (47 per cent) were known to be railroad employees and 107 (27 per cent) were passengers.



Percentage of total deaths attributable to accidental and violent causes, 1946 to 1952

Motor and Other Road Vehicle Accidents

Motor vehicle traffic accidents in 1952 caused the deaths of 3,013 males and 958 females; decreases of 6 and 10 per cent respectively from the average for 1950 and 1951. In addition 134 males and 12 females died in non-traffic accidents and 229 males and 76 females in accidents involving road vehicles other than motor. The following table shows for males of various age groups, the percentage distribution of deaths from motor vehicle traffic accidents of different types:

		Accident	Accident to Pedal	Accident t passenger Cy	of Motor	Accident to occupant of other		Total
Age grou	p	Pedestrian	Cyclist	Collision	Non- collision	motor vehicle	Total	of deaths
0-4		93	3		-00	4	100	187
5-9		80	11	1	-	8	100	178
10-14		25	65	1	_	9	100	99
15-19		12	26	37	14	11	100	206
20-29		6	6	50	22	16	100	656
30-49		16	13	34	11	26	100	729
50-54		31	29	14	5	21	100	133
55-64		50	21	11	4	14	100	285
65-79		68	17	3	1	11	100	414
80 and over		86	6	1	1	6	100	126

At the extremes of youth and old age, the majority of those killed by motor vehicles were pedestrians. At ages 10-14, when many boys have acquired bicycles, the percentage of pedal cyclists among the killed rose to 65, while that of pedestrians dropped to 25. At 15-19, the transition to motor cycles was emphasized by 51 per cent of the fatally injured being motor cycle riders or passengers; and this proportion reached a maximum of 72 per cent at ages 20-29. In the two following age groups, 30-49 and 50-54, the proportions of accidents in which persons in other motor vehicles were killed reached maxima of 26 and 21 per cent. An increase in the percentage of pedestrian deaths started at ages 30-49, and continued steadily upward in successive age groups, while the proportions of motor cyclists among the dead decreased.

The death rates due to motor vehicle accidents are shown by sex and age in Table LXXXVI (page 199). The death rate at all ages, which for men had risen from 126 in 1948 to 161 in 1951, decreased to 149 in 1952, and the female rate which had also been increasing since 1949, was lower in 1952 (42) than in 1951 (49) (see Diagram 19). The rates in most age groups in 1951 were higher than in 1950; in 1952 this trend was reversed, the only sex-age group in which there was an increase being males aged 35-44. The Comparative Mortality Index decreased for men from 0.77 in 1951 to 0.71 in 1952, and for women from 0.71 to 0.62.

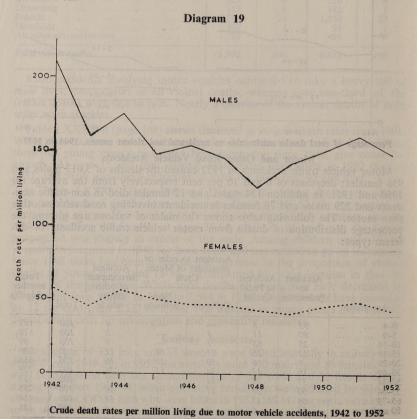
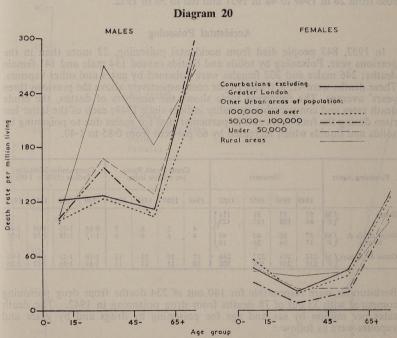


Table LXXXVII., (page 200) shows the regional death rates from motor vehicle accidents according to place of residence (see also Diagram 20). Rates for boys under fifteen were somewhat higher in the conurbations outside Greater London than elsewhere. At ages 15-44 and 45-64, rates for men in rural areas were far in excess of those in other areas, while rates for men of 65 and over were highest in the conurbations and urban areas with population from 50,000-100,000. Female death rates were lowest in each age group in the latter areas, but at 45 and over the highest rates were in the conurbations and large urban areas. The highest death rates for children under 15 occurred, for both boys and girls, in the Northern and North Western regions and for girls the rate was also high in the North Midland region.



Motor vehicle accidents: Death rates per million living according to sex and age in aggregates of urban and rural areas in England and Wales

Table LXXXVIII., (page 201) shows deaths from road accidents according to the type of accident. Deaths of male pedestrians, pedal cyclists and motor cyclists due to motor vehicle accidents were fewer in 1952 than in 1951, but while the number of pedestrians killed in 1952 was only 51 per cent of the average of 1936-40, years when the maximum number of deaths occurred, that of motor-cyclists was roughly the same. Deaths of occupants of motor-vehicles in traffic accidents decreased from 499 in 1951 to 469 in 1952 for men and from 200 to 143 for women; the number of men fatally injured in non-traffic accidents however increased from 57 to 70.

Deaths due to road accidents according to the vehicles involved are shown in Table LXXXIX., (page 202). Accidents in 1952 in which motor goods vehicles were involved not only caused the deaths of 129 of their occupants, but also of 642

pedestrians and 202 pedal cyclists. There were 218 deaths of pedestrians in 1952 due to accidents involving motor and trolley buses, the lowest in the twelve years shown.

Aircraft Accidents

In 1952, 291 men and 20 women died following aircraft accidents, compared with an average of 252 men and 17 women in the two previous years. Of these 291 men, 222 or 76 per cent were personnel in military aircraft. Table XC (page 204) shows the death rates per million living by sex and age. The rate for men aged 20-24 increased from 34 in 1949 to 67 in 1952; at ages 25-34 it rose from 26 in 1949 to 48 in 1951 and fell to 38 in 1952.

Accidental Poisoning

In 1952, 843 people died from accidental poisoning, 23 more than in the previous year. Poisoning by solids and liquids caused 154 male and 141 female deaths; 246 males and 302 females were poisoned by gases and other vapours. These deaths were 41, 9, 6 and 14 per cent respectively above the previous three years' average. The following table shows the numbers of deaths, the crude death rates and comparative mortality indices since 1949; each of the latter has risen during the four years and in particular that for males due to poisoning by solids and liquids which increased by 65 per cent from 0.85 to 1.40.

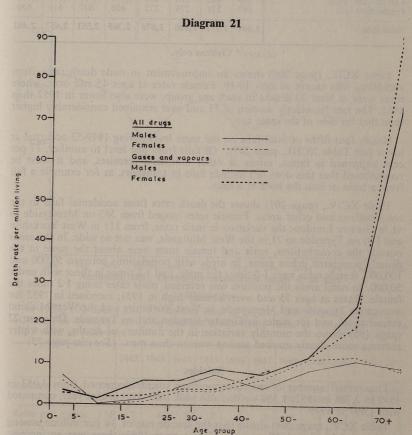
Poisoning Agent	Poisoning Agent Numbers					eath Ra ion livir		Con	nparativ	e Morta 38 = 1	lity 00)	
	1949	1950	1951	1952	1949	1950	1951	1952	1949	1950	1951	1952
Drugs $\begin{cases} M \\ F \end{cases}$	57 84	77 108	81 117	111)			1,2			-A		200
Other solids & {M F	37 17	36 34	40 26	43	4 4	5 6	6	7 6	0·85 1·13	1·02 1·58	1·09 1·58	1·40 1·55
Gases & vapours { M F	232 235	208 255	252 304	246 302	11 10	10 11	12 13	12 13	1·38 1·84	1·23 1·96	1·50 2·32	1.46

Barbiturates were responsible for 140 out of 234 deaths from drug poisoning compared with 33 out of 78 deaths from drug poisoning in 1942. The death rates per million by sex and age for poisoning by drugs and by gases and vapours were as follows:

New Marketon and the last				A	ge Gro	ups			
lists and more regular in 1931, bus lettle the cent of the aperage of	0–4	5–14	15–24	25–29	30–39	40-49	50–59	60-69	70 and over
Drugs $\left\{ \begin{matrix} M \\ F \end{matrix} \right\}$	7·2 5·8	0.0	1·5 0·7	4·5 3·1	7·3 3·1	4·0 6·3	8·5 11·1	11·0 11·8	9.1
Gases and Vapours $\begin{cases} M \\ F \end{cases}$	3.3	1.3	5·9 2·1	5·7 3·8	8·9 3·7	7·4 7·5	11·4 11·1	24·3 19·3	73·3 90·1

The rates were in each case lower at ages 5-14 than at 0-4 and then showed an upward trend, especially marked in the case of gas and vapour poisoning, where rates of 73 and 90 were reached at ages 70 and over (see Diagram 21.)

Table XCI., (page 205) shows that about half the fatal cases of aspirin poisoning in the last four years and rather more than half of those due to poisoning by barbiturates arose at home. There were no fatal cases of corrosive poisoning in industrial places in 1952, but 24 of gas poisoning. The majority of fatal cases of utility gas poisoning arose at home.



Accidental poisoning: Death rates per million living according to age

Accidental Falls

In 1952, 1,676 males and 2,402 females died from injuries received in falls, compared with 1,816 males and 2,657 females in 1951. About one-fifth of the fatal falls for both sexes occurred on stairs; falls from one level to another caused 36 per cent of male compared with 12 per cent of female deaths; and falls on the same level, 29 per cent as opposed to 42 per cent. The following table shows the distribution of fatal falls by place of occurrence from 1949 to 1952:

nativa souther showed an	eas to	Case l	Males	agt sea marke	o googa yttaide	Fen	ales	aver a
	1949*	1950	1951	1952	1949*	1950	1951	1952
Falls on stairs Falls from ladders	290 81	260 83	320 95	321 88	463	458 6	502 5	488 13
Other falls from one level to another Fall on same level Unspecified falls	614 509 167	555 448 231	607 516 278	507 485 275	355 1,131 406	365 1,115 607	423 1,111 616	267 1,004 630
Total falls	1,661	1,577	1,816	1,676	2,365	2,551	2,657	2,402

* Civilians only.

Table XCII., (page 206) shows an improvement in male death rates from accidental falls except at ages 10-19. Female rates at ages 45 and over, where there were at least 20 deaths in each age group, were also lower in 1952 than 1951. The rate for elderly women of 75 and over remained considerably higher than that for men of the same age.

Nearly four-fifths of fatal falls on the same level during 1949-52 occurred at home (see Table XCIII., page 207). Of falls from one level to another, 17 per cent happened in farms, mines or other industrial premises, and it must be remembered that this does not include falls in transport, as for example a fall from a train or into the hold of a ship.

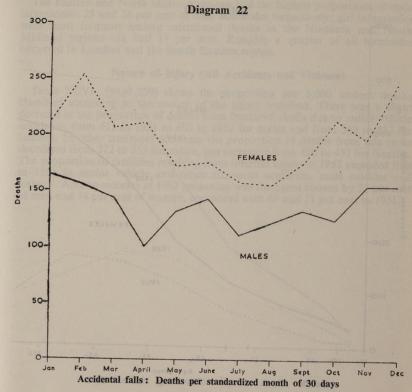
Table XCIV., (page 207) shows the death rates from accidental falls in the conurbations and other areas. Female rates ranged from 363 on Merseyside to 41 in Greater London; the variation in male rates, from 111 in West Yorkshire and 110 on Tyneside to 71 in the West Midlands, was not so wide. In the areas outside the conurbations, male and female rates were about the same in the densely populated urban areas; in areas with populations between 50,000 and 100,000, female rates were 1·2 times the male, and 1·8 times in those with under 50,000. In rural areas the position was reversed, male rates being 1·2 times the female. Rates at ages 75 and over, already high in 1951, increased in 1952 for women on Tyneside and Merseyside, in West Yorkshire and the West Midland conurbation, and for males in Greater London and on Tyneside. Diagram 22 (page 195) shows the monthly variation in the numbers of deaths, with winter maxima more clearly marked among women than men. (See also page 75)

Suicides

The annual number of males committing suicide decreased from 3,053 in 1949 to 2,788 in 1952; 1,550 women also took their lives in that year, compared with 1,697 in 1949.

Table XCV., (page 208) shows that the suicide rate of 34 per million among youths aged 15-19 in 1952 was the highest since 1947; there was an increase also in the women's rates in this age-group from 9 in 1951 to 11 in 1952. There was no increase in female rates at other ages, but, while male rates decreased at ages 45-54 and 65 and over from the 1951 rates, in the age group 55-64 the rate rose from 303 to 320.

In Diagram 23 (page 196) the rates for the last pre-war year, 1938, are compared with those for 1952. The reduction in male rates is greatest at ages 55-64, perhaps due to conditions of full employment. In 1938, the peak of female rates was at ages 55-64, but by 1952 it had shifted to ages 65-74, where also the 1952 rate was in excess of that for 1938.

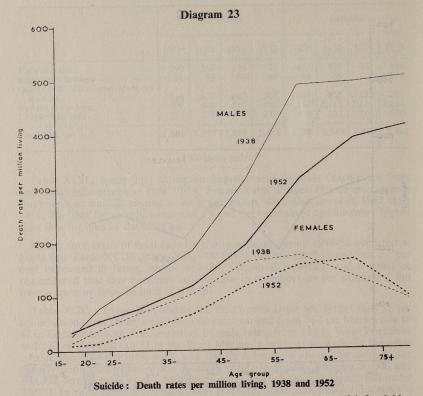


Homicides

In 1952, 102 males and 93 females died of injuries intentionally inflicted by others. The numbers so dying and the crude death rates in the period 1942 to 1952 were as follows:

	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952
Numbers $\cdots \begin{cases} M \\ F \end{cases}$	149 127	131 116	104 106	153 134	102 117	98 124	126 102	90 115	107 107	99	102
Rates per million {M F	7 6	6 5	5 5	7 6	5 5	5 6	6 5	4 5	5 5	5 4	5 4
Legal executions in- \(\) M cluded in above \(\) F numbers	18	17	12	17	22	10	9	15	18	14	23
Ratio of legal execu- tions per 100 homi- cides (Persons)	6.5	6.9	5.7	5.9	10.0	4.5	3.9	7.8	8.4	7.7	11.8

The years 1942 and 1945 were peak years for homicidal deaths; by 1951 and 1952 the numbers had fallen to 182 and 195 respectively. There was a high number of legal executions in 1952 and the percentage ratio of legal executions



to homicides reached the peak value of 11.8. The proportion of infanticides among the deaths was 18 per cent for males and 13 per cent for females. The regional distribution of intentional deaths is shown for the years 1948-52 combined in the following table:

1391 1591		Ma	iles	2501 1545	E REPORT !	Fem	nales	
Standard	Infan	ticide	Ot	hers	Infai	nticide	Ot	hers
Region	Numbers of deaths	Per cent of all homicides	Numbers of deaths	Distribu- tion per 100 in England and Wales	Numbers of deaths	Per cent of all homicides	Numbers of deaths	Distribu- tion per 100 in England and Wales
England and Wales Northern	91 6	18 16	404 32	100	65 7	13 21	433 27	100
East and West Ridings North Western North Midland Midland Eastern	12 10 6 14 10	19 15 24 21 28	51 57 19 53 26	13 14 5 13 6	6 10 8 4 4	14 14 17 9 10	37 59 38 43 38	9 13 9 10 9
London and South Eastern Southern South Western Wales	18 4 3 8	16 16 12 21	92 21 23 30	23 5 6 7	19 3 3 1	14 11 10 4	116 25 26 24	26 6 6 6

Nature of Injury (All Accidents and Violence)

Table XCVI., (page 209) shows the proportion per 1,000 violent deaths classified according to the nature of the injury involved. There was a slight decrease in the proportion of deaths from fractured skulls due to motor vehicle accidents, from 611 in 1951 to 603 in 1952 for males and from 560 to 537 for females. In other transport accidents the proportion of deaths from this cause decreased from 372 to 355 for males, but increased from 410 to 457 for females. The proportion of fatalities resulting from internal injury in 1952 exceeded that in 1951 in motor vehicle and other transport accidents, male suicides and 'others'. Among suicides in 1952 poisoning was the agent chosen by 53 per cent of men and 74 per cent of women, compared with 49 and 71 per cent in 1951.

