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ADMINISTRATIVE COUNTY OF ESSEX.

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# REPORT

OF THE

# MEDICAL OFFICER OF HEALTH

FOR THE YEAR 1940.

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WILLIAM A. BULLOUGH, M.Sc., M.B., D.P.H.

COUNTY MEDICAL OFFICER OF HEALTH.

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CHELMSFORD :

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## P R E F A C E.

*To the Chairman and Members of the Essex County Council.*

I have the honour to submit to you my Twenty-second Annual Report for the Administrative County of Essex for the year 1940.

The belated appearance and the restricted nature of the Report are due to the shortage of staff and to the need for dealing and keeping pace with more urgent matters associated with the war effort.

Every endeavour has been made to preserve the more important records, from which it will be seen that, despite the difficult days through which we have passed, the health of the Administrative County has not been unsatisfactory, and much has been achieved by the many and varied preventive and curative agencies which are centred upon and controlled through the Public Health Department.

Main points from the Statistics for the Administrative County are :—

- (a) Birth-rate increased slightly from 14.6 to 14.8.
- (b) Death-rate increased from 9.9 to 12.3.
- (c) Infant Mortality increased from 36 to 43.
- (d) Maternal Mortality rate remained at 2.6.
- (e) Smallpox was again absent and infectious diseases, except Enteric Fever, were again less prevalent.

Emergency hospital, laboratory and civil defence services which had been superimposed on the peace-time service were developed and proved able to meet the many demands made upon them. Work often had to be carried out in dangerous circumstances, when the various staffs showed marked courage in protecting and evacuating patients. Provision had been made for large numbers of patients suffering from nervous symptoms of a more or less serious character following air raids, but as in other parts of the country the actual numbers of such patients were again very small.

Special reference must also be made to the work undertaken by the Essex Epidemiological Committee (see page 4 of this Report) who have carried out much valuable research work resulting in the issuing of helpful notes for the guidance of health workers in these difficult times.

Throughout the year, the confidence and support of the Chairman and Members of the Public Health and Public Assistance Committees have been a great help to that staff and myself in coping with the many and urgent problems which arose. I am especially indebted to the Medical Officers of Health and other officers of the Local Sanitary Authorities, and to all the members of the Staff of the County Public Health Department, for their ready co-operation and help without which the splendid achievements of 1940 would not have been possible.

W. A. BULLOUGH,  
*County Medical Officer.*

PUBLIC HEALTH DEPARTMENT,  
COUNTY HALL, CHELMSFORD.

31st December, 1941.

## PART I.

### ACREAGE AND POPULATION.

The area of the Administrative County as revised under Section 46 of the Local Government Act, 1929, is shown in the following table, which also sets out particulars of the Registrar-General's estimated population for the year 1940, compared with the census figures of 1931. The table gives, as in previous years, the rateable value and the product of a 1d. rate.

|                         | Revised Areas.          |                             | Registrar-General's<br>Estimated<br>Population, 1940. | Rateable Value,<br>1st April, 1940. |
|-------------------------|-------------------------|-----------------------------|-------------------------------------------------------|-------------------------------------|
|                         | Aeres.<br>Census, 1931. | Population<br>Census, 1931. |                                                       |                                     |
| Municipal Boroughs (13) | 72,450                  | 739,129                     | 763,442                                               | } £10,571,558                       |
| Urban Districts (19) .. | 184,532                 | 265,196                     | 340,808                                               |                                     |
| Rural Districts (11) .. | 702,482                 | 184,679                     | 206,110                                               |                                     |
|                         | 959,464                 | 1,189,004                   | 1,310,360                                             |                                     |

The product of a 1d. rate is estimated at £40,725.

### SOCIAL CONDITIONS.

The social conditions were given in the report for the year 1937.