Table LXXXIV.—Accidents and violence: Death rates per million living by sex and age, 1901 to 1952

drank? han ore	drenk	983	ME SEE	TROP.	1800	draw	h - Kingan		moun	993 32	om e	GEORGE .
f all homicides	All	0-	5-	10-	15-	20-	25-	35-	45-	55-	65-	75 and over
Males 1901–10 1911–20 1921–30 1931–35 1936–40 1941–45 1946 1947 1948 1949	827	1,231	329	262	447	555	677	914	1,257	1,623	1,818	2,621
	857	934	395	304	596	902	828	894	1,082	1,395	1,715	2,757
	709	683	375	243	449	584	536	658	917	1,259	1,616	2,842
	770	697	370	228	533	739	602	640	921	1,271	1,599	3,358
	968	775	420	297	651	1,121	826	825	1,046	1,475	1,835	3,887
	1,167	897	612	435	935	2,192	1,263	870	1,008	1,323	1,691	3,183
	622	688	328	251	414	565	453	478	582	864	1,213	2,612
	628	664	381	228	398	528	465	465	633	850	1,210	2,786
	562	585	318	179	350	458	398	406	574	844	1,136	2,320
	569	547	299	194	386	509	387	433	583	805	1,084	2,554
1949*	567	541	298	193	386	508	387	431	579	797	1,085	2,556
1950*	562	461	252	153	376	555	423	418	579	807	1,120	2,451
1951*	591	487	259	190	362	608	474	429	591	814	1,137	2,745
1952*	568	473	217	167	415	643	445	436	546	796	1,092	2,450
Females 1901–10 1911–20 1921–30 1931–35 1936–40 1941–45 1946 1947 1948 1949	329 300 283 346 477 499 326 334 306 306	1,059 767 487 505 570 687 494 503 434 387	226 234 182 201 230 322 149 162 153 128	81 98 71 81 137 206 70 63 63 63	103 117 117 142 222 256 83 82 72 81	111 120 127 155 233 274 86 81 76 92	135 127 126 161 235 276 116 109 99 85	198 179 168 194 281 307 152 145 137	307 272 268 297 412 404 225 237 231 212	423 382 397 443 595 552 351 356 347 336	752 728 716 878 1,116 959 661 703 614 617	2,287 2,364 2,516 3,044 3,707 3,064 2,725 2,707 2,341 2,513
1949*	302	378	128	63	79	92	81	126	212	330	612	2,492
1950*	308	338	127	47	80	81	79	125	223	323	606	2,698
1951*	321	350	96	45	88	87	85	126	228	327	648	2,803
1952*	298	330	100	50	77	86	85	120	213	322	604	2,406

Table LXXXV.—Accidents and violence: Proportion of deaths attributed to violent causes per 100 deaths from all causes, by sex and age, 1901 to 1952

CERTAINS AND STA	10070		Males					Females		
	0-	15-	35-	65 and over	All	0-	15-	35-	65 and over	All
1901–10 1911–20 1921–30 1931–35 1936–40 1941–45 1946 1947 1948 1949 1950 1951	3·22 3·74 4·43 5·60 7·30 10·34 7·86 7·65 8·91 9·47 9·20 10·22 10·28	12·88 15·69 15·49 20·29 29·58 46·29 25·39 24·86 24·61 27·04 30·36 34·74 37·65	7·22 7·16 7·06 7·37 8·67 9·46 6·09 6·04 5·87 5·93 5·68 5·97	2·31 2·29 2·37 2·55 2·89 2·85 2·22 2·14 2·13 1·96 1·94 1·85 1·91	5·05 5·69 5·48 6·05 7·30 9·13 5·08 4·89 4·88 4·62 4·56 4·42 4·65	2·85 2·95 3·06 4·11 5·73 8·25 5·91 5·86 7·06 7·02 7·24 7·36 7·67	3·06 2·97 4·02 5·54 9·52 12·26 5·84 5·53 5·56 5·80 6·59 8·21 9·46	2·18 2·26 2·74 3·31 4·82 5·58 3·45 3·55 3·70 3·34 3·44 3·42 3·58	1·54 1·63 1·79 2·25 2·83 2·74 2·27 2·22 2·18 2·01 2·13 2·06 2·11	2·31 2·49 3·04 4·10 4·56 3·00 2·97 3·02 2·72 2·80 2·73 2·84

^{*} According to the 6th Revision of the International Classification. Other years according to the classification in use at the time.

Table LXXXVI.—Motor vehicle accidents: Death rates per million living by sex and age, and Comparative Mortality Indices by sex, 1931 to 1952

AA luss	-80	All	0-	10-	15-	20-	25-	35-	45-	55-	65-	75 and over	C.M.I. (1938 =1.00)
Males 1931–35 1936–40 1941–45 1946 1947 1948 1949	35	208 216 199 153 146 126 140	184 159 198 144 134 135 123	93 86 113 109 75 63 80	204 176 152 161 127 122 147	368 363 227 205 209 173 226	210 209 193 139 139 112 117	133 152 149 109 106 79 103	153 171 160 102 111 97 101	206 257 228 160 147 142 137	363 411 353 241 246 194 229	678 749 556 498 460 400 451	1·12 1·01 0·92 0·73 0·70 0·60 0·67
1949* 1950* 1951* 1952*	0.0	142 151 161 149	126 104 112 105	83 60 88 73	150 177 178 165	232 279 308 301	118 164 174 150	105 106 112 123	101 102 117 105	138 153 160 144	232 242 231 219	454 439 505 403	0·68 0·72 0·77 0·71
Females 1931–35 1936–40 1941–45 1946 1947 1948	88	68 64 56 47 47 43 41	106 84 106 72 71 79 65	34 30 42 30 26 31 32	49 49 42 36 37 25 32	50 48 40 27 23 16 30	31 29 29 21 17 14 10	29 27 26 20 22 19 16	49 45 37 27 33 21 22	95 85 61 56 54 49 44	181 173 107 100 100 101 95	267 279 172 185 177 157 151	1·17 1·02 0·86 0·70 0·69 0·64 0·60
1949* 1950* 1951* 1952*		41 46 49 42	66 64 58 52	32 25 22 21	32 40 47 34	30 30 37 31	10 17 19 19	16 19 23 18	22 35 35 28	44 48 54 43	95 84 101 94	151 200 198 168	0·61 0·67 0·71 0·62

^{*} According to the 6th Revision of the International Classification (Nos. E810-835). Other years according to the classification in use at the time.

Table LXXXVII.—Motor vehicle accidents (E810-835): Death rates per million living by sex and age in standard regions and population density aggregates, 1952

(based on deaths assigned according to area of normal residence)

The second second second			Males		2010 D		1	Female	es	
134.0 27 15601 605 1002 - 1970 - 19 19 18 180	0-	15-	45-	65 and over	All	0-	15-	45-	65 and over	All
ENGLAND AND WALES	96	166	121	276	149	43	23	35	120	42
Conurbations (excluding Greater London)	122	127	112	287	136	47	21	45	130	45
Greater London	58	116	80	324	112	26	21	36	142	41
Areas outside conurbations	99	193	136	263	164	46	24	32	112	42
Urban areas with populations of 100,000 and over	100	124	103	222	122	56	18	39	127	45
Urban areas with populations of 50,000 and under 100,000	101	159	103	297	145	31	7	20	104	28
Urban areas with populations under 50,000	95	168	127	271	151	47	21	23	116	40
Rural areas	101	272	183	265	212	44	38	43	99	49
Regions: Northern	120	180	147	243	163	66	17	39	73	40
East and West Ridings	108	145	114	247	138	37	28	35	131	44
North Western	124	157	137	273	155	51	18	38	128	44
North Midland	114	168	146	314	163	55	18	21	111	38
Midland	107	203	128	361	175	43	24	34	149	44
Eastern	72	195	137	220	155	41	37	30	103	45
South East (excluding Greater London)	59	186	124	241	147	48	25	31	101	43
Southern	75	197	118	290	161	34	31	32	91	40
South Western	115	198	133	221	166	40	15	45	124	44
Wales	112	164	109	246	146	45	24	45	121	46

Table LXXXVIII.—Deaths of pedestrians, pedal cyclists, motor cyclists, motor vehicle occupants and others in motor vehicle traffic accidents, motor vehicle non-traffic accidents and other road vehicle accidents, by sex, 1936-40, 1941-45 and 1946 to 1952

86 17 86 17 86 18 86 18	1936 (Anravera	ual	1941 (Ann avera	ual	194	16	194	17	194	48	194	19	195	50	195	51	195	52
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Pedestrians: Motor vehicle traffic accidents Motor vehicle non-traffic accidents Other road vehicle accidents	2,148	1,010	2,073	898	1,404	714		712	1,210	720{	1,214	674	1,140 32	726 6	1,302	725 10	1, 0 99	663
dents Pedal cyclists: Motor vehicle traffic accidents Motor vehicle non-traffic accidents	194	131	557	70	481	97	417	50 81	461	86	496	78	475	80	473	80	443	74
Other road vehicle accidents	249	44	230	51	159	30	160	25	158	30	157	30	168	31	160	18	125	31
Motor cyclists: Motor vehicle traffic accidents Motor vehicle non-traffic accidents	1,018	77	651	27	681	46	696	62	520	26{	733	56	979 7	79 —	1,019	94	1,002	78 1
Motor vehicle occupants and others: Motor vehicle traffic accidents Motor vehicle non-traffic accidents Other road vehicle accidents	631	191	762	167	592	178	583	181	474	141 {	498 50 32	118 1 7	505 48 50	150 2 13	499 57 19	200 5 7	469 70 31	143 3 14

Table LXXXIX.—Deaths caused by road accidents involving various types of vehicles, 1942 to 1952

1938 Int. List No.	Type of accident	1942	1943	1944	1945	1946	1947	1948	1949	1950*	1951*	1952*
170c (part)	Motor vehicle accident causing death of pedestrian by: Motor goods vehicle { M.	950 439 587 225 622 212 31 18	792 386 466 187 425 170 35 13	956 481 437 194 462 222 50 14	703 355 287 157 446 249 18 12	517 251 248 150 619 304 20 9	507 265 239 136 573 309 20 2	503 307 228 134 460 273 19 6	496 267 190 90 535 317 6 6	414 258 146 87 562 372 18 9	446 244 160 93 672 377 24 11	420 222 140 78 524 347 15 16
170c (part)	Motor vehicle non-collision accident causing death of occupant or rider of: Motor cycle M. F. Motor goods vehicle M. F. Motor bus, trolley bus M. F. Motor car, coach M. F. Other road motor vehicles M. F.	244 14 308 24 67 58 69 27 5	155 	129 4 289 15 43 47 49 14 12 7	145 8 224 23 56 59 101 37 8 3	287 19 187 11 43 32 110 55 9	253 24 131 12 38 38 133 57 7 2	210 12 124 111 43 35 60 25 8 5	261 24 140 10 43 23 82 23 4	164 14 95 7 46 23 52 19	261 30 91 13 51 25 60 36 3 1	280 25 122 7 39 30 85 30
170a	Collision between motor $\{M, vehicle and train \}$	6	21 4	11 1	22	9	19 2	19 2	7	13 2	8 2	10
170b, 170c (part)	Other collision involving a motor vehicle causing death of: Pedal cyclist by:— Motor goods vehicle { M. F. Motor bus, trolley bus } M. F. Motor car, coach, motor { M. cycle { F. Other road motor } M. vehicle { F. M. F. Motor cyclist { M. F. M. { F. Motor cyclist { M. F. M. { F. M.	280 68 86 20 195 41 6 1 514 19 271 74	238 75 83 11 120 35 7 1 273 13 201 27	324 105 69 19 149 43 20 4 307 8 258 44	229 56 69 17 167 31 10 3 286 17 249 65	200 42 56 12 220 42 5 1 391 27 216 78	187 30 61 9 167 41 2 1 443 38 242 70	192 43 78 11 189 31 2 1 309 13 209 64	197 43 72 6 217 29 4 484 33 219 56	214 43 47 7 208 30 6 815 65 295 97	182 33 57 4 228 42 6 1 758 64 282 123	170 32 56 8 212 34 5 722 53 204 73
170c (part)	Ill-defined motor vehicle accident causing death of: Other or unspecified per- { M. son { F.		7 House	9	17	21	13	12	8 —	4 2	4	9 2
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4,241 1,240	3,257 994	3,574 1,222	3,037 1,094	3,158 1,035	3,035 1,036	2,665 973	2,965 927	3,099 1,035	3,293 1,099	3,013

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Table LXXXIX.—continued.

1938 Int. List No.	Type of accident	1942	1943	1944	1945	1946	1947	1948	1949	1950*	1951*	1952*
171	Road transport accidents in- volving only non-motor vehicles, causing death of:—	AND S			0		11.5			rional market		
	Pedestrian by: Tramcar {M. F. Pedal cycle {M. F. Other non-motor vehicle {M. F. Pedal cyclist by:—	67 26 67 28 45 11	70 32 68 39 40 11	51 24 57 26 48 7	33 21 34 30 28 13	19 22 41 14 22 6	17 12 45 33 15 5	26 11 54 31 9 3	9 13 45 36 13 6	18 8 47 39 11 4	8 10 40 29 11 4	5 4 56 23 12 4
	No other vehicle \ M. F. Occupant of other non-\ M. Occupant of other non-\ M. Occupant of other non-\ M.	222 53 — 21 4 14 3 41	242 63 2 15 7 13 13 13 37	208 37 1 	168 39 1 14 8 9 7 33	141 27 2 1 16 2 10 5 14	143 24 3 	140 24 — 1 18 5 6 3 14	149 27 2 	$ \begin{cases} 168 \\ 31 \end{cases} $ $ \frac{3}{47} $		125 31 3 1 28
		477 129	487 168	428 114	319 122	265 80	265 79	267 80	256 88	13 294 95	238 68	229 76
170 and 171	Total pedestrians \{ M. \} F. Total pedal cyclists \{ M. \} F. Total motor cyclists \{ M. \} F. Total occupants of motor \{ M. \} vehicles \{ K. \} F.	2,369 959 810 187 758 33 717 180 64	1,896 838 707 192 428 13 658 102 55 17	2,061 968 792 216 437 12 651 125 52	1,549 837 657 155 431 25 647 188 54	1,486 756 640 127 681 46 564 176 30	1,416 762 577 106 696 62 558 180 40	1,299 765 619 116 520 26 459 140 22	1,294 735 661 106 745 57 488 112 23	1,216 777 643 111 979 79 555 163	768 633 98 1,019 94 518	1,172 694 568 105 1,002 78 500

^{*} For years 1950 to 1952 deaths from motor vehicle accidents occurring elsewhere than on a public highway are excluded from this Table. For those years the deaths shown have been estimated from available material based on the 6th Revision of the International Classification.

Table XC.—Air transport accidents: Death rates per million living by sex and age, 1931 to 1952

The same of the sa	All	0-	10-	15-	20-	25-	35-	45-	55-	65-	75 and over
Males								145	1700 LEGS 240257.81	140 m	
1931–35	2·84 8·47 0·95 0·73 6.96 9·91 8·99 10·86 12·97 13·78	0·07 0·21 — 0·31 0·30 0·59 — 0·28	0·23 0·26 — — 0·71 — — 3·50	1·88 10·92 1·02 1·32 3·40 6·17 6·27 12·63 8·25 29·30	45·47 2·15 0·62 37·01 38·12 34·02 37·01 50·11	7·42 15·95 2·78 2·14 19·30 29·88 26·09 31·05 47·65 38·00	1·88 5·73 1·06 1·20 3·59 6·82 8·55 8·87 7·91 8·36	0·17 1·52 0·49 0·39 1·15 4·85 3·64 7·09 2·78 1·36	0·22 0·51 0·10 - 1·49 1·48 1·48 3·43 1·97 0·98	0·40 0·17 0·16 — 0·73 — 1·45 1·46	1·02 - - - - - - 1·61
Females		88/\$-1 192			1 051		dalas,	Majori salah	en e		
1931–35	0·18 0·27 0·15 0·05 0·40 0·85 0·84 0·44 1·01 0·88	0·21 - 0·32 0·61 - 0·29	- - - 0·73 2·16 - -	0·13 0·59 0·13 — 0·69 1·41 2·13 — 3·65	0·34 0·37 0·70 0·64 2·61 0·66 1·33 3·36 4·08	0·47 0·51 0·30 0·30 0·30 1·21 — 1·55 2·17 1·24	0·33 0·51 0·18 0·29 1·46 0·88 0·29 0·89	0·08 1·01 1·00 1·97 0·65 0·64 0·95	0·09 0·08 - - 0·40 - 1·18 0·39	0·16 - 0·57 - 0·53 -	

Table XCI.—Accidental poisoning: Numbers of deaths according to the poisoning agent, and percentage distribution according to place of occurrence of the accident, 1949 to 1952

		Number	of deaths				Percent	age distrib	ution	
Poisoning agent	Home	Mine or quarry	Industrial places	Other	Total	Home	Mine or quarry	Industrial places	Other	Total
Barbiturates 1949 1950 1951 1952	42 71 59 79			36 56 58 61	78 127 117 140	54 56 50 56			46 44 50 44	100 100 100 100
Aspirin	13 17 25 22		± ± ±	14 14 12 28	27 31 37 50	48 55 68 44			52 45 32 56	100 100 100 100
Other drugs	22 20 36 32		<u></u>	14 7 7 12	36 27 44 44	61 74 82 73			39 26 16 27	100 100 100 100
Corrosives \ \begin{pmatrix} 1949 \\ 1950 \\ 1951 \\ 1952 \\ 1952 \end{pmatrix}	6 14 10 7		<u>-</u>	8 10 6 6	14 24 17 13	43 58 59 54		- 6 -	57 42 35 46	100 100 100 100
Other solids and 1949 1950 liquids 1951 1952	19 24 24 25	100	1 2 2 1	20 20 23 22	40 46 49 48	47 52 49 52		3 4 4 2	50 44 47 46	100 100 100 100
Utility gas \ \begin{pmatrix} 1949 \\ 1950 \\ 1951 \\ 1952 \end{pmatrix}	385 389 459 461	1 =	14 4 8 10	23 13 48 27	423 406 515 498	91 96 89 93	0 -	3 1 2 2	6 3 9 5	100 100 100 100
Other carbon 1949 monoxide 1950 1951 1952	7 6 11 20	1 -	9 24 11 8	6 6 8 11	23 37 30 39	31 16 37 51	4 3 -	39 65 37 21	26 16 26 28	100 100 100 100
Other gases \$\begin{aligned} 1949 \\ 1950 \\ 1951 \\ 1952 \\ 1952 \\ 1952 \\ 1952 \\ 1953 \\ 1953 \\ 1953 \\ 1953 \\ 1953 \\ 1953 \\ 1954 \\ 1955 \\ 1955 \\ 1955 \\ 1955 \\ 1955 \\ 1955 \\ 1955 \\ 1956 \\ 1957	4 6 3 1	3 8 1	7 6 4 6	7 3 4	21 20 11 11	20 30 27 9	14 40 9	33 30 37 55	33 	100 100 100 100

Table XCII.—Accidental falls: Death rates per million living by sex and age, and Comparative Mortality Indices by sex, 1901-45 and 1946 to 1952

ording to the	All	0-	10-	15-	20-	25-	35-	45-	55-	65-	75 and over	C.M.I (1938 =1.00
Males	0824				PERCY.	2012		320000				
1901–10	107	45 38	25	23	24 36	39 56	69 93	119 155	209 254	420 454	1,253	1.06
1921–30	. 85	25	18	31	31	37	56	93	161	352	1,373 1,306	1.29
1931–35 1936–40	100	25	18 24	31 34	33	37 51	58	79 95	146	338	1,609	0·92 1·05
1941–45	. 109	35	26	40	30	41	58	87	157	337	1,448	0.93
1946 1947	07	27	21 26	25	26 42	30 36	43 50	57	107 108	245 254	1,203 1,352	0.73
1948 1949	70	27 20	22	22 28	27	37	41	49 57	85	211	1,122	0.66
 	. /6	20	10	20	31	33	38	31	68	185	1,162	0.63
1949*	. 79	25	18	27	28	32	35	55	71	191	1,174	0.66
1950* 1951*	01	14	18	19	25	29	34 40	50 51	71 85	183 241	1,139	0.61
1952*	70	16	17	23	30	30	30	47	78	221	1,169	0.64
1400 d 100 d				1200	1				0.5	200	756	
Females									- 95	1200	1-1-	
901–10 911–20	10	27 20	6	5	5	10 8	26 20	64 50	132 108	389 356	1,657	0.88
921–30	73	13	4	4	4	5	10	31	85	318	1,845	0.75
931–35 936–40	100	14 18	5	3 4	3 5	6	8	30 34	92 123	388 476	2,283 2,714	0.90
941–45	110	17	8 4	5 3	6 5	6	11	26	81	346	2,135	0.85
946 947	111	15 11	7	9	4	6 4	5	11 15	59 58	260 286	2,037 1,947	0.76
948 949	105	11 10	4	4 3	4 2	3 2	4	18 13	51 50	231	1,726	0.66
949	103	10	0	3			4	13	50	232	1,840	0.69
949*		12	6	4	1	2	5	15	51	230	1,822	0.69
950* 951*	113	8 9	2	2 2 2	1 5	2 3	5	14	45	230	1,994	0.73
952*	105	9	2	2	5	3 2	3 5	12 11	46	240 218	2,034 1,743	0.75

^{*} According to the 6th Revision of the International Classification (Nos. E900–904). Other years according to the classification in use at the time.

Table XCIII.—Accidental falls (E900-904): Annual average of deaths and percentage distribution by place of occurrence, 1949-52*

		Home	Farm, mine or industrial premises	Place for recreation or sport	Other	Total
From one level to another \cdots $\begin{cases} De \\ Pe \end{cases}$	eaths er cent total	1,236	299	13	247	1,795
	37732	68	17	1	14	100
On the same level $\dots \$ Pe	eaths er cent	1,224	21	6	330	1,581
(of	total	78	1	0	21	100
	eaths er cent	514	7	1	281	803
	total	64	1	0	35	100

^{*} Excluding non-civilians for 1949 only

Table XCIV.—Accidental falls (E900-904): Death rates per million living by sex and age in conurbations and population density aggregates, 1952

200 200 394 465 0 72 200 374 387 480 0 71 210 378 468 388 0 76 386 234 258 0 76	154 123 138 138	All	0-	5-	15-	25-	35-	45-	55-	65-	75 and over
ENGLAND AND WALES	{M. F.	79 105	22 15	13	26 4	30 2	30 5	47 11	78 44	221 218	1,169 1,743
Conurbations: Tyneside	${M. \brace F.}$	110 317	<u>-</u>	1/2	60	49	17 16	107 34	256 64	231 576	1,500 7,467
West Yorkshire	${M. \brace F.}$	111 253	15 47	18 9	72	43	24 8	50 22	36 45	315 207	2,000 5,324
South East Lancashire	${ M. \brace F.}$	73 66	40	18 6	24 7	41 6	27 5	36 16	137 45	230 313	815 766
Merseyside	${ M. \brace F.}$	104 363	16 81	<u>26</u>	49 10	126	<u>21</u>	118 21	119 26	297 196	1,133 9,538
West Midlands	${ \begin{cases} M. \\ F. \end{cases} }$	71 134	10 11	<i>17</i>	24 —	<i>17</i>	23 6	68 19	72 50	254 321	1,240 2,950
Greater London	${M. \brace F.}$	83 41	31 13	9	23 2	28 —	33 4	47 6	69 44	238 193	1,456
Areas outside the conurbations: Urban areas with populations of 100,000 and over	{M. F.	83 84	28 4	<i>17</i>	35 5	31 2	33	48 7	98 64	203 183	1,253 1,437
Urban areas with populations of 50,000 and under 100,000	$\begin{cases} M. \\ F. \end{cases}$	84 98	15	8 9	30	21 —	29 —	49 12	45 40	236 174	1,388 1,56
Urban areas with populations under 50,000	${M. \brace F.}$	80 143	21 22	16 6	22 3	31 5	33	41 12	73 43	219 243	1,088
Rural areas	$\left\{ \begin{matrix} M. \\ F. \end{matrix} \right.$	63 52	17 9	9 2	17 6	17 4	29 10	34	55 30	183 177	85 61

 $[\]uparrow$ C.M.I's, are based on civilian deaths and civilian populations for the years 1940–1949 inclusive.

Table XCV.—Suicide: Death rates per million living by sex and age, and Comparative Mortality Indices by sex, 1901-45 and 1946 to 1952

EDS MANAGES	All	0-	10-	15-	20-	25-	35-	45-	55-	65-	75 and over	C.M.I.* (1938 =1.00)
Males 1901–10 1911–20 1921–30 1931–35 1936–40 1941–45 1946 1947 1948 1949 1950 1951	157 130 166 196 172 126 138 136 144 144 136 135 132	1 - 0 - - - - - -	4 3 2 2 2 3 5 3 2 1 1 6 1	36 32 31 40 32 43 31 35 29 32 30 24 34	91 69 78 96 89 72 49 59 73 60 60 53 55	152 122 111 140 118 100 94 94 86 80 70 78 78	252 196 211 210 177 128 154 123 134 134 122 120	397 278 346 379 284 185 200 209 219 236 222 213 198	523 389 487 542 462 271 300 314 338 334 323 303 320	508 405 513 533 477 347 391 382 469 422 416 410 389	382 350 438 483 466 382 465 480 388 490 421 477 413	1·17 0·90 1·04 1·14 0·95 0·66 0·72 0·71 0·76 0·76 0·70 0·69
Females 1901-10 1911-20 1921-30 1931-35 1936-40 1941-45 1946 1947 1948 1949 1950 1951 1952	49 47 63 80 79 62 74 76 78 75 70 72 68	अस्ति होते स्थानका इ	3 2 1 0 1 1 1 - 1	34 30 25 23 14 9 15 10 11 15 10 9 11	45 41 43 49 38 22 26 28 20 26 23 20 12	56 50 57 77 65 52 53 51 50 45 34 38 35	81 74 87 108 99 77 87 80 80 77 75 66 66	109 100 135 154 155 108 135 134 141 127 124 135 118	108 102 143 166 169 128 157 160 183 165 157 160 154	88 81 108 134 142 117 146 166 173 165 153 167 164	49 52 63 84 89 73 92 114 98 138 115 105 97	0·75 0·69 0·84 1·01 0·98 0·74 0·89 0·90 0·93 0·82 0·84 0·79

^{*} C.M.I's. are based on civilian deaths and civilian populations for the years 1940-1949 inclusive.

Table XCVI.—Proportion of deaths per 1,000 violent deaths according to nature of injury, 1952

of square	actions (may	Fracture of skull	Fracture of spine or trunk	Fracture of limb	Head in- jury other than fracture	Internal injury	Laceration and open wounds	Poisoning	Others	Total
	ſM.	603	66	42	115	129	10	8 <u>5</u>	35	1,000
Motor vehicle accidents .	" { F.	537	86	70	144	101	18		44	1,000
Other transport accidents .	ſΜ.	355	65	38	77	162	75	2	226	1,000
Other transport accidents .	" { F.	457	43	43	93	136	80		148	1,000
Palla a E	∫ M.	324	121	353	100	37	10		55	1,000
Falls	" \ F.	89	69	699	75	12	6		50	1,000
Called an oalf inflicted in items	∫ M.	24	6	1	39	13	86	528	303	1,000
Suicide or self-inflicted injury .	" \ F.	10	7	1	4	3	26	735	214	1,000
Others	∫ M.	93	54	12	36	84	31	171	519	1,000
Others	" \ F.	12	3	17	12	11	14	281	650	1,000

MISCELLANEOUS

Infectious Diseases-deaths occurring a long period after onset

The rules for classification, embodied in the International Statistical Classification of Diseases, Injuries and Causes of Death, 1948, state that "when an acute infective disease classified in categories 040-043, 050, 055, 056, 058, 084-087, 100-108 is certified as the underlying cause of some other condition and the interval between its onset and death is stated to be one year or more, it is recommended that such deaths should be appropriately identified in tabulation". This practice has been followed in England and Wales, and the deaths in question in 1952 are separately tabulated below. Six infectious diseases were involved, Typhoid (4 deaths), Scarlet Fever (15 deaths), Diphtheria (9 deaths), Whooping Cough (3 deaths), Smallpox (1 death), and Brill's Disease (1 death).

death	1-4	5–9	10–19	20-29	30-39	40 and ove
65 and over		7 8 8	Тур	hoid fever (040)	4
65 and over						
			Sca	rlet fever (0	50)	
5–14	1 1	_	-	-81	1-1	_
15-44	3 -	2	S 49 49	1 1 8		-
45–64 65 and over	E	\equiv	_			2 5
15-44 45-64 65 and over	E	3 <u>1</u> 3	1 1 -	iphtheria (05	3 -	- 1 1
			Who	oping cough	(056)	
15–44 45–64		表 一 点	= 1			
45–64	_		_ s	mallpox (08	4)	
43 01	-	- La 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Reil	l's disease (102)	
45-64	1	_		— (_

Details of age, sex, other conditions on death certificate, and interval (in years) since onset of the infectious disease, in that order, are:—

Typhoid fever

71 71	M.	Stricture of œsophagus Congestive heart failure; endocarditis	(when a young woman)
72		Acute intestinal obstruction	(old typhoid fever per- foration)
80	F.	Myocarditis; mitral incompetence	60
		210	and the same of th

Scarlet fever Uræmia; chronic parenchymatous nephritis; hyperpiesis Congestive cardiac failure 19 F. Chronic glomerulo nephritis 22 F. Uræmia; chronic nephritis 27 Acute cardiac failure; stenosis of mitral F. valve with general anasarca Uræmia; nephritis and multiple arthritis 34 39 Congestive cardiac failure; mitral stenosis: mild chronic bronchitis 47 Mitral stenosis; aortic stenosis 20 52 Aortic stenosis (in childhood) 63 Chronic myocarditis; arteriosclerosis M. (childhood) Uræmia; chronic glomerulo-tubular (in adolescence) nephritis; hypochromic anæmia 70 F. Mitral stenosis (as a child) 73 Heart disease; arteriosclerosis; carditis (at childhood) F. Mitral stenosis and regurgitation 70 Coronary thrombosis; rheumatic heart 66 disease Diphtheria Endocarditis 6 Congestive heart failure; mitral stenosis 19 Complete heart block; myocarditis 20 37 F. Acute dilatation of heart; valvular heart (in childhood) disease Acute heart failure; hypertrophy left (as child) ventricle 42 Aortic and mitral valvular disease Congestive heart failure; chronic valvular (years ago) disease of heart 55 F. Cardiac failure; chronic nephritis 10 65 F. Stokes-Adams attack, heart block; myo-(from childhood) carditis Whooping cough 15 M. Congestive heart failure; hypochromic anæmia; malnutrition; post- pertussis encephalitis with resultant idiocy Œdema of larvnx Myocardial degeneration; capillary bronchitis and emphysema Smallpox Valvular disease of heart; ascites

Brill's disease

63	F.	Brill's	syndrome			

Deaths following vaccination or other prophylactic inoculation

This section includes deaths classified to E940-E942, vaccinia, post-vaccinal encephalitis and other complications of smallpox vaccination, and to E943, E944, post-immunization jaundice and hepatitis and other complications of prophylactic inoculation. There were no deaths with vaccination mentioned, but which were classified to other conditions.

In 1952 four deaths were assigned to complications of vaccination against smallpox, viz:—

- 1. Female, aged 3 months, certified as toxæmia due to broncho-pneumonia during generalised vaccinia.
- 2. Male, aged 8 months, certified as toxemia following general vaccinia.
- 3. Male, aged 26 years, certified as encephalomyelitis following anti-smallpox vaccination.
- 4. Female, aged 6 months, certified as due to vaccinia. Subsequent enquiry showed that this infant had not herself been vaccinated, but was an eczematous child whose mother had been vaccinated.

In addition there was one death assigned to other complications of prophylactic inoculation:—

1. Female, aged 2 years, certified as septicæmia due to an abscess of the shoulder following an injection for the prevention of whooping cough.

Fatal therapeutic misadventures

The classification of causes of death is based on selecting 'the disease or injury which started the train of morbid events which led directly to death'. If an operation or other treatment is said to have caused death, the assignment will normally be to the disease for which the treatment was given, and primary tabulations will be based on this, therapeutic misadventures (see Nos. E950-959 in the International Statistical Classification) being shown in secondary tabulations. Sometimes the underlying disease is not known, in which case the death has to be primarily classed to 'Therapeutic Misadventure'. Experience shows that the range of misadventures is a wide one covering, for example, cases in which

- (a) treatment was grossly wrong, as attested by Coroners' reports, and including
 - (I) unintentional overdose,
 - (II) wrong drug given in error,
 - (III) mention of negligence or carelessness,
 - (IV) anæsthetic explosion;
- (b) treatment failed because of technical misadventure, as for example air embolism through an accidental perforation;
- (c) the patient reacted in an untoward way, as by drug sensitivity or anaphylactic shock.

It was felt that some distinction should be made between these types of misadventure, and various experiments in coding have been made, the object being to give a realistic picture while avoiding the intrusion of the coders' personal judgment on the cases.

The records of 164 cases were examined, but 15 were rejected either because there had not, in fact, been a therapeutic misadventure, or because compared with the other items recorded the misadventure had played a negligible part in causing death. From the consideration of these 149 cases a tentative classification was made under three headings, and new coding rules devised as follows:—

- (a) Deaths due to error, negligence, accidents etc. should be coded to 'Violence' (i.e. poisoning etc.) as the primary code and secondarily to therapeutic misadventure.
- (b) Deaths following operations and anæsthesia should be coded simply to the disease for which the operation was performed.
- (c) Deaths due to technical mishaps or adverse reactions from injections, insufflations, transfusions, drugs, electro-convulsive therapy, radiation or diathermy should be coded primarily to the disease for which treatment was given and secondarily to therapeutic misadventure.

These rules will operate from mid-1953. Meanwhile, the following analysis has been made of the 149 cases mentioned, based on a distinction between technical accidents intrinsic in the treatment (48 cases or 32 per cent) and adverse reactions on the part of patients (101 cases or 68 per cent). Of the 149 deaths, 84 were males and 65 females, their age distribution being as follows:—

	Under 1	1-	5-	15-	25-	35-	45-	55-	65-	75-	85 & over
Males Females	4 1	10	6 3	1 6	14 9	12 10	10 9	6 13	15 9	5 2	1

The places of occurrence of the deaths were:—

General hospitals	69 males;	52 females
Nursing homes	- ,,	- ,,
Mental hospitals	11 ,,	4 ,,
Elsewhere	4	9

Of 149 deaths, 81 per cent occurred in general hospitals, and 10 per cent in mental hospitals. Air embolism was responsible for 12 out of 48 deaths in which a technical procedure was involved, and adverse reaction to drugs for 24 of the 101 deaths connected with reaction to therapy. Among the latter were five adverse reactions to insulin and four to penicillin. A summary table is appended which shows the condition presumably being treated, which in one or two cases differs from the assigned cause of death, the patient's age (females in italics), and the nature of the misadventure which occurred.