### VITAL STATISTICS.

The total number of births, still-births, deaths at all ages, etc., is set out in Table VIII, in Part V of the Report. The chief vital statistics of the Administrative County compared with those for England and Wales during 1940, are set out below :—

|                                                         | Essex.     |       | England and Wales. |                |
|---------------------------------------------------------|------------|-------|--------------------|----------------|
|                                                         | 1936-1940. | 1940. | 1936-1940.         | 1940.          |
| Birth-Rate per 1,000 population ..                      | .. 14.6    | 14.8  | 14.9               | 14.6           |
| Death-Rate per 1,000 population ..                      | .. 10.4    | 12.3  | 12.5               | 14.3           |
| Infant Mortality Rate per 1,000 Births                  | .. 43      | 43    | 55                 | 55             |
| Still-Births Rate per 1,000 total live and still-births | 33         | 33    | 39*                | Not available. |

\*Period 1935-1938.

CAUSES OF DEATH are given in Table IX on page 37, the headings of which have been revised by the Registrar-General to coincide with the International List based upon the Fifth Decennial Revision by the International Commission which met in Paris in 1938.

## NOTIFICATION OF INFECTIOUS DISEASES.

A summary of the notifications of infectious diseases in the various Sanitary Districts is set out in Table X on page 38.

### SMALLPOX.

There were again no cases of Smallpox notified during the year 1940.

### ESSEX EPIDEMIOLOGICAL COMMITTEE.

On 15th November, 1940, the Essex Epidemiological Committee which had previously held one Meeting on 1st November, 1939, was revived and has since held monthly meetings. Its membership now consists of:—

- Professor S. P. Bedson, Sector Pathologist.
- Dr. W. T. G. Boul, Medical Officer of Health, Thurrock.
- Dr. W. A. Bullough, County Medical Officer.
- Dr. F. E. Camps, Pathologist, Chelmsford and Essex Hospital.
- Dr. A. W. Downie, Bacteriologist, Ministry of Health.
- Dr. E. V. Suckling, Bacteriologist for Essex.

Terms of Reference adopted by the Committee were "to survey periodically the infectious diseases occurring in the Administrative County of Essex and to consider what steps (if any) should be taken to combat those diseases."

During 1940, special consideration was given to questions affecting the disinfecting of public air raid shelters and the immunisation of hospital staffs against enteric fever, diphtheria and streptococci. Notes were also prepared and issued, for the guidance of Medical Superintendents at Isolation Hospitals, giving recommendations regarding the conditions under which patients should be discharged from such hospitals, with a view to preventing the spread of infection.

### CANCER.

The number of deaths occurring in the County from Cancer during the year 1940 is shown in the table below. The death rate per 1,000 of the population increased from 1.56 in 1939 to 1.66 in the year under review:—

|                                       | Age Period. |    |    |     |     |      | Total. |
|---------------------------------------|-------------|----|----|-----|-----|------|--------|
|                                       | 0—          | 1— | 5— | 15— | 45— | 65—  |        |
| Borough and Urban Districts .. ..     | 3           | 4  | 4  | 156 | 701 | 936  | 1804   |
| Rural Districts .. ..                 | —           | —  | —  | 15  | 115 | 244  | 374    |
| Total for Administrative County .. .. | 3           | 4  | 4  | 171 | 816 | 1180 | 2178   |

By Circular 2062, dated 1st July, 1940, the Minister of Health extended the date before which Local Authorities might submit to him their arrangements under the Cancer Act, 1939, to 31st March, 1942.

## VENEREAL DISEASES.

In January 1941, the County Council succeeded in obtaining the services of Mr. R. H. Boyd, F.R.C.S., as part-time Venereal Diseases Medical Officer, as a partial replacement to Col. J. M. Elliott, the whole-time Venereal Diseases Medical Officer who was mobilised at the outbreak of war. Besides acting as Co-ordinating Officer under the Venereal Diseases Scheme, Mr. Boyd attends the Romford and Colchester V.D. Clinics.

As foreshadowed in the previous year's report, a V.D. Clinic was commenced at Harwich on 19th March, 1941, and is attended by the Medical Officer of Health, Dr. J. Battersby by arrangement with the Harwich Borough Council.