Table XCVII.—Fatal Therapeutic Misadventures: an analysis of 149 deaths in 1952 according to the type of misadventure and the assumed condition being treated, with distinction of sex and age

	一世紀日本 医祖氏性后性		Misadve	nture of		
Assumed condition for which treated (and 1948 I.S.C. No.)	Therapeutic procedure	Ages (Females in italics)	No. of Deaths	Reaction to therapy	Ages (Females in italics)	No. of Deaths
Tuberculosis (002)	Air embolism Puncture of liver during pneumoperitoneum Pleural puncture during operation for inducing artificial pneumothorax During operation for section of pleural adhesions Resulting from treatment	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1 1 1	Operative shock and cardiac failure during thoracoplasty Cerebral and pulmonary thrombosis during pneumonectomy Streptomycin sensitivity Panhæmocytopenia due to thiosemicarbazone	27 44 33 44	1 1 1 1
General Paralysis of Insane (025)				Reflex inhibition of heart due to laryngeal spasm whilst under anæsthetic	57	1
Malignant Neoplasms (140–199)	Air embolism Perforation of vein during dissection of neck glands Empyema Perforation of esophagus during the passage of Souttar's tube Cardiac paralysis Transfusion of formaldehyde in saline Bronchoscope in air passage Cerebral anamia Ligation of carotid artery during operation for removal of carotid body tumour	53 69 44 68 70	1 1 1 1 1	Radium necrosis of bladder Cocaine intolerance in catheterisation Cerebral anoxia following xylocaine for ventriculography Cerebral subdural and medullary failure following anæsthesia for mastectomy Shock Following burst abdominal wound Due to blood transfusion Following operation for removal of tumour from brain Uncontrolled hæmorrhage Rupture of tumour in laparotomy Following exploratory examination of patient with pernicious anæmia	40 66 70 45 58	2 1 1 1 1 1 1 1 1 1
Benign Neoplasms (210–229)	Blast injury to lungs Explosion in anæsthetic machine during hysterectomy	46	1	Anæsthesia Respiratory failure due to anæsthetic for ovariectomy	72	1
Asthma (241)	Heart failure Following an intra-venous injection—accidental striking of vein	59	1	Anaphylactic shock Following injection of fish desensitisation material Caused by penicillin injections Coronary thrombosis Accelerated by bronchoscopy	4 31 52	1 1
Toxic Diffuse Goitre (252.0)				Agranulocytosis Following treatment with methyl thiouracil Cerebral damage and cardiac arrest during tracheotomy	70 38	1 1

Table XCVII.—continued

			Misadven	ture of		
Assumed condition for which treated (and 1948 I.S.C. No.)	Therapeutic procedure	Ages (Females in italics)	No. of Deaths	Reaction to therapy	Ages (Females in italics)	No. of Death
Diabetes Mellitus (260)	Copalita of instruction of the control of the contr	# A		Adverse reaction Insulin treatment Hypoglycæmia Resulting from a self-administered overdose of insulin	68 61	1
Gout (288)	desiried south wearoused with positional strains and the second s			Sub-acute liver necrosis Resulting from administration of atropin in course of treatment	42	1
Psychoses and Psychoneuroses (300–318) Meningitis (340.3)	Intra-cerebral hæmorrhage Cerebral vessel ruptured during pre-frontal leucotomy Embolism Operation of cingulotomy and division of fornix	58 31	1	Pulmonary œdema Resulting from insulin treatment Irreversible coma and respiratory failure Insulin treatment Cardiac and respiratory failure and anoxia Following electro-convulsive treatment Asphyxia Due to inhalation of stomach contents following electro-convulsive therapy Fracture Sustained during electro-convulsive therapy and resulting in broncho-pneumonia Adverse reaction Insulin treatment Coronary thrombosis and ventricular hypertrophy Following electro-convulsive therapy Anæsthetic Administered for lumbar puncture	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2 2 3 1 1 2
Diseases of Central Nervous System (350-357)	Januari and the state of the st	to temperal temperatury years	Describe	Aplastic anæmia Due to mesantoin therapy Massive cerebral infarction Following cerebral angiography	33 39 52	1 1
Chronic Rheumatic Heart Disease (410)	Hæmorrhage Clamp on auricle slipped during operation for mitral stenosis	29	1			
Arteriosclerotic and Degenerative Heart Disease (420–422)	Infection Injection of morphia given in unsterile manner	48	1	The same of the sa		

Table XCVII.—continued.

TATES.			Misadver	nture of		
Assumed condition for which treated (and 1948 I.S.C. No.)	Therapeutic procedure	Ages (Females in italics)	No. of Deaths	Reaction to therapy	Ages (Females in italics)	No. of Deaths
Other Diseases of Heart (434)	Hæmopericardium Needle penetration of coronary vein in pericardial paracentesis	42	1	Militables con (s. L. Staner, Consession of	33	
Diseases of Veins (460–468)	Circulatory failure and toxemia Infected blood used in blood transfusion Pulmonary embolism Due to femoral vein thrombosis following operation	26 50	1	Assemble to branche-parametra. Assemble resembles of the properties as a second of the control of the properties of the	187	
Acute Upper Respiratory Infections (470-475)	Instruction of view during observed of special and special of special during are specially of formation and special of the	.53		Obstruction of larynx Due to aspirin sensitivity Anuria Due to nephron lesions caused by sulphanilanide crystals	5	1
Pneumonia (493)	Air embolism Following injection of penicillin	5	1	Arrests should be no passing the same and a set to	7等	13
Other Diseases of Respiratory System (510-527)	Poisoning Consequent upon a rectal anæsthesia. In error industrial spirit was mixed with pentothal Transfusion Incompatible blood used during operation Air embolism Following operation for chronic abscess Following operation for division of intra-thoracic adhesions Collapse of lung Accidental inhalation of blood clot during operation, the result of the slipping of mouth gag	4 4 47 37	1 1 1 1 1	Asphyxia and shock Due to inhalation of blood and intestinal contents following operation Mediastinal emphysema During resuscitation after operation Heart failure Due to anaphylactic shock, exploratory examination Hæmorrhage Accelerated by anæsthetic prior to operation Anoxæmia and bronchial spasm Resulting from abnormal sensitivity to penicillin	$ \begin{cases} 5 \\ 38 \\ 7 \\ 8 \end{cases} $ $ \begin{cases} 32 \\ 73 \\ 10 \end{cases} $ $ 3 $	3 1 2 1 1
Disorders of Teeth (533)	included procedure	Ages (Fernaly)	Ma,	Asphyxia Caused by inhalation of blood after extraction Circulatory and respiratory collapse During recovery from anæsthesia	32 44	1
Diseases of Œsophagus (539)	Emphysema thoracis Perforation of esophagus during esophagoscopy	70	1			

Table XCVII.—continued.

Osteonychite			Misadve	nture of		
Assumed condition for which treated (and 1948 I.S.C. No.)	Therapeutic procedure	Ages (Females in italics)	No. of Deaths	Reaction to therapy	Ages (Females in italics)	No. of Deaths
Ulcer of Stomach and Duodenum (540 and 541)	Escape of pancreatic fluid during gastrectomy Obstruction of tracheal tube during anæsthesia Pulmonary	63 53	1 1	The state of the s		
	Edema, due to blood transfusion Embulos, resulting from operation	80 30	1	road antique fold transaction for classes on		
Appendicitis (550 and 551)	Air embolism From blood transfusion	75	1	Pneumonia Accelerated by shock of appendicectomy Heart failure and ether convulsions Resulting from anæsthesia Asthma and Emphysema Resulting from operation		1 3 1
Hernia (560 and 561)	Acute tissue emphysema Oxygen cylinder had been connected to tracheal tube, resulting in lung rupture	76	1	Cardiac failure and respiratory arrest Precipitated by administration of anæsthetic	\begin{cases} 1 & 31 & 54 & 67 & 79 & 9 & mths & 56 & \end{cases}	7
Diseases of Intestines and Peritoneum (570–578)	And to read taken meaning from over-control of			Collapse of lung Due to inhalation of vomit whilst under anæsthetic Shock Following operation	13 59	1
Diseases of Liver, Gallbladder and Pancreas (580-587)	Peritonitis Due to traumatic perforation of the stomach	63	1	Shock Due to acute pancreatitis and accelerated by administration of anæsthetic Disruption of wound	43	1
	polinauată sanjojur		Desire	Following cholecystectomy Shock and anæsthetic narcosis Inhalation of vomit Ventricular failure following laparotomy	72 63 39 68	1 1 1 1
Nephritis, with Œdema (591)		986	5858*	Chronic parenchymatous nephritis Due to penicillin allergy	45	1
Diseases of Urethra (609)	Pulmonary air embolism Operation for repair of prolapsed urethra	63	1	Toxic effects Amethocaine, administered preparatory to operation, entered circulation	81	1

The second second	Appleanment of somewhere		Misadve	nture of		
Assumed condition for which treated (and 1948 I.S.C. No.)	Therapeutic procedure	Ages (Females in italics)	No. of Deaths	Reaction to therapy	Ages (Females in italics)	No. of Deaths
Diseases of Male Genital Organs (610-617)	Pulmonary embolus Due to operation	65	1	Convulsions Due to xylocaine intolerance—injected prior to catheterisation After administration of anæsthetic Cardiac failure—vagal inhibition Due to sensitivity to ether Due to anæsthetic during operation Collapse of lungs	87 1 1 { under 1 mth. 35	1 1 1 2
Diseases of Female Genital	Air embolism	99		Due to enlarged thymus resulting from anæsthetic for operation Peripheral vascular collapse	{under }	1
Organs (624, 630–637)	During salpingectomy Operation for tubal insufflation	43 31	1 1	Post-operative depression of respiratory centre by morphine and nembutal	57	1
Abortion (650–652)	Hæmorrhage and shock Following perforation of uterus accidentally sustained during therapeutic abortion	23	1	Car of the same and respiratory strong		
Delivery (660–678)	Post-partum hæmorrhage Accelerated by transfusion of incompatible blood	21	1	Cardiac failure Due to chloroform and obstetric shock Vagal inhibition Due to swabbing of genitalia preparatory to induction of labour	25	15
Rheumatoid Arthritis and other Conditions (722, 726)	Change at a school age of programme beat a series of the s	100 Mg		Toxic purpura Following gold therapy, resulting in cerebral hæmorrhage Acutc yellow atrophy Due to poisoning by leucopterin phenylcinchoninic acid	62	1
The same tree was the same and	Application of the state of the	to napos)	1 Marian	Myocarditis Due to agranulocytosis Asphyxia Due to inhalation of stomach contents following narcosis by sodium amytal	35 69 52	1
Osteomyelitis (730)	Displacement made		VITANIEN	Aplastic anæmia Toxic effect of chloromycetin in bone marrow Cardiac failure Anæsthetic administered for operation	52 41	1

Table XCVII.—continued.

			Misadvent	ure of		
Assumed condition for which treated (and 1948 I.S.C. No.)	Therapeutic procedure	Ages (Females in italics)	No. of Deaths	Reaction to therapy	Ages (Females in italics)	No. of Deaths
Congenital Malformations (750-759)	Uræmia Tying of ureter in treatment for uretero-vaginal fistula	52	1	Cardiac failure Due to operative shock resulting from pneumonectomy	1	1
Ill-defined and Unknown Causes (795)	Paralytic ileus Perforated intestine. Operation for anterior bone block Post-operative shock Operation to remove broken hypodermic needle following an injection Emphysema Resulting from tear in the wall of œsophagus occa- sioned by an endoscopy Hæmopericardium Resulting from hypodermic needle puncture of coronary vein. Intra-cardiac injection Pulmonary embolism Resulting from laparotomy	54 1 57 { under 1 day } 70	1 1 1 1	Anaphylactoid purpura Cardiac inhibition Resulting from bronchoscopy for supposed obstruction Homologous serum jaundice Broncho-pneumonia Dermatitis medicamentosa Status Epilepticus Caused by abnormal sensitivity to penicillin	72 { 3 mths. } 45 70 23	1 1 1 1 1
Fractures (800–829)	General septicæmia Due to hæmolytic streptococci following operation tor fractured femur Cerebral ædema Due to renal failure resulting from over-medication	74 52	1	Shock and respiratory failure. Embarrassment associated with anæsthetic used to set broken elbow	24	1
Burns (942)				Anæsthetic narcosis Toxæmia due to burns during operation following scalds	2	1
Poisoning (960–979)	Broncho-pneumonia Due to wound of œsophagus caused by tube inserted for stomach-washing, consequent upon an overdose of phenobarbitone	28	1	Uræmia and toxæmia Following an acute attack of gastro-enteritis caused by home-made medicine Barbiturate poisoning Overdose of sedative given for excessive alcoholic drinking Misadventure in administration Soporific and analgesic drugs	65 49 666 82 33 55	1 2 2
Totals			48	24222233		101

Deaths associated with anæsthetics

Deaths during or connected with anæsthesia are primarily classified to the disease or injury requiring the administration of an anæsthetic. All such deaths are separately distinguished and in Table XCVIII those in the period 1950-52 have been tabulated by sex and age, according to the anæsthetic agents and associated drugs employed. As in similar tables in previous Reviews the various combinations are listed as given by coroners on their certificates and no attempt has been made to group or classify the material in any way.

Previous Reviews have drawn attention to the limited value of these tabulations, partly because no accurate measure is available, for comparison, of the population exposed to risk in each category, and partly because for any particular death it is not always clear whether, or to what extent, it was connected with or due to the use of anæsthetics. Since these limitations are likely to have a selective effect on the various anæsthetics recorded, the figures in Table XCVIII should be used with caution.

Table XCVIII.—Deaths under or connected with the administration of various anæsthetics, according to sex and age, in the period 1950-52

Anæsthetic agent or combination of	All	1 0	A SA IDE	lo n Settino	Age	000 20 20 2 681	iteogra di din Des	inscitztor 2024, Ada ,	LA REPLEK
agents, as stated on the Coroner's Certificate		0-	5-	15-	25-	35-	45-	55-	65 and over
Amethocaine \{\begin{aligned}M\\F\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		-	0 - 37	1	-	1	1	-	2
Amethocaine and novutox	1 1 1 1 1 1 1 1			2	1	- 1 1 - -	1	1 - - 1 -	1 - - - 1 1
Butyn $\left\{ \begin{array}{cccccccccccccccccccccccccccccccccccc$					一	2		1	_
SM SM	. 1	1	=	2	5	1	1	<u></u>	-
}M	. 4	i	-	-	2	-	1	-	
Chloroform, ether and ethyl chloride Chloroform, ether and nitrous oxide. Chloroform, nitrous oxide and pentothal	1 4	=	1 1 -	<u></u>		$\frac{1}{1}$	1 - -	- 2 1	
Cocaine \cdots $\begin{Bmatrix} M \\ F \end{Bmatrix}$	4	=	_		-		_	2 2	3 2
Synthetic cocaine Cocaine and novocaine Cocaine, omnopon and scopolamine Cocaine, pentothal Cocaine, pentothal and tubocurarine Cocaine and procaine Coramine and pentothal Corare Coramine and pentothal Curare M	1 1 1 1 1 1 1 1 2			1		1 1	- - - - 1	- - 1 - -	$\begin{bmatrix} -\frac{1}{1} \\ -\frac{1}{1} \\ -\frac{1}{1} \end{bmatrix}$
Curare and cyclopropane ${M \choose F}$. 5		_		-=	1	1	2 3	2 2
Curare, cyclopropane, flaxedil and pentothal	[.]		=	=	1 1	<u>-</u>	- - 5	- 8	1 10
Curare, cyclopropane and pentotnai		_	-	1	1	2	6	5	7
Curare, cyclopropane, pentothal and tubarine M		-	-	-	-	-	-	1	-
Curare, cyclopropane and thiopentone $\begin{Bmatrix} N \\ F \end{Bmatrix}$				_	_	_	1 1	1	1-
Curare and intraval Curare, omnopon, pentothal and scopolamine Curare, omnopon, scopolamine and thiopentone	 1 1 1 1 	-	_	- - -	1 - 2		- - - 3	1 1 11	1 - 10
Curare and pentothal $\binom{N}{F}$		1	1	2	2	3	4	5	6
Curare, thiopentone and tubarine F	1. 1	- 2				- 1 2	$\frac{1}{2}$	- - 6	$\frac{-}{12}$
Cyclopropane \{F	. 24	2	_	i	-	2	6	4	9
Cyclopropane and flaxedil M	1. 1	_	_		-	-	1		2000
Cyclopropane, flaxedil and intraval { H	1. 2 1	=	=	-	-	=	-	1	2
Cyclopropane, flaxadil nupercaine and	1. 1	_	_		1				1 1
Pentotian	1 0		-	-	1	1 2	1	4 2	3 4
Cyclopropane, flaxedil, pethidine and thiopentone	M. 1	_			-	_	-	1	100113
Customana floradil and thionentone	M. 2	_			-	19-		1	i
Cyclopropane and intraval	7. 1 M. 1 M. 1	=		=		1070		1 1 1	
Cyclopropane, kemithal and tubarine Cyclopropane, nupercaine, pentothal, scopolamine and tubocurarine	M. 1 M. 1	=	= -	=	=	1 -			1
Cyclopropane, omnopon and scopola-	7. 1 M. 2	1-		1-		=		1	1 1

Cyclopropane, omnopon, scopolamine

Cyclopropane, pentothal, thiopentone and tubarine

Cyclopropane, pentothal and tubarine Cyclopropane, pentothal and xylocaine Cyclopropane and procaine . . Cyclopropane and thiopentone

Cyclopropane, thiopentone and tubarine Cyclopropane and tubarine Cyclopropane and tubocurarine ...

Ether

Ether, curarine, cyclopropane and tubarine ...

tubarine Ether and cyclopropane

Ether, cyclopropane, flaxedil and intraval

Ether, cyclopropane, flaxedil, pentothal

Ether, cyclopropane and pentothal ..

Ether, cyclopropane, pentothal and

Ether, cyclopropane and thiopentone Ether, cyclopropane, thiopentone and

tubarine Ether, cyclopropane, thiopentone and tubocurine tubocurine
Ether and evipan
Ether and ethyl chloride

Ether, ethyl chloride, curare and thiopentone

Ether, ethyl chloride and nitrous oxide

Ether, nitrous oxide, amethocaine and

Ether, flaxedil and intraval ... Ether, flaxedil and pentothal Ether, flaxedil and thiopentone Ether, kemithal and tubarine

Ether and nembutal ..

Ether and nitrous oxide

novutox ...

Decicaine Duracaine Ephedrine and nupercaine ...

Anæsthetic agent or combination of agents, as stated on the Coroner's Certificate

All

1 19 22

 ${M.\atop K.\atop F.}$

M. M. M. F. M. F. M. F.

F.

F. M. F.

M.

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Table XCVIII.—continued.

Anæsthetic agent or combination of		All	Age								
agents, as stated on the Coroner's Certifi	icate	Ages	0-	5-	15-	25-	35-	45-	55-	65 and over	
Ether, nitrous oxide and avertin Ether, nitrous oxide, curaldy and pentosan	F.	1 1			1	1917			-	- OVEI	
	SM.	4	- 1	1	_	-	2	1	1		
Ether, nitrous oxide, curare, cyclopropane and pentothal Ether, nitrous oxide, curare and pentothal	\F. M. \M. \F.	1 2 13 7		<u></u>		<u></u>	3		3	2 4 4	
Ether, nitrous oxide, curare, pentothal and trilene	M. M.	1 2			/	_	_ 1	-	1	-	
Ether, nitrous oxide and cyclopropane	SM.	3	2	-	_	_	-		1		
Ether, nitrous oxide, cyclopropane and pentothal	\ F. \ \ F. \ \ F. \ \	1 1				<u> </u>	=	$\frac{-}{1}$	1 1	1	
	{ M. F.	4	I				_	_	1	3	
Ether, nitrous oxide, flaxedil and	\\ \Kappa \. \\ \F. \	4 4	1	_	900			1	1 1 -	2 3	
and trilene	F. (M. (F.	1 1 1	=	_	=		1	1	<u>-</u>	=	
	F. M. F.	1 1 1	<u>-</u>		_ 04	1	=	_	$\frac{1}{1}$	<u></u>	
lamine and trilene	F.	37	-		-	-	-	_	-	1	
Ether, introus oxide and pentotnai	(F.	21		4	3	2	3	8 4	8 4	7	
	F. M.	1 2	_	=	=	_	1 1	4=	<u></u>	=	
Ether, nitrous oxide, pentothal and tubocurarine	F.	1	1		-	77.09 —	1	1 —			
Ether, nitrous oxide and procaine Ether, nitrous oxide, procaine, thiopentone, and trilene Ether, nitrous oxide and thiopentone	F.	1 1 3		1		_	5 To 10	1	<u>-</u>	-	
Ether, nitrous oxide, thiopentone and tubarine	F. M.	1 1		_						2	
Ether nitrous oxide and trilene	∫ M. F.	6	1	-	-	2		1		2	
Ether, nitrous oxide and tubarine Ether, omnopon and scopolamine	F. F.	5 1 1	=	1		1	$\frac{3}{1}$	=	<u>-</u>	_	
Ether and pentothal	(M.) (F.)	5	二点	工門	1=		_	2	2	1	
Ether, pentothal, trilene and tubarine Ether, pentothal and tubarine Ether, pentothal and tubocurarine Ether and procaine	M. F. F.	1 2 1 1	<u>-</u>					1 1 -		<u>-</u>	
Ether, and thiopentone Ether, thiopentone and trilene Ether, thiopentone and tubarine	M. M. M.	1 1 1	1	<u></u>		10 10 10 10 10 10 10 10 10 10 10 10 10 1			1	<u> </u>	
Ether and trilene	⟨M. ⟨F.	1				1	19.E Dete	00 300	-	1	
Ether and tubarine Ether and vinesthene	F. M.	1 2	2		_6			Ξ	1	=	
Ethyl chloride	M. F.	9 7	7 4	1	1	2		Ξ	1		
Ethyl chloride and nitrous oxide	(M. F.	8	1	1	1	<u>-</u> 1	2 1	$-\frac{1}{1}$	-	4	
Ethyl chloride, nitrous oxide and curare Ethyl chloride, nitrous oxide, curare and pentothal	F.	1	-			ak Tentan		V.	i	in The	
Ethyl chloride, nitrous oxide, curare	{М. F.	1 2	-	土場		年 <u>20</u> 34	1	and the last	<u></u>	1 -	
evipan Ethyl chloride, nitrous oxide, flaxedil	F. M. F.	1 1 2	土	上海		untous .	011 <u>6</u> 01	1	1		
Ethyl chloride, nitrous oxide, omnopon scopolamine and thiopentone Ethyl chloride, nitrous oxide and	M. (M.	1 5	18	1.34	-			PROVING T	1		
	F.	9	1 8	1.14	1	- 6300 6300 6300	3	1	2	3	

57 62

Table XCVIII.—continued.

Anæsthetic agent or combination of	of	All		464.0		A	.ge			
agents, as stated on the Coroner's Cert	tificate	Ages	0-	5-	15-	25-	35-	45-	55-	65 and over
Nitrous oxide and cyclopropane	{M. F.	4 8	1 _	<u></u>	=	_	_	_	1 2	2 5
Nitrous oxide, cyclopropane and flaxedil	M.	1	_	_	_	_	_	1		_
Nitrous oxide, cyclopropane, flaxedil and pentothal	{M. F.	5 5	_	=	=	=	1 1	1 —	1 1	2 3
and scopolamine	F. {M. F.	1 11 7	* =	=	1	1	$\frac{-}{1}$	- 1 1	3 1	1 5 4
Nitrous oxide, cyclopropane, pentothal and tubarine Nitrous oxide, cyclopropane and thio-	M. M.	2 2	_	_	_	-	_	_	1	1
pentone	{F.	1					_	-		1
and hexamethonium bromide Nitrous oxide and evipan sodium Nitrous oxide, evipan, omnopon and	M. M.	1 1		=	=	1	=		1	<u>-</u>
Nitrous oxide, evipan and trilene	F. F. ∫M.	1 1 1	=			_	=		1 1	<u>-</u>
Nitrous oxide, flaxedil, intraval pento- thal and pethidine	ξF. F.	2	_		_		SECTION	0) (3 78)	î	1
Nitrous oxide, flaxedil, intraval and trilene	F.	1	_8							1
Nitrous oxide, flaxedil and kemithal Nitrous oxide, flaxedil, kemithal and pethidine	M. F.	1		1		_ 1		_	5000	Secretary.
Nitrous oxide, flaxedil, omnopon and pentothal	F.	1	_		_	_	- 100			1
Nitrous oxide, flaxedil, omnopon, pen- tothal and scopolamine Nitrous oxide, flaxedil, omnopon,	F.	1	_	-	_	-	ISELECTOR STREET	nea <u>.</u> De	1	
pentothal, scopolamine and trilene Nitrous oxide, flaxedil and pentothal	M. {M. F.	1 15 20	=	1	1		1	1 1	7	4
Nitrous oxide, flaxedil, pentothal and pethidine	{м. F.	5 6		Ξ		1 1 -	2	3 1 4	5	9 3 1
Nitrous oxide, flaxedil, pentothal and trilene Nitrous oxide, flaxedil and pethidine	{М. F. М.	10 5 2			=			2 2	2	4 2 2
Nitrous oxide, flaxedil, pethidine and thiopentone	F.	1	_		_	_	_	_	_	1
Nitrous oxide, flaxedil and thiopentone	${M. F.}$	7 4		_	=		_	1 1	4	2 3
Nitrous oxide, flaxedil and tubarine Nitrous oxide, intraval, pethidine and tubocurarine	F.	1			_	_	_		1 1	
Nitrous oxide and kemithal	M.	1 1	<u>-</u>			-	-99		1	-
Nitrous oxide, novocaine and pentothal Nitrous oxide, novocaine and thio-	₹F. F.	1 1			1	=	1	_	=	
Nitrous oxide, novutox and pentothal Nitrous oxide and nupercaine	M. F. M.	1 1 2		=	_	_	_	1 1	<u>-</u>	二
Nitrous oxide, nupercaine, omnopon, pentothal and scopolamine Nitrous oxide, nupercaine and pento-	M.	1	-	_	_	_	_	1	_	2001
Nitrous oxide, nupercaine and thio-	{М. F. М.	1 1 2	E	=	=	_	=	1 _	<u>-</u>	1
Nitrous oxide, omnopon, phenocaine and scopolamine	∖F.	1			_	-	-	1		
Nitrous oxide, omnopon and scopola- mine	${M. \atop F.}$	1 1	-11	=	=	=	=	1	<u>-</u>	1
Nitrous oxide and pentothal	{M. F.	42 38	_	2	2	2 4	4 6	4 5	14	14 16
Nitrous oxide and pentothal sodium Nitrous oxide, pentothal and pethidine Nitrous oxide, pentothal, pethidine	F. M.	1 1	=	=	=		_	-	1	
and trilene Nitrous oxide, pentothal, pethidine and tubarine	M. F.	1			_		_	-	_	1
Nitrous oxide, pentothal and procaine Nitrous oxide, pentothal, procaine and	M.	1	-	-	-	_	-	1 1	- To - 10	
Nitrous oxide, pentothal, scopolamine and xylocaine	F.	1 1			_	_	1	net Faci		
Nitrous oxide, pentothal sodium, thiopentone and trilene	F.	1	_		_		_		1	

Anæsthetic agent or combination of	All	Age Age							
agents, as stated on the Coroner's Certificate	Ages	0-	5-	15-	25-	35-	45-	55-	65 and ove
M.	10			1		cosmol	2	2	5
itrous oxide, pentothal and trilene \{F.	10		1	1	1	2	1.0	1 2 1	3
Vitrous oxide, pentothal and tubarine $\begin{cases} M. \\ F. \end{cases}$	5 2	二	三	-	1	na vo ro	1.	2	2
Nitrous oxide, pentothal and xylocaine $\begin{cases} M \\ F \end{cases}$.	1 1	三章	一直	_	_	1		DOST DO	1
Nitrous oxide and pethidine M. Nitrous oxide, procaine and thiopentone M.	2	E				_		1	1
Nitrous oxide, sodium thiopentone and trilene F.	1	_	_	-64	10 (c	s t == 01	10-13	India i	1
Vitrous oxide and thiopentone $\left\{ \begin{array}{ll} M. \\ F. \end{array} \right\}$	11 4	= 5	1	=	2	1	1	3	5 2
Nitrous oxide, thiopentone and trilene $\begin{cases} M. \\ F. \end{cases}$	3 2		1 1	1	三二	-	TO TO	-	1
Vitrous oxide, thiopentone and M.	4		-34	-	Santa Lis	1	2	2	1
tubarine \ \frac{\fir}}}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\firac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fracc}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fr	5 1 1		1	1		1 1	-	1	
curarine	13		1	1		2 2	3 2	1 2	5 2
Nitrous oxide and tubarine $\begin{cases} M. \\ F. \end{cases}$	1		=	_	1			10 M	1
Vitrous oxide and xylocaine F.	1	-	-1	-	-	-	-	h-in	1 3
Novocaine $\begin{Bmatrix} M. \\ F. \end{Bmatrix}$	5	1 1			- THE R	1	-	1	2
Novutox M.	1	-	-	-	-	1	1	2	-
Supercaine $\left\{egin{array}{lll} \mathbf{M}.\\ \mathbf{F}. \end{array}\right.$	10	1 = 1		1	1	2	2	-	- 4
Nupercaine, omnopon, scopolamine and thiopentone M.	1	-1	-		-	10 mm //	arati .	bino s	9 1
Januarina and mantathal SM.	6 4	=	=	1	9 -	1	1 2	1	02.5
Nupercaine and thiopentone F. M.	1			00	o casto	-	1.	100- 00	0.0-1
Omnopon and pentothal F.	2		-		No.	3	1		2
Omnopon, procaine and scopolamine F. Omnopon and scopolamine F.	1		-		100000	Den il	î	90160 8	100/1
Omnopon, scopolamine and stovaine M.	1 1	-			1	1			
Omnopon, scopolamine and thiopentone Omnopon, scopolamine, thiopentone and tubocurarine M.	1				1	and it	ozan ,	15215 H	in a
Pentothal $\begin{cases} M. \\ F. \end{cases}$		1	1 2	3 7	4 7	3 8	9 6	26 18	3:
Pentothal sodium $\left\{ \begin{matrix} M \\ F \end{matrix} \right\}$				_	_	_	1	1	-
Pentothal and flaxedil $\left\{ \begin{matrix} \mathbf{M} \\ \mathbf{F} \end{matrix} \right\}$		一二	1	-	<u>-</u>	1	1		-
M.	1	-	-		-	doug-la	_	1	-
Pentothal and procaine F.	1 1		/-	_	-	-	1 == E	-	1
Pentothal and scopolamine F.	1 1					studen	an Dan	40120	0.10
(M				-140	01-3	na-ud	S POYER	phil—a	100
Pentothal and trilene \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1 4			-0	-	1	CINCE .	1	
Pentothal and tubarine \{F.	3	-			10	004	3	abi ze a	-
Pentothal and tubocurarine M. Pentothal and xylocaine M.				1 =	1	_	naci sti .	10021	033
Percaine M.	1	-	1	-	-	1 12	See less		OSB
Pethidine M. Pethidine, thiopentone and tubo-	1							The state of	
curarine M.		-		-	125 14 54	01-0	HIGH	1	-
Planocaine M.		2			2	-	1	1	
Procaine F.	5		1	=	1	1-	1 4	7	0121
Iniopentone \{F.	14	-	-	-	1		5	1	
Thiopentone and pethidine M.			1	1 _	1	1	140 500	3	100
I hiopentone and tubarine \{F.	1	-	İ	-		i	o Dess		-
Thiopentone and tubocurarine M		=	=	=	1	1		Nix-	014
Irilene F .	1	-		-	-	1	-0	China-Di	1
Гиbocurarine	1 2	1	1	-		, u==0	1		-
	. 3	-	1	-	1	1	COLUMN TO SERVICE STREET	1	
Anæsthetic (not stated) \cdots F .	43 32	3	2	3 2	1 1 3	4.	6 4	11 5	1 1
Cr.			1				61 M 1 1 1	Spline in	
Total $\left\{ egin{array}{llllllllllllllllllllllllllllllllllll$	1017	95	49 35	31 36	49	78 113	129 123	235	35

Medical Certification of Cause of Death proportion of bodies seen after death

The usual summary of the percentage of deaths where the body was seen after death by the certifying practitioner or which were investigated by a coroner is given below. The figures for 1951 and 1952 are based on an examination of a sample of one medical certificate in seven.

	1928	1933	1947	1951*	1952*
Seen after death	51.0	53.7	60.9	67.9	71.3
Inquest or Coroners P.M. without inquest or other cases reviewed by coroners	11.2	11.2	14.0	17:3	18:7
Cases certified by Medical Practitioners	39.8	42.5	46.9	50.6	52.6
Not seen after death	48.5	46.1	38.8	31.8	28.6
No statement	0.5	0.2	0.3	0.3	0.1
Total	100.0	100.0	100.0	100.0	100.0
Total deaths in year	460,389	496,465	517,615	549,380	497,484

^{*} Estimated from a sample of medical certificates.

Both the proportion seen by certifying practitioners and the proportion investigated by coroners continued to increase. The statement by a certifying practitioner is made when he signs the medical certificate of cause of death and since there are likely to be occasions when he subsequently sees the body the proportion seen after death may be understated.

ADVISORY COMMITTEE ON MEDICAL NOMENCLATURE AND STATISTICS

Report (dated 27th February, 1953) on the Work of the Committee, November, 1950, to November, 1952

Introductory

The first report on the Committee's work covered the period of two years from the Committee's formation in November, 1948, to November, 1950. The present report carries the account forward a further two years to November, 1952.

It has been found that a number of matters submitted to the Committee require more detailed discussion than can conveniently be given in full Committee and that there is advantage in bringing in people from outside the Committee who may have a special contribution to make in considering them. To meet this need, the Committee has accordingly, since June, 1951, found it expedient to appoint several Sub-Committees to report on specific matters referred to them. References to the work of these Sub-Committees are made in the appropriate sections of the report and a list of their members is given at the end.

In addition, the membership of the main Committee was strengthened in November, 1951, particularly with a view to increasing the representation of both the providers of raw material for medical statistics and the users of the finished product. A list of present members is appended to the report.

In relation to the preparation of certain sections of the Code of Operational Procedures and of the draft Code of Anæsthetic Procedures (see below), advice has been obtained from a number of specialists who are not members of the Committee. Several of those listed in the previous report continued to give advice, and the Committee is grateful to them, as well as to those listed at the end of the present report, and to the staffs of hospitals which have helped by trying out the classifications concerned.

Form of Report

The pattern of the first report was determined by the type of work which fell to the Committee and can conveniently be continued in the present report under the three heads:—

(a) The International Classification,(b) Problems arising in this country.

(c) International Problems other than (a).

Many of the subjects considered by the Committee have both international and domestic aspects and their allocation under one head rather than another is to some extent arbitrary. For example, there is a domestic need for clarification of definitions used in morbidity statistics but, because the subject was specifically referred by World Health Organization for study in this country, it is dealt with as an international problem. On the other hand, since the question of instruction in medical certification was first considered by the Committee before any specific request on the subject was made by the World Health Organization, it is dealt with as a domestic matter.

Code of Operational Procedures. Since the last report, the draft tabular list has been in use on an experimental basis in a number of hospitals; this list has been supplemented by an alphabetical index and by a short section on radiotherapy procedures. The draft list is now being revised in the light of comments received from experts to whom it has been referred and of the experience of those hospitals which have been trying it out. It is hoped that the revised list will be adopted for general use in this country and it is proposed to submit it to the World Health Organization as a suggested basis for drawing up a classification for international use.

Code of Anæsthetic Procedures. The preparation of an acceptable code of anæsthetic procedures has met with considerable difficulties, largely in reconciling the amount of detail which anæsthetists tend to regard as essential for such a code to be useful with what appears to be practicable for a statistical classification. Nevertheless, thanks to the willing co-operation of a few anæsthetists, the Committee were able to accept, in November, 1952, a draft code as suitable for strictly limited trials, although they felt that the proposed code was probably still too detailed as a basis for statistics.