On 17th December, 1940, the Ministry of Health issued Circular 2226, which set out a scheme for the employment by local Authorities of suitably qualified medical practitioners who would give treatment at their own surgeries during normal hours of attendance. The object of this provision is to ensure that treatment facilities are within easy reach of new aggregations of population, particularly in rural areas. Medical practitioners were circularised with a view to ascertaining those qualified or willing to qualify to participate in the scheme, and up to the time of writing there are 12 medical practitioners in various parts of the County available to treat patients suffering from Venereal Diseases. Mr. Boyd, the Venereal Diseases Specialist, is supervising this treatment service.

The County Council continues to participate in the London and Home Counties Scheme, whereby Essex patients attend for advice and treatment at many of the London Hospitals. Clinics are also available as follows :—

Oldchurch County Hospital, Romford ; Essex County Hospital, Colchester ; Chelmsford and Essex Hospital, Chelmsford ; Ad hoc Clinic, Harwich ; East Suffolk and Ipswich Hospital, Ipswich ; Southend Borough Sanatorium, Westcliff-on-Sea ; Ad hoc Clinic, Gravesend ; Prince of Wales Hospital, Tottenham.

### Attendances at Clinics.

On page 6 is set out the usual table giving the number of new patients, attendances at clinics, and number of in-patient days.

### Travelling Facilities.

During the financial year ended 31st March, 1941, fares of necessitous patients to and from the nearest Clinic were paid by the Council at a cost of £53 6s. 4d.

## VACCINATION.

During the year 31st December, 1939 (the latest period for which complete information is available) the Vaccination Officers' returns summarised in Table II show that 18,672 births were registered. Of these, 5,481 were successfully vaccinated and in 9,532 instances a statutory declaration of conscientious objection was made. Of the remaining 3,659 births, 1,035 removed to places unknown, 1,075 removed to

**TABLE I.**  
**TREATMENT OF VENEREAL DISEASE, YEAR 1940.**

| Treatment Centre.            | Patients from all Areas.<br>Total No. treated for first time. | ESSEX PATIENTS                                     |               |             |          |        |        | Total No. of Attendances of Essex Patients. | In-patient Days. |
|------------------------------|---------------------------------------------------------------|----------------------------------------------------|---------------|-------------|----------|--------|--------|---------------------------------------------|------------------|
|                              |                                                               | Total Number treated for first time suffering from |               |             |          |        |        |                                             |                  |
|                              |                                                               | Syphilis.                                          | Soft Chancre. | Gonorrhoea. | Not V.D. | Total. |        |                                             |                  |
| London Hospitals             | ...                                                           | 43                                                 | 1             | 140         | 411      | 595    | 9,900  | 714                                         |                  |
| St. Bartholomew's, London... | ...                                                           | 4                                                  | —             | 2           | 4        | 10     | 80     | 8                                           |                  |
| Romford                      | ...                                                           | 36                                                 | —             | 65          | 91       | 192    | 6,551  | 1,013                                       |                  |
| Obelmsford                   | ...                                                           | 12                                                 | —             | 12          | 25       | 49     | 670    | —                                           |                  |
| Colchester                   | ...                                                           | 9                                                  | —             | 31          | 35       | 75     | 2,989  | 179                                         |                  |
| Ipswich                      | ...                                                           | —                                                  | —             | 4           | 3        | 7      | 215    | 385                                         |                  |
| Southend                     | ...                                                           | 8                                                  | —             | 11          | 7        | 26     | 556    | —                                           |                  |
| Gravesend                    | ...                                                           | 15                                                 | —             | 17          | 20       | 52     | 697    | —                                           |                  |
| Tottenham                    | ...                                                           | 9                                                  | —             | 10          | 23       | 42     | 1,274  | 230                                         |                  |
| Total for 1940...            | ...                                                           | 136                                                | 1             | 292         | 619      | 1,048  | 22,932 | 2,529                                       |                  |
| Total for 1939...            | ...                                                           | 180                                                | 5             | 557         | 1,068    | 1,810  | 44,814 |                                             |                  |
| " 1938...                    | ...                                                           | 184                                                | 8             | 705         | 988      | 1,885  | 60,345 |                                             |                  |
| " 1937...                    | ...                                                           | 174                                                | 6             | 601         | 810      | 1,591  | 63,786 |                                             |                  |
| " 1936...                    | ...                                                           | 157                                                | 14            | 540         | 821      | 1,532  | 67,092 |                                             |                  |