Adaptation of the International Classification for use as a Diagnostic Index. This question was referred to the Committee in March, 1951, partly as a result of a recommendation of the Expert Committee on Health Statistics set up by the World Health Organization (Report on the Second Session) and partly because there was an apparent need in this country for some guidance on the subject. The Sub-Committee, which was appointed to consider this and other matters relating to hospital statistics, obtained the views of a number of hospitals and has come to the conclusion that the International Classification is generally suitable for a diagnostic index and that its construction permits subdivision of its codes into varying degrees of detail. There are opposing views about the detail required in adaptation and the task of reconciling these views would be considerable. The Sub-Committee is, however, attempting to prepare a memorandum setting out the general principles which should be followed in adapting the classification for use as a diagnostic index.

Adaptation of the Classification to the needs of the Armed Services. In June, 1951, the Committee considered a paper received from the World Health Organization setting out proposals, prepared jointly by the Medical Advisory Committee of the Dominion Statistician of Canada and the United States Committee on Vital and Health Statistics, for adapting the International Classification to the needs of the Armed Services. The Committee appointed a Sub-Committee to consider the proposals in detail and accepted that Sub-Committee's Report in November, 1952. The Report, which considered the proposed abbreviated list unsatisfactory and the proposed detailed list impracticable in this country, included an alternative list following a framework similar to that used in the detailed list. This list, which is now being used by the armed services in this country, has been forwarded to the World Health Organization.

Problems arising in this Country

Registration of causes of stillbirth. The last Report recorded that the Committee was in favour of causes of stillbirth being registered in England and Wales. The matter was further discussed by the Committee in February, 1952, when it was decided that the Committee should not press for further action at present, because of differences of opinion about the possibility of obtaining sufficiently reliable information, particularly in view of the high proportion of stillbirths certified by mid-wives in England and Wales.

Hospital in-patient enquiry. The Committee has from time to time advised on points relating to this enquiry, the object of which is to obtain information about the "hospitalised" incidence of diseases and other information, relating to individual diseases, useful in the administration of the hospital service, e.g., delay in admission or duration of stay. In particular, the Committee considered, in November, 1951, the plans which were being made by the General Register Office and the Ministry of Health for extending the enquiry on a sampling basis with a revised form, designed to link up with the administrative statistics collected by the Ministry of Health; they took note of the progress made on these lines in November, 1952.

Cancer Registration Scheme. Figures relating to the position at the third year follow-up of cases registered in 1946 were put before the Committee in February, 1952. These figures indicated a number of deficiencies and difficulties in the registration scheme and it was decided to appoint a Sub-Committee to investigate and report on these. The Sub-Committee have suggested that a further serious attempt to achieve complete registration of hospital cases should be made and that, to assist in this, the abstract card should be simplified; they have considered the broad lines on which this might be done. A simplified scheme could not in itself provide information suitable for comparing the efficacy of different methods of treatment; if such a scheme is introduced, the problem of supplementing it by the collection of detailed information for this purpose will, therefore, have to be considered.

Mental Health Statistics. Preliminary figures for the first year of the enquiry, 1949, were considered by the Committee in February, 1952, and a number of suggestions were made with a view to increasing the usefulness of the statistics, particularly by distinguishing first from subsequent admissions. Some of these would require fairly radical reorganisation of the scheme and are being examined with that in mind.

Statistics derived from General Practitioners' Records. The Committee have commented on preliminary figures, from some of the ten practices taking part in this pilot enquiry, which were referred to the Committee in relation to the form of presentation to be adopted.

Medical Certification and Reporting of Diagnosis. In November, 1951, the General Medical Council considered the proposals for instruction in certification of causes of death which were submitted to them on the Committee's recommendation; the Council decided that there was little further that they could do about instruction in medical schools, and that it was for the Registrar General, rather than them, to issue guidance to newly qualified doctors. The Committee advised that, in the light of this decision, an approach should be made to deans of medical schools indicating broadly what appeared to be needed by way of instruction, covering reporting of diagnoses for other statistical purposes as well as certification of causes of death, and also suggesting that arrangements should be made for practical guidance in certification during the pre-registration year; this was done in September, 1952. Early in 1952, the World Health Organization's booklet on medical certification of cause of death was published and the Committee suggested that the issue of this booklet to all newly qualified doctors would be very useful; arrangements are being made for this to be done.

Statistical publications of the General Register Office. Proposals for a revision of the annual medical tables contained in Part I of the Registrar General's Statistical Review were considered by the Committee in March, 1951, and some suggestions relating to these tables were made. In June, 1952, the Committee

approved of a proposal to cease regular preparation of decennial "aggregate" volumes and welcomed a proposal to prepare interim tables relating to mortality in 1950 by social classes and certain broad occupational groups.

International Problems other than those concerned with Classification

Relating to Infant and Fætal Deaths. It has not been possible to make any further progress on the questions, referred to in the last Report, relating to a satisfactory definition of immaturity and the classification of fætal deaths when more than one cause is stated.

Rates and Definitions for use in Morbidity Statistics. At their third session, the Expert Committee on Health Statistics set up by the World Health Organization, recommended that preliminary reports on the subject of rates and definitions in morbidity statistics should be prepared by a number of countries, including the United Kingdom. This question was referred to the main Committee in February, 1952, and a Statistics Sub-Committee was appointed with the study of this subject allotted to it as its first task. The Sub-Committee is considering different fields of morbidity statistics in turn.

Other problems arising from the work of the Expert Committee on Health Statistics have been recommended for study. These were referred to the Committee, who were informed of preparatory work which was being done on a number of them, but they have not yet reached a stage when specific reference to them in this Report would be appropriate.

Future Work

The World Health Organization Expert Committee anticipated that the work of obtaining suggestions for revision of the International Classification should start early in 1953 with a view to holding the full revision conference in 1955. Revision problems will probably be referred to the Committee in the near future.

An International Conference of National Committees on Vital and Health Statistics and equivalent organizations is to be held in London in October, 1953, probably at Somerset House. The agenda for the Conference is likely to call for some preparatory work by the Committee and to give rise to further subjects which are deemed to require international consideration.

The morbidity enquiries at present being conducted are still subject to change both in their organization and in the form of presentation of the statistics collected. A Sub-Committee has already been set up to review the cancer registration scheme and, while other enquiries are unlikely to require the appointment of special Sub-Committees, the number of questions referred to the main Committee are not likely to diminish in the near future.

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GREAT BRITAIN AND IRELAND

Vital Statistics

Table A1 shows the census populations, by sex, of the several countries of Great Britain and Ireland for each census since 1821, and mid-year estimates for each of the last 35 years. Population estimates, marriages, births, deaths and infant deaths for the current year are shown in Table W and repeated, with comparative figures for earlier years, in Table XCIX.

Table XCIX.—Great Britain and Ireland. Vital Statistics. 1938 and 1946 to 1952

.(50)	Great Britain and Ireland	Britain and Wales Scotland		Northern Ireland	Irish Republic	Wales
	Estimated M	id-Year Hon	ne Populatio	on (in thousa	nds)	E Knor
1952 Males Females Persons.	25,722 27,670 53,392	21,110 22,845 43,955	2,442 2,672 5,114	670 705 1,375	1,500 1,448 2,948	1,270 1,320 2,590
bus santheous and	Operations	Ma	rriages	ook so bes	dvhs odw .	specialists
1952 Persons married per 1,000 living 1938 1946 1947 1948 1949 1950 1951 1952	16·8 17·6 18·0 17·6 16·6 15·8	349,308 17·6 18·0 18·6 18·2 17·1 16·3 16·5 15·9	15.5 17.7 17.2 16.8 16.0 15.5 16.2 16.1	9,300 13:4 14:5 14:1 13:7 13:4 13:2 13:7 13:5	15,769 10·1 11·8 11·0 10·8 10·9 10·9 10·7 10·7	20,590 16·2 — — — 16·0 15·9
		Live	e Births*			incept).
1952 Per 1,000 living 1938 1946 1947 1948 1949 1950 1951 1952	15·7 19·6 20·8 18·3 17·2	673,735 15·1 19·2 20·5 17·8 16·7 15·8 15·5 15·3	90,422 17·7 20·2 21·9 19·3 18·4 17·7 17·7	28,760 20·0 22·3 23·2 21·7 21·2 20·9 20·7 20·9	64,226 19·4 22·9 23·2 22·0 21·5 21·3 21·2 21·8	41,388 15·3 — — — — — — — — — — — — —

^{*} England and Wales: occurrences; remainder: registrations.

Table XCIX.—continued.

he combined rate housand. I Irdand in 1952 were unduly high	Great Britain and Ireland	Britain and Wales		Northern Ireland	Irish Republic	Wales
ic seed in rate fell ed in cach of the	omo ens vraedo ens	TROY OF De	aths†	en chicacour	arakaj as 19. julik ca	Of Market
1952 Per 1,000 living 1931–1938‡ 1946 1947 1948 1949	608,961 12·4 12·3 12·3 11·0 11·8 11·7	497.484 12·0 12·0 12·0 10·8 11·7 11·6	61,510 13·3 13·1 12·9 11·8 12·3 12·4	14,812 14·4 12·5 12·6 11·2 11·4 11·6	35,155 14·2 14·0 14·8 12·1 12·7 12·7	31,005 12·9
1951 1952	12·7 11·4	12:5	12·9 12·0	12·8 10·8	14·3 11·9	13·9 12·0
	s bus zola reonso ru	eaths of Infa	ants under 1	year§	Altonodul i Arte March	monuninja:
1952 Per 1,000 live births 1938 1946 1947 1948 1949 1950 1951	25,499 55 44 45 37 35 32 32 30	18,555 53 43 41 34 32 30 30 28	3,181 70 54 56 45 41 39 37 35	1,117 75 54 53 46 45 40 41 39	2,646 67 65 68 50 51 45 45 41	1,377 - 57 47 49 39 39 35 36 33

† Deaths include those of non-civilians registered in the country. Death rates, except for the Irish Republic, are based on civilian deaths and populations for 1946. From 1947 to 1949 inclusive, the death rates for England and Wales and for Northern Ireland are based on total deaths and populations, and those for Scotland on total deaths and populations excluding armed forces overseas in 1939. The death rates from 1950 are based on total deaths and home populations.

‡ Crude death rates in 1938 were rather lower than in adjacent years.

§ England and Wales: deaths per 1,000 related live births; remainder: deaths per 1,000 live births registered in the year.

Population—The combined home population of Great Britain and Ireland at mid-1952 was estimated at 53,392,000, an increase of $5 \cdot 3$ per cent above that of 1939. The corresponding increase for England and Wales was about 6 per cent, for Scotland 2 per cent, for Northern Ireland 6 per cent and for the Irish Republic $\frac{1}{2}$ per cent.

Marriage Rates— The crude marriage rate in 1952 declined slightly compared with 1951 in all the countries except the Irish Republic where it remained level. The rates were above the pre-war level in Scotland and Ireland, but in England and Wales the crude rate had fallen below that of 1938. The crude rates, however, are somewhat misleading, as they are based on the total population of which only the non-married component is at risk and this component has been reduced by high marriage rates for over a decade. The detailed analysis in the Marriage chapter of this volume shows that in fact in relation to the non-married population marriage incidence in England and Wales is still very much higher than before the war.

Birth Rates—Crude birth rates, which have been declining from their postwar peak in 1947, remained fairly steady in 1952 on the whole. There was a slight fall in England and Wales and a slight rise in Ireland, the combined rate for all countries remaining the same as in 1951, viz. 16·1 per thousand.

Death Rates—The number of deaths in Great Britain and Ireland in 1952 fell by about 66,000 compared with 1951, when the numbers were unduly high owing to an influenza epidemic early in the year. The crude death rate fell from 12.7 to 11.4 per thousand, and reductions were observed in each of the countries, especially in Ireland and in Wales.

Infant Mortality Rates—The death rates of infants under 1 year of age per 1,000 live births were lower in 1952 than in the previous year. The combined rate per 1,000 for the whole of Great Britain and Ireland was 30, and the individual rates ranged from 28 in England and Wales to 41 in the Irish Republic.

Causes of Death in the United Kingdom—Numbers of deaths and crude death rates in 1952 for a short list of causes are given in Table C for the United Kingdom as a whole and for the constituent countries.

In relation to rates for the United Kingdom as a whole, mortality from respiratory tuberculosis was high amongst men in Wales and amongst women in Scotland and Northern Ireland. The mortality from cancer of stomach was higher for each sex in Wales, whereas mortality from cancer of lung (each sex) and from cancer of breast (female) were notably lower in Northern Ireland. The latter area had the highest rate for acute rheumatic fever but the lowest for chronic rheumatic heart disease. Deaths ascribed to intracranial vascular disorders, coronary and myocardial disease, tended to be higher in Scotland, but fewer deaths were assigned to hypertension.

In Wales a lower mortality from pneumonia was recorded for females, whereas death rates from bronchitis were much higher in Wales and in England than in Scotland and Northern Ireland.

Large differences were recorded in the proportions of deaths assigned to senility, arising from differences in certification and classification between the countries.

Mortality from motor vehicle accidents showed no large variations, but the rates for fatal accidents of other kinds were notably higher in Scotland (each sex) and in Wales (males). The suicide rates for each sex were highest in England, lower in Wales and Scotland, and lowest in Northern Ireland.

Table C.—Deaths and Death Rates by Cause and Sex, 1952. United Kingdom and its divisions.

Cause of Death			Deaths						Death Rates per million living						
(and International classification numbers)	Sex	United Kingdom	Great Britain	England	Wales	Scotland	Northern Ireland	United Kingdom	Great Britain	England	Wales	Scotland	Northern Ireland		
All Causes	{ M. F.	296,827 276,979	289,161 269,833	240,775 225,704	16,985 14,020	31,401 30,109	7,666 7,146	12,250 10,572	12,273 10,585	12,130 10,496	13,374 10,637	12,859 11,267	11,442 10,136		
Tuberculosis of respiratory system (001-008)	{ M. F.	7,465 3,604	7,268 3,476	5,929 2,699	492 215	847 562	197 128	308 138	308 136	299 126	387 163	347 210	294 182		
Tuberculosis, other forms (010-019)	{ M. F.	826 712	787 666	650 511	43 46	94 109	39 46	34 27	33 26	33 24	34 35	38 41	58 65		
Syphilis and its sequelae (020-029)	{ M. F.	1,197 565	1,173 556	1,026 503	71 19	76 34	24 9	49 22	50 22	52 23	56 14	31 13	36 13		
Typhoid fever (040)	{ M. F.	7 5	6 4	4 4	1	1	1 1	0 0	0 0	0 0	_1	0	1 1		
Cholera (043)	{ M. F.	_		=				_	_	_					
Dysentery, all forms (045-048)	{ M. F.	25 17	25 17	21 12	_3	1 5	8 5 1	1 1	1 1	1 1	2	0 2			
Scarlet fever and streptococcal sore throat (050-051)	{ M. F.	31 39	31 38	28 31	2 3	1 4	<u>-</u>	1 1	1	1 1	2 2	0	-1		
Diphtheria (055)	{ M. F.	19 21	19 21	13 16	1 2	5 3		1 1	<i>I</i> 1	1 1	1 2	2			
Whooping cough (056)	{ M. F.	104 128	94 116	75 97	9 3	10 16	10 12	4 5	4 5	4 5	7 2	4 6	15 17		
Meningococcal infections (057)	{ M. F.	188 156	180 155	150 123	10 7	20 25	8	8 6	8 6	8 6	8 5	8 9	12		
Plague (058)	{ M. F.	_	_	<u>-</u>	至多			_	_						
Acute poliomyelitis (080)	{ M. F.	179 115	175 112	160 105	7 3	8 4	4 3	7 4	7 4	8 5	6 2	3	6		
Smallpox (084)	{ M. F.	$-\frac{1}{1}$	$-\frac{1}{1}$	<u></u>				<u>-</u>				_			
Measles (085)	{ M. F.	87 84	82 81	68 67	3 3	11 11	5 3	4 3	3 3	3 3	2 2	5 4	7 4		
Typhus and other rickettsial diseases (100-108)	{ M. F.	$-\frac{1}{2}$	$-\frac{1}{2}$	$\left \begin{array}{c} - \\ 1 \end{array} \right $	_		_	$\frac{1}{0}$	$-\frac{1}{0}$	$-\frac{1}{0}$		$-\frac{1}{0}$			

Table C.—continued

Cause of Death	100			Dea	ths		1	20	Death	Rates per mi	illion living		
(and International	Sex	United Kingdom	Great Britain	England	Wales	Scotland	Northern Ireland	United Kingdom	Great Britain	England	Wales	Scotland	Northern Ireland
Malaria (110-117) {	M.	8	8	7	1	5,54,54	- 1	0	0	0 0	1	-	
All other diseases classified as infective and parasitic (120-138)	F. M. F.	639 630	617 613	490 507	39 44	88 62	22 17	26 24	26 24	25 24	31 33	36 23	33 24
Malignant neoplasm of stomach (151)	M. F.	9,301 7,364	9,048 7,174	7,392 5,855	674 488	982 831	253 190	384 281	384 281	372 372	531 370	402 311	378 270
Malignant neoplasm of trachea, bronchus and lung (162-163)	M. F.	13.417 2,521	13,256 2,483	11,415 2,144	566 93	1,275 246	161 38	554 96	563 97	575 100	446 71	522 92	240 54
Malignant neoplasm of breast {	M. F.	70 9,271	67 9,108	55 7,842	443	8 823	3 163	3 354	3 357	3 365	3 336	308	231
Malignant neoplasm of uterus (171-174)	F.	4,612	4,499	3,785	239	475	113	176	176	176	181	178	160
Leukaemia and aleukaemia (204)	M. F.	1,241 1,070	1,210 1,045	1,043 900	59 41	108	31 25	51 41	51 41	53 42	46 31	44 39	46 35
Other malignant and lymphatic neoplasms (remainder of 140-205)	M. F.	27,631 23,364	27,020 22,851	22,781 19,240	1,440 1,143	2,799 2,468	611 513	1,140 892	1,147 896	1,148 895	1,134 867	1,146 924	912 728
Benign and unspecified neoplasms (210-239)	M. F.	876 1,042	852 1,009	732 869	59 56	61 84	24 33	36 40	36 40	37 40	46 42	25 31	36 47
Diabetes mellitus (260) {	M. F.	1,262 2,628	1,233 2,582	1,023 2,097	68 150	142 335	29 46	52 100	52 101	52 98	54 114	58 125	43 65
Anaemias (290-293) {	M. F.	724 1,363	695 1,325	559 1,047	44 101	92 177	29 38	30 52	29 52	28 49	35 77	38 66	43 54
Vascular lesions affecting central nervous system (330-334)	M. F.	33,830 46,573	33,017 45,458	27,214 37,708	1,944 2,522	3,859 5,228	813 1,115	1,396 1,778	1,401 1,783	1,371 1,754	1,531 1,914	1,580 1,956	1,213 1,582
Nonmeningococcal meningitis (340) {	M. F.	251 183	241 173	183 136	14 9	44 28	10	10 7	10 7	9 6	7	18 10	15
Rheumatic fever (400-402) {	M. F.	181 232	165 207	130 168	14 16	21 23	16 25	7 9	7 8	7 8	11 12	9 9	24 35
Chronic rheumatic heart disease (410-416)	M. F.	3,830 6,342	3,760 6,224	3,222 5,246	247 391	291 587	70 118	158 242	160 244	162 244	194 297	119 220	104 167