TABLE II.

| Guardians Committee Areas. | No. of Births in "Birth List Sheets" registered 1st Jan. to 31st Dec., 1939. | No. of these Births entered by 31.1.41 in Cols. I, II, IV and V of the "Vaccination Register" (Birth List Sheets), viz. :— |                               |                |                                         |                            | No. of Births which on 31.1.41 remained unentered in the "Vaccination Register" on account of :— |                                                                            |                                                | No. of these Births remaining 31.1.41 neither entered in the "Vaccination Register" nor temporarily accounted for in "Report Book." | No. of Certificates of successful Primary Vaccination of Children under 14 received during 1940. | No. of Statutory Declarations of Conscientious objection received by V. O. during 1940. |
|----------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------|-----------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|                            |                                                                              | Col. I. Successfully vaccinated.                                                                                           | Col. II.                      |                | Col. IV. No. of Statutory Declarations. | Col. V. Died unvaccinated. | Postponement by medical certificate.                                                             | Removal to Districts the Vaccination Officer of which have been appraised. | Removal to places unknown and cases not found. |                                                                                                                                     |                                                                                                  |                                                                                         |
|                            |                                                                              |                                                                                                                            | Insusceptible of vaccination. | Had Small-pox. |                                         |                            |                                                                                                  |                                                                            |                                                |                                                                                                                                     |                                                                                                  |                                                                                         |
| (1)                        | (2)                                                                          | (3)                                                                                                                        | (4)                           | (5)            | (6)                                     | (7)                        | (8)                                                                                              | (9)                                                                        | (10)                                           | (11)                                                                                                                                | (12)                                                                                             | (13)                                                                                    |
| Braintree ..               | 774                                                                          | 234                                                                                                                        | 1                             | —              | 425                                     | 24                         | 3                                                                                                | 15                                                                         | 5                                              | 67                                                                                                                                  | 188                                                                                              | 325                                                                                     |
| Chelmsford ..              | 2,191                                                                        | 753                                                                                                                        | 12                            | —              | 1,047                                   | 37                         | 25                                                                                               | 207                                                                        | 63                                             | 47                                                                                                                                  | 824                                                                                              | 974                                                                                     |
| Colchester ..              | 2,253                                                                        | 723                                                                                                                        | 6                             | —              | 1,183                                   | 55                         | 1                                                                                                | 66                                                                         | 98                                             | 121                                                                                                                                 | 755                                                                                              | 955                                                                                     |
| Epping ..                  | 741                                                                          | 325                                                                                                                        | 8                             | —              | 334                                     | 15                         | 1                                                                                                | 38                                                                         | 18                                             | 2                                                                                                                                   | 169                                                                                              | 304                                                                                     |
| Saffron Walden             | 458                                                                          | 214                                                                                                                        | 5                             | —              | 195                                     | 11                         | 1                                                                                                | 16                                                                         | 14                                             | 2                                                                                                                                   | 247                                                                                              | 173                                                                                     |
| Southern ..                | 6,869                                                                        | 1,891                                                                                                                      | 23                            | —              | 3,442                                   | 219                        | 51                                                                                               | 343                                                                        | 499                                            | 401                                                                                                                                 | 2,241                                                                                            | 2,949                                                                                   |
| South Eastern ..           | 1,941                                                                        | 437                                                                                                                        | 4                             | —              | 1,059                                   | 45                         | 7                                                                                                | 197                                                                        | 54                                             | 138                                                                                                                                 | 409                                                                                              | 891                                                                                     |
| South Western ..           | 3,445                                                                        | 904                                                                                                                        | 12                            | —              | 1,847                                   | 90                         | 28                                                                                               | 193                                                                        | 284                                            | 87                                                                                                                                  | 1,123                                                                                            | 1,498                                                                                   |
|                            | 18,672                                                                       | 5,481                                                                                                                      | 71                            | —              | 9,532                                   | 496                        | 117                                                                                              | 1,075                                                                      | 1,035                                          | 865                                                                                                                                 | 5,956                                                                                            | 8,069                                                                                   |