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Cause of Death		332		Deat	hs 4				Death R	ates per milli	on living	9	
(and International classification numbers)	Se	United Kingdom	Great Britain	England	Wales	Scotland	Northern Ireland	United Kingdom	Great Britain	England	Wales	Scotland	Northern Ireland
Arteriosclerotic heart diseases in- cluding coronary disease (420)	{ M F.	м:81,060	\$\begin{pmatrix} 43,988 \\ 25,298 \end{pmatrix}\$	36,579 21,281	2,418 1,151	4,991 2,866	м:2,059	м:3,345	1,867	1,843	1,904 873	2,044 1,073	M:3,073
Degenerative heart disease (421, 422)	{ M F.	$\int \mathbf{F}:73,179$	35,013 46,235	28,764 38,699	2,048 2,287	4,201 5,249	F:1,646	F:2,793	1,486	1,449 1,753	1,613 1,735	1,720 1,964	F:2,335
Other diseases of heart (430-434)	{ M F.	4,015 4,574	3,792 4,290	3,064 3,465	206 208	522 617	223 284	166 175	161 168	154 161	162 158	214 231	333 403
Hypertension with heart disease (440-443)	{ M F.	5,646 6,681	5,447 6,438	4,784 5,642	297 271	366 525	199 243	233 255	231 253	241 262	234 206	150 196	297 345
Hypertension without mention of heart (444-447)	{ M F.	4,403 4,570	4,333 4,484	3,666 3,826	259 231	408 427	70 86	182 174	184 176	185 178	204 175	167 160	104
Other circulatory diseases (450-468)	{ M F.	7,700 8,368	7,552 8,242	6,465 7,094	393 418	694 730	148 126	318 319	321 323	326 330	309 317	284 273	221 179
Influenza (480-483)	{ M F.	1,051 1,076	1,020 1,046	826 812	53 59	141 175	31 30	43 41	43 41	42 38	42 45	58 65	46 43
Pneumonia (490-493, 763)	{ M F.	11,082 9,956	10,775 9,714	9,310 8,472	472 354	993 888	307 242	457 380	456 381	469 394	372 269	407 332	458 343
Bronchitis (500-502)	{ M F.	19,221 10,472	18,985 10,308	16,616 9,075	1,078 499	1,291 734	236 164	793 400	806 404	837 422	849 379	529 275	352 233
Other diseases of respiratory system (470-475, 510-527)	{ M F.	3,658 1,693	3,572 1,638	2,659 1,326	516 75	397 237	86 55	151 65	152 64	134 62	406 57	163	128
Ulcer of stomach and duodenum (540-541)	{ M. F.	4,614 1,514	4,543 1,480	3,837 1,274	222 51	484 155	71 34	190 58	193 58	193	175	198 58	106 48
Appendicitis (550-553)	{ M. F.	668 513	662 501	560 431	38 16	64 54	6 12	28 20	28 20	28 20	30 12	26 20	9
Intestinal obstruction and hernia (560-561, 570)	(M. F.	1,840 1,819	1,795 1,773	1,490 1,479	98 77	207 217	45 46	76 69	76 70	75 69	77 58	85 81	67 65
Gastritis, enteritis and diarrhœa, except diarrhœa of newborn	M.	1,285	1,218	978	87	153	67	53	52	49	69	63	100
(543, 571-572)	F.	1,562	1,508	1,245	88	175	54	60	59	58	67	65	77
Cirrhosis of liver (581)	M. F.	765 559	745 545	590 456	55 23	100 66	20 14	32 21	32 21	30 21	43 17	41 25	30 20

Table C.—continued.

Cause of Death				11	Dea	ths	LEED.			E S A	Death Rates	s per millio	n living	
(and International classification numbers)	S	ex	United Kingdom	Great Britain	England	Wales	Scotland	Northern Ireland	United Kingdom	Great Britain	England	Wales	Scotland	Norther Ireland
Nephritis and nephrosis (590-594)	{ }	M.	3,362 3,270	3,260 3,181	2,739 2,654	255 225	266 302	102 89	139 125	138 125	138	201	109	152 126
Hyperplasia of prostate (610)	I	M.	4,931	4,804	4,013	338	453	127	203	204	202	266	186	190
Complications of pregnancy, child birth and puerperium (640-689)	F	7.	621	590	. 465	33	92	31	24	23	22	25	34	44
Congenital malformations (750-759)		M.	2,757 2,563	2,622 2,441	2,171 2,002	152 128	299 311	135 122	114 98	111 96	109	120 97	122 116	201 173
Birth injuries, postnatal asphyxia and atelectasis (760-762)		M.	3,206 2,023	3,054 1,939	2,488 1,561	168 106	398 272	152 84	132 77	130 76	125 73	132 80	163 102	227 119
Diarrhœa of newborn (764)	{ N F	M.	M: 728 F: 505	∫ 54 36	36 22	4 4	14 10	M: 21	M: 30	2 1	2 1	3 3	6 4	M: 31
Other infections of newborn (763, 765-768)		M.	F. 303	653	529 376	46 28	78 45	}F: 20 {	}F: 19 {	28 18	27 17	36 21	32 17	F: 28
Other diseases of early infancy, and immaturity unqualified	IN	1.	3,346	3,181	2,461	234	486	165	138	135	124	184	199	246
(770-776)	F	7.	2,458	2,361	1,875	143	343	97	94	93	87	108	128	138
Senility without mention of psy- chosis, ill-defined and unknown	IN	Л.	4,277	3,898	2,667	330	901	379	177	165	134	260	369	566
causes (790-795)	F	7.	6,228	5,770	4,319	429	1,022	458	238	226	201	325	382	650
All other diseases (Remainder 001-795)	{ N F		9,976 12,170	9,620 11,778	7,929 9,712	595 695	1,096 1,371	356 392	412 465	408 462	399 452	469 527	449 513	531 556
Motor vehicle accidents (E810- E835)	{ M F		3,570 1,118	3,473 1,095	2,961 910	186 60	326 125	97 23	147 43	147 43	149 42	147 46	133 47	145 33
All other accidents (E800-802, E840-962)	{ M F	1.	7,046 5,082	6,877 4,948	5,373 3,939	477 256	1,027 753	169 134	291 194	292 194	271 183	376 194	422 282	252 190
Suicide and self-inflicted injury (E963, E970-E979)	(M F		3,007 1,653	2,977 1,642	2,655 1,489	133 61	189 92	30 11	124 63	126 64	134 69	105 46	77 34	45 16
Homicide and operations of war (E964, E965, E980-E999)	(M F		224 107	219 106	195 88	12 7	12 11	5 1	9 4	9 4	10 4	9	3 4	7 1

INTERNATIONAL CO-OPERATION IN POPULATION AND HEALTH STATISTICS IN THE YEAR 1952

United Nations

The adoption of the principle of biennial sessions for the Population Commission meant that there was no meeting in 1952. Nor, for the same reason, was there a meeting of the Statistical Commission. It was, therefore, a comparatively uneventful year for demographic statistics in the meeting rooms of United Nations. The Economic and Social Council held its Fourteenth Session in New York between the 20th May and the 1st August, but the only item on its agenda relevant to the present Review concerned the arrangements for the proposed World Population Conference. The Council recorded its approval of the project for a World Population Conference of experts to be held in 1954 under the auspices of United Nations in close collaboration with the International Union for the Scientific Study of Population and those of the specialised agencies having an interest in demographic matters.

United Nations Statistical Commission

In the Text Volume for 1951 reference was made at some length to the history and functions of the Population Commission and although the Statistical Commission did not meet during the period now under review, it is perhaps convenient now to give a brief indication of the scope and functions of that Commission so far as relevant to the work of the General Register Office. The Statistical Commission of United Nations is one of the advisory bodies set up by the Economic and Social Council in 1946². The Commission's terms of reference make it responsible for assisting the Council (a) to encourage the development of national statistics and their international comparability; (b) to co-ordinate the statistical work of the specialised agencies; (c) to develop the central statistical services of the Secretariat: (d) to advise the organs of United Nations on general aspects of the collection, interpretation and dissemination of statistical information; and (e) to further the improvement of statistics and statistical methods generally. The Statistical Office of the United Nations services the Statistical Commission and assists the Population Division to service the Population Commission.

Before the formal constitution of the Statistical Commission there was a meeting in 1946 of the "nuclear" Commission at which Mr. H. Campion, Director of the Central Statistical Office, was the United Kingdom representative.

Since January, 1947, after it was formally constituted, the Statistical Commission had held six sessions, the last one in May, 1951. With one exception, when it met at Geneva, the meetings took place in New York. Professor R. G. D. Allen (London School of Economics and Political Science) acted as United Kingdom representative at the first two of these sessions, while Mr. Campion was seconded as Head of the newly formed Statistical Office of the United Nations. Mr. Campion resumed the United Kingdom representation on the Statistical Commission at the later sessions.

Discussion in the Statistical Commission in relation to population and vital statistics has been mainly concerned with questions of statistical methodology or the linking of population statistics with other statistics. Matters which the Statistical Commission and the Population Commission have considered in

collaboration include recommendations on ways in which comparability between national censuses could be improved, the elaboration of standard international classifications of industry and occupation, questions of statistical methodology and comparability in vital statistics, plans for improving migration statistics, and the preparation of a booklet expounding the principles of vital registration and statistics.

World Health Organization

The Executive Board of WHO held its Ninth Session at Geneva between the 21st January and the 4th February. Population questions were the subject of three resolutions.3 In the first the Executive Board expressed satisfaction with the collaboration in demographic problems undertaken or to be undertaken by the World Health Organization with United Nations, with emphasis on the exclusively technical character of the role of WHO. This emphasis reflected the limitations which it was felt to be prudent to stress in response to a request by the Government of India for the Organization's help in carrying out experimental field studies in the rhythm method of birth control. The second resolution recommended to the World Health Assembly the adoption of certain other resolutions arising out of the Report of the WHO Expert Committee on Health Statistics (see below under Fifth World Health Assembly). Thirdly, the Executive Board endorsed the Director-General's reply to a questionnaire circulated by the UN Department of Social Affairs, the essence of which was an indication of WHO's desire to participate in the forthcoming World Population Conference. The Board expressed the opinion that it would be premature to hold a conference of this nature before 1954, since it was desirable that the results of the crop of censuses taken around the years 1950 and 1951 should be available as fundamental data. The Director-General was enjoined to proceed with the necessary plans for the Organization's participation in the conference which ultimately took place in September 1954.

Fifth World Health Assembly

The Fifth World Health Assembly took place in Geneva from the 5th to the 22nd May. The United Kingdom Delegation included Mr. R. M. Blaikley, a Principal in the General Register Office, as Adviser on health statistics. The Assembly noted⁴ the Report of the Expert Committee on Health Statistics which had met in 1951; it invited the attention of member governments to the recommendations in the Report concerning national committees (or equivalent bodies) on vital and health statistics, and enjoined member governments to encourage the medical profession, especially through university clinical education, to collaborate in the proper reporting of morbidity and causes of death, while maintaining a due regard to confidentiality. The cleavage of opinion in the Assembly on the subject of birth control led to the withdrawal of certain draft resolutions that had been canvassed on the subject.

International Congress on Medical Records

An International Congress on Medical Records, the first of its kind, conducted under the auspices of the Association of Medical Records Officers, met at King's College, London, between the 8th and the 12th September. The opening address was delivered by the Chief Medical Officer of the Ministry of Health. The General Register Office participated in the work and members of the staff delivered the following papers:—

Cancer Registration and Follow-up: by Dr. W. P. D. Logan. Mental Health Records: by Miss Eileen M. Brooke. Tuberculosis Notification and Registration: by Mr. B. Benjamin. The Hospital In-patient Enquiry: by Dr. Donald MacKay. General Practitioners' Records: by Mr. A. Cushion.

The former Chief Medical Statistician at the General Register Office, Dr. Percy Stocks, also addressed the Conference on "The International Aspect of Medical Records".

Visits to and visitors from other countries

In the course of the year Dr. Logan, Chief Medical Statistician of the General Register Office, visited Holland to see the Dutch Cancer Registration Scheme in operation. The General Register Office received visitors and students with a technical interest in its work from the following countries:—Australia, Canada, Chile, Denmark, Guiana (British), India, Mauritius, Pakistan, Puerto Rico, Sarawak, Sierra Leone, Sweden, United States of America, Yugoslavia.

REFERENCES

- 1. Economic and Social Council Official Records: Fourteenth Session 20th May to 1st August 1952. Supplement No. 1. Resolution 435 (XIV) World Conference on Population.
- 2. Resolutions 8(I) of 16.2.46 and 8(II) of 21.6.46.
- 3. Official Records of the World Health Organization No. 40. Resolutions on population problems (EB9.R82); Expert Committee on Health Statistics (EB9.R86); World Population Conference (EB9.R87).
- 4. Official Records of the World Health Organization No. 42. Resolution on vital and health statistics (WHA5.26).

THE REGISTRATION SERVICE

Local Organization

As a result of further reorganisation in registration districts the number of registration posts was reduced in 1952 from 1,986 to 1,979. The number of officers paid by fees continued to decline. The following table shows the position at the end of 1952:

Registration Posts

2 27 072 25 45 4 20 303 7 748 18 2748	Salaried Posts	Posts held by fee-paid Officers	Total
Superintendent Registrar Registrar of Births and Deaths Additional Registrar Registrar of Marriages	505 1,208 168	22 18 	527 1,226 168 58
Total	1,881	98	1,979

Searches and Certificates

Table CI., shows the extent to which the records in the General Register Office have been used since 1866.

Table CI.

Year*	Total Searches	Searches for Govt. Depts.	Searches paid for by the public	Certificates issued	Amount Received
	24,606	188741 1 080.5	accept.	100,00	1,501 1 1,501
1866 1875 1885 1895 1905 1915 1925‡ 1935 1946 1946 1947 1948‡ 1949 1950 1951	12,135 26,356 36,450 53,289 65,142 202,939 488,781 591,056 569,266 826,380 1,180,519 943,705 793,386 732,511 809,702 778,139	118,788 339,790 443,783 380,730 544,843 873,868 658,251 527,814 486,386 555,067 545,390	12,135 26,356 36,450 53,289 65,142 84,151 148,991 147,273 188,536 281,537 306,651 285,454 265,572 246,125 254,635 232,749	10,017 20,282 27,682 35,727 50,310 69,746 115,378 119,351 187,077 271,208 299,525 350,626 310,723 285,487 312,595 293,384	£ s. d. 1,860 15 6 3,879 15 6 5,317 13 6 7,200 12 6 9,611 9 0 13,007 10 0 25,610 2 6 26,221 9 6 39,474 14 3 56,676 8 9 61,900 15 6 56,954 15 9 52,728 3 6 51,215 17 8 52,966 8 0 †57,569 7 6

[†] On 1st July, 1952, fees were increased by 50 per cent.

^{*} These periods relate to 52 weeks except those marked ‡ which relate to 53 weeks.

Table CII analyses the searches undertaken on behalf of Government Departments since 1946.

Table CII.

678	Year*										
esperaltical line riche	1946	1947	1948†	1949	1950	1951	1952				
Contributory Pensions and National Insur- ance Benefits Family Allowances Non-Contributory Pen-	301,937 78,987	415,294 362,846	411,897 170,204	264,344 182,308	300,050 127,013	354,952 147,743	355,655 138,115				
sions Ministry of Pensions Navy, Army & Air Force Others	58,321 94,350 11,248	46,863 39,010 9,855	38,250 27,028 8,872 2,000	23,917 25,456 10,932 20,857	22,430 20,593 7,612 8,688	13,210 19,748 12,339 7,075	10,825 18,574 13,817 8,404				
Total	544,843	873,868	658,251	527,814	486,386	555,067	545,390				

Table CIII shows the numbers of Birth and Adoption certificates issued from the General Register Office since 1946 including short certificates introduced in 1947.

Table CIII.

V*	Bir	th Certifica	ites	Adop	Adoptions		
Year*	Standard	Short	Total	Standard	Short	Total	Registered
1946	195,163		195,163	22,000		22,000	21,280
1947	211,000	1,060	212,060	18,600	1,150	19,750	18,269
1948†	176,631	62,662	239,293		32,331	45,443	18,550
1949	158,510	59,167	217,677	13,464	20,370	33,834	17,331
	143,135	55,307	198,442	10,102	15,824	25,926	12,748
1951	153,935	67,697	221,632	10,080	15,688	25,768	13,854
1952	132,431	73,505	205,936		14,666	24,606	13,900

^{*} These periods relate to 52 weeks except those marked † which relate to 53 weeks.

Adoption of Children

During 1952 entries relating to the adoptions of 13,900 children were made in the Adopted Children Register maintained by the Registrar General under the Adoption Acts, 1926-1950. An analysis of adoptions recorded since 1927 is given in Table T 3 of the Registrar General's Statistical Review for 1952, Tables Part II, Civil.

Re-registration of Births under the Legitimacy Act, 1926

During 1952 the births of 2,588 legitimated persons were re-registered. The numbers of births re-registered since 1927, when the Legitimacy Act, 1926, came into operation, are given in Table T 2 of the Registrar General's Statistical Review for 1952, Tables Part II, Civil.

Registration of Births, Deaths and Marriages Abroad

An account of the various arrangements for registration of births, deaths and marriages of British subjects, including members of H.M. Forces, abroad, and for the registration of births and deaths at sea and in the air was given in the Registrar General's Statistical Review, Civil Text, 1946-1950, pages 164-166.

The numbers of events recorded during 1952 are shown in the following able:—

Form of Record	Births	Deaths	Marriages
Consular	4,023 4,720 — 58	842 895 104 640	523 1,183 —
U.K. Deputy High Commissioners (India and	-	37 deaths 13 missing persons	_
Pakistan) Foreign Marriages registered at the General Register Office Certificates of Marriages according to Local Law	677	52	7
overseas deposited at the General Register Office	EFF odd	e de construir en State Septembre - Proposition	76

Offences under the Registration Acts

In 1952 five persons were prosecuted for failing to comply with a requisition to register a birth and four convictions were obtained. One person was prosecuted and found guilty of giving false information for insertion in a birth entry; one person was found guilty of forging a birth certificate and one of forging a death certificate. Seven prosecutions were instituted under the Perjury Act, 1911, against persons making false declarations for the purpose of procuring marriages and a conviction obtained in each case.

NATIONAL REGISTRATION

End of National Registration

National Registration was brought to an end by an Order in Council (The National Registration Act (End of Emergency) Order, 1952—S.I.1952 No. 1035) made 23rd May, 1952, naming 22nd May, 1952, as "the date on which the emergency that was the occasion of the passing of the National Registration Act, 1939, came to an end". The use of identity cards had been discontinued from 21st February, 1952, when the Minister of Health had made an announcement in the House of Commons saying "Her Majesty's Government have decided that it is no longer necessary to require the public to possess and produce an identity card, or to notify change of address for National Registration purposes though the numbers will continue to be used in connection with the National Health Service".

A review of the work of the National Register during the 12½ years of its existence appears in the Statistical Review, Text Volume for 1951.

Setting up of National Health Service Central Register

As stated in the previous Review (Text Volume, 1951) the National Health Service adopted the National Registration number for the purpose of its records and also decided to set up a Central Register based on the National Registration records at Southport. As a result of this decision, it was necessary to note the National Registration record of every person who was registered with a doctor under the National Health Service to show the Executive Council area in which the person was living. Started in 1951, this work was virtually completed in 1952, nearly 22,000,000 entries being noted during the year. During the course of noting these entries it was revealed that about 460,000 of the persons on doctors' lists had died, left the country or joined H.M. Forces and over 600,000 were registered with two doctors.

Arrangements were also made for the allocation of N.H.S. numbers to persons entering the National Health Service who had not been included in the National Register, i.e. immigrants, persons released from H.M. Forces and newly born babies.

In the year under review Executive Councils were notified by the Central Register of 1,088,899 exits (about 510,000 deaths, 305,000 enlistments and 275,000 embarkations).

During the course of the year the Central Register dealt with 1,367,320 notifications of ostensible first registrations in the National Health Service. Of these 59,013 persons were found to have been accepted previously by another doctor in the National Health Service. In addition 1,289,037 transfers to a fresh doctor on removal from one Executive Council area to another were dealt with.

The Dental Estimates Board uses the National Health Service number for identity purposes for persons receiving dental treatment. The Register deals with number and other discrepancies referred to it by the Board.

PARLIAMENTARY AND LOCAL GOVERNMENT ELECTORS

Electoral Registers

As required by the Electoral Registers Act and the Representation of the People Act, 1949, a local register based on a canvass is prepared in the autumn of each year, distinguishing between (a) those who are parliamentary and local government electors by virtue of residence on the qualifying date and (b) local government electors who on the qualifying date had a non-resident qualification by occupying as owner or tenant any rateable land or premises of not less than £10 rateable value per occupier. There is also a service register for any members of the 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 is 20th November in England and Wales and the registers must be published not later than 15th March of the following year.

Total Electorate

The particulars recorded in Tables U and V for 1952 have been taken from statements furnished to the Registrar General by the Electoral Registration Officers of the several areas, and relate to the register which came into force on 16th March, 1952.

Table CIV.—Parliamentary and Local Government Electors. England and Wales, 1918 to 1952.

rger after the war.	(including	Parliamentary Regist University Constituer	er ncies to 1948)	ry of Nution	
ent ins ent ins eigndent begnade is	Total	Business Premises qualifications (included in total)	Persons on Absent Voters' List (included in total)	Local Government Register	
1918 (Autumn) 1928 (Autumn) 1929 (Spring) 1939 (Autumn)	17,222,983 19,866,649 25,095,793 28,348,555	159,013 205,793 371,594 354,831	3,362,028 154,432 174,731 168,480	13,930,130 17,179,487 18,620,395 21,685,772	
(Qualifying date in brackets)	Total at qualifying date	Business Premises Register (included in total)	Service Register (included in total)	Local Government Register at qualifying date	
1945 (30th June) 1948 (30th June) 1949 (10th June) 1950 (20th Nov. 1949) 1951 (20th Nov. 1950) 1952 (20th Nov. 1951)	29,368,684 31,629,861 30,173,966 30,206,667 30,392,459 30,472,288	55,164 49,575	2,749,531 284,004 127,334 164,743 216,749 272,264	29,216,823 31,455,419 30,258,862 30,306,024 30,501,106 30,584,434	

Table U refers to Parliamentary and Table V to Local Government electors and elections. From these tables has been extracted the summary in Table CIV showing the total electorate at various dates, selected to demonstrate the changing franchise. Comparison of the registers of 1928 and 1929 shows the effect of the commencement of the Act of 1928, the first to give to women the same franchise as to men, and comparison of the registers of 1939 and 1945 indicates the effect of the Act of 1945, which increased the local government electorate by the addition of those qualified for the parliamentary electorate but previously not entitled to vote at local government elections.

The total Parliamentary Electorate included prior to 1949 plural representation in the case of those persons registered in more than one constituency by reason of their possessing the necessary residence or business qualification or being entitled to be registered in respect of a University constituency.

A person not of full age on the qualifying date but of full age on the following 15th June is to be included on the register though there is no entitlement to vote in any election before 2nd October of the following year. Such persons have been excluded from the table; the 1951 register was the first to be affected in this way.

The percentages which the total parliamentary electorate represented of the estimated total population in 1938 and 1939 and from 1945 to 1952 were:—

1938	1939	1945	1946	1947	1948	1949	1950	1951	1952
68.4	68.4	68.9	72.0	72.6	72.7	68.9	68.6	69·1	69.0

The changes made in Parliamentary franchise between 1939 and 1945-48 did not affect sufficiently large numbers of persons to exert a significant influence on the percentages, but the proportion of minors in the post-war population was lower than in 1939 and a rise of some 1-2 per cent in the electoral proportion was to be expected on this account alone. The low proportion in 1945 is probably to be attributed in part to a degree of incompleteness in the service register of that year. The fall in the proportion in 1949 was probably due to the resumption of canvass methods of compiling the register in place of the machinery of National Registration used from 1944 to 1948.

In contrast the Local Government franchise was made larger after the war. Reference should be made to the Acts concerned, in particular to those of 1928, 1943, 1944 and 1945, for a precise record of the changes made, but in brief the parliamentary qualification had previously been based on residence and the local qualification on occupation of property; the Act of 1945 changed the basis of local qualification to residence or occupation. The change resulted in a substantial rise in the proportion of the total population included in the local electorate from 51.8 per cent and 52.3 per cent in 1938 and 1939 respectively to 71.6 per cent in 1946 and 69.2 in 1952, the latter proportions being virtually the same as those for Parliamentary electors.

Central Index of Service Voters.

The Central Index of Service Voters is maintained at the General Register Office, Southport.

Persons having a service qualification entitling them to make a service declaration to an Electoral Registration Officer and to be included in the Central Index are:—

- (a) any person who is a member of the forces;
- (b) any person who is employed in the service of the Crown in a post outside the United Kingdom;
- (c) any woman who is the wife of a person having a service qualification and is residing outside the United Kingdom to be with her husband.

A service declaration may be made by a person under full age although not yet entitled to be registered or to vote.

During 1952 the Central Index received 136,230 declarations from Electoral Registration Officers, of which 52,016 were in respect of persons under full age. Electoral Registration Officers were notified by Central Index in 1952 of 15,385 declarants who had attained full age during the year. Altogether almost 100,000 new service voters were added to the electoral registers during the year.

In the same period 15,408 declarations by persons under full age were cancelled because they ceased to have a service qualification before attaining full age. Electoral Registration Officers were also notified of 83,469 names of persons whose declarations ceased to be in force because of death, discharge from forces, return from abroad of wives and Government servants, etc.

APPENDIX A

Manner of Solemnization of Marriages of Divorced Persons

Appendix B to the Registrar General's Statistical Review Tables Part II Civil for 1952 contains statistics of all marriages in England and Wales in 1952 according to manner of solemnization.

The following table gives details of the manner of solemnization of marriages where one party or both parties had previously been divorced.

These figures should not be regarded as necessarily showing the relative extent to which the various religious bodies are prepared to remarry divorced persons, and they should be read in conjunction with the total numbers of marriages performed in register offices and places of worship (column 2). It should also be noted that the geographical distribution of the registered buildings of the various denominations has no relation to the distribution of divorced persons. Numbers of registered buildings belonging to the various denominations are shown in the last column of the table.

Marriages of Divorced Persons by Manner of Solemnization, England and Wales, 1952

	Total number of marriages	Marriages of divorced persons	Number of buildings &c., where marriages may be solemnized
(1)	(2)	(3)	(4)
TOTAL	349,308	40,205	
Civil Marriages	106,777	35,349	
Marriages with Religious Ceremony: Total Established Church and Church in Wales Roman Catholics Methodists Congregationalists Baptists Presbyterians Calvinistic Methodists Salvation Army Society of Friends Jews Others	242,531 173,282 33,050 16,640 6,952 5,277 1,806 1,056 361 76 1,876 2,155	4,856 58 241 2,004 1,222 624 306 41 24 5 122 209	*

^{*} It is not necessary for buildings to be registered for the solemnization of marriages according to the rites and ceremonies of the Established Church and the Church in Wales or of Quaker or Jewish marriages.

APPENDIX B

Table 1.—Estimated Total Population by Sex, Age and Marital Condition, England and Wales, Mid-1951

Note.—This is a revised estimate based upon the final data by sex and age from the 1951 census.

(17	h	0	u	S	a	n	â	S

Age	Persons		Ma	ales			Fema	ales	
Group	All Conditions	All Conditions	Single	Married	Widowed and Divorced	All Conditions	Single	Married	Widowed and Divorced
0 5 10	3,729 3,210 2,799	1,910 1,642 1,422	1,910 1,642 1,422	_		1,819 1,568 1,377	1,819 1,568 1,377	_	=
15 20 25 30 35 40	2,765 2,983 3,276 3,126 3,313 3,371	1,395 1,494 1,635 1,547 1,632 1,667	1,387 1,152 577 294 217	8 341 1,050 1,235 1,389 1,454	1 8 18 26 33	1,370 1,489 1,641 1,579 1,681 1,704	1,312 778 358 229 221 239	58 707 1,262 1,307 1,398 1,384	4 21 43 62 81
45 50 65 70 75 and	3,204 2,805 2,433 2,153 1,831 1,428	1,567 1,313 1,089 944 780 592	154 113 84 74 65 50	1,374 1,151 945 785 602 405	39 49 60 85 113 137	1,637 1,492 1,344 1,209 1,051 836	249 224 208 189 162 132	1,277 1,100 900 695 501 308	111 168 236 325 388 396
over All Ages	1,581	21,233	9,368	306 11,045	251 820	977 22,774	9,226	197 11,094	619 2,454

APPENDIX B

Table 2. —(a) Population in thousands at ages 15-50 (b) Annual Marriages at ages under 50 $\}$ 1952. England and Wales

Note.—In section (e), not stated ages have been rateably distributed.

	Age	Population in thousands											•
A; 254		All marital conditions (a)		Married (b)		Non-married (single, widowed and divorced)		Proportion married $[(b) \div (a)]$ (d)		Number of marriages in hundreds (e)		Marriages per 1,000 non-married at each age $[(e) \div (c)]$	
		М	F	М	F	М	F	M	F	M	F	М	F
15- 20- 25- 30- 35- 40- 45- 15- 20-	-25 -30 -35 -40 -45 -50	1,393 1,484 1,592 1,603 1,583 1,659 1,588 10,902 6,262	1,368 1,471 1,590 1,630 1,632 1,697 1,648 11,036 6,323	7 346 1,032 1,287 1,351 1,450 1,394 6,867 4,016	58 720 1,237 1,361 1,368 1,390 1,292 7,426 4,686	1,386 1,138 560 316 232 209 194 4,035 2,246	1,310 751 353 269 264 307 356 3,610 1,637	·0050 ·2332 ·6482 ·8029 ·8534 ·8740 ·8778 ·6299 ·6413	·0424 ·4895 ·7780 ·8350 ·8382 ·8191 ·7840 ·6729 ·7411	82:3 1,414·8 979·2 389·7 194·7 129·6 91·8 3,282·1 2,978·4	532·4 1,668·0 583·1 250·1 147·1 102·1 78·5 3,361·3 2,648·3	5·9 124·3 174·9 123·3 83·9 62·0 47·3 81·3 132·6	40·6 222·1 165·2 93·0 55·7 33·3 22·1 93·1 161·8

APPENDIX C

STATISTICS DIVISION OF THE GENERAL REGISTER OFFICE 1st JANUARY, 1955

Administrative: A. E. Joll, Assistant Secretary and Deputy Registrar General

R. M. Blaikley W. J. Littlewood F. A. Rooke-Matthews

Professional: B. Benjamin, B.Sc., Ph.D., F.I.A., Chief

W. P. D. Logan, M.D., Ph.D., B.Sc., D.P.H. Statisticians.

Miss E. M. Brooke, M.Sc. D. MacKay, M.A., M.B.

A. McKenzie, M.B., B.S., D.T.M. & H.

Miss M. P. Newton, M.A. J. R. L. Schneider, B.Sc.(Econ.)

APPENDIX D

COMMITTEES ON WHICH OFFICERS OF THE GENERAL REGISTER OFFICE SERVED DURING THE YEAR 1952

Accidents in the Home,

Standing Inter-Departmental Committee.

Boundary Commission for England. Boundary Commission for Wales.

Medical Nomenclature and Statistics Committee,

Sub-Committee on the Reporting and Indexing of Hospital Diagnoses.

Sub-Committee on Cancer Registration.

Sub-Committee on Statistics.

Sub-Committee on the Adaptation of the International Statistical Classification to the Needs of the Armed Forces.

Medical Research Council,

Committee for Research on Social and Environmental Health,

Steering Committee on Morbidity Statistics. Sub-Committee on Mass Miniature Radiography.

Ministry of Health,

Working Party on Hospital Statistics.

Working Party on Local Health Authority Statistics.

Ministry of Pensions,

Committee on Cardio-Vascular disease and Mortality rates among Amputees.

National Coal Board,

Advisory Panel on Epidemiology.

National Health Service,

Remuneration of General Medical Practitioners.

International Distribution Committee.

Medical Distribution Committee (England and Wales).

Records Committee.

Organisation for European Economic Co-operation,

Committee of Demographic Experts. Population Investigation Committee. Social and Economic Research, Inter-Departmental Committee.

World Health Organization,

Expert Committee on Health Statistics.

APPENDIX E

ARTICLES BY OFFICERS OF THE GENERAL REGISTER OFFICE PUBLISHED DURING 1952

Benjamin (B.)	People, Jobs and Houses. The Lancet, No. 6725: 125 ff., 1952.
Brooke (E. M.)	Deaths from Rheumatoid Arthritis 1940-1949. Monthly Bulletin of the Ministry of Health, Vol. 11, 57 ff., 1952.
Brooke (E. M.)	Sickness and Incapacity. Monthly Bulletin of the Ministry of Health, Vol. 11, 232 ff., 1952.
Logan (W. P. D.)	Recent Trends of Diphtheria. Monthly Bulletin of the Ministry of Health, Vol. 11, 50 ff., 1952.
Logan (W. P. D.)	Mortality from Coronary and Myocardial Disease in Different Social Classes. <i>The Lancet</i> , No. 6711: 758 ff., 1952.
Logan (W. P. D.)	Distribution of Poliomyelitis by Sex, Age and Geographical Area. <i>Monthly Bulletin of the Ministry of Health</i> , Vol. 11, 147 ff., 1952.
Logan (W. P. D.)	The Use of General Practice Records in Studying Morbidity. <i>Monthly Bulletin of the Ministry of Health</i> , Vol. 11, 224 ff., 1952.

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