The Totals of the figures in columns 3 to 11 agree with the figure in Column 2.

districts of other Vaccination Officers who were duly notified ; in 117 cases vaccination was postponed by medical certificate, 71 proved insusceptible to vaccination, and 496 died unvaccinated. At the end of the year 865 births remained which had not been entered in the vaccination register or temporarily accounted for in the report book.

### LABORATORY SERVICE.

Dr. E. V. Suckling, Bacteriologist for Essex, has kindly furnished a comprehensive report upon the work carried out in his laboratory during the year ended 31st December, 1940. This has been summarised as follows :—

#### Group A. Water and Sewage Effluents.

The samples in this group are differentiated as follows :—

|                                     |    |    |       |
|-------------------------------------|----|----|-------|
| Drinking Water                      | .. | .. | 302   |
| Sewage Effluents, Trade wastes etc. | .. | .. | 237   |
| Swimming bath water                 | .. | .. | 6     |
|                                     |    |    | <hr/> |
|                                     |    |    | 545   |
|                                     |    |    | <hr/> |

The total number of samples in this group shows a considerable decrease (296 or 35 per cent) from the already reduced number of last year, and represents little more than one half of the number examined in 1938. It is advisable that an increased rather than a reduced number of samples of water, particularly from public supplies, should be examined under the present emergency conditions.

The samples indicated that the public water supplies of the County continue to maintain a satisfactory standard of purity. As a war emergency measure, increased chlorination of public water supplies is in force.

The results of the clinical examination of sewage effluents and trade wastes indicate that 30 per cent of the samples were unsatisfactory.

#### Group B. Milk, Ice Cream and Foods.

The samples consisted of the following :—

|                           |    |    |       |
|---------------------------|----|----|-------|
| Ordinary or Ungraded Milk | .. | .. | 319   |
| Graded Milk               | .. | .. | 351   |
| Bottles for Cleanliness   | .. | .. | 5     |
| Ice Cream                 | .. | .. | 36    |
| Other Specimens           | .. | .. | 24    |
|                           |    |    | <hr/> |
|                           |    |    | 735   |
|                           |    |    | <hr/> |

The results of the bacteriological examination of the samples were as follows :—

|                                       |    | Satisfactory.<br>% |    | Unsatisfactory.<br>% |
|---------------------------------------|----|--------------------|----|----------------------|
| Ordinary or Ungraded Milk             | .. | 55.6               | .. | 44.4                 |
| Pasteurised Milk                      |    |                    |    |                      |
| (a) Bacteriological                   | .. | 80.5               | .. | 19.5                 |
| (b) Phosphatase Test                  | .. | 98.6               | .. | 1.4                  |
| Accredited and Tuberculin Tested Milk |    | 62.0               | .. | 38.0                 |
| Milk Bottles                          | .. | 100.0              | .. | —                    |
| Ice Cream                             | .. | 64.0               | .. | 36.0                 |

### Groups C, D, and E. Pathological Specimens.

The nature of the specimens and the examinations made are as follows :—

| Specimens.                              | (C)<br>Hospitals,<br>Medical<br>Practitioners<br>etc. | (D)<br>Oldchurch<br>County<br>Hospital. | (E)<br>Public<br>Assistance<br>Institutions. |
|-----------------------------------------|-------------------------------------------------------|-----------------------------------------|----------------------------------------------|
| Throat, Nose, Ears etc. swabs.          | 5,092 ..                                              | 198 ..                                  | 41                                           |
| Cervical & vaginal swabs                | — ..                                                  | 4 ..                                    | 4                                            |
| Sputum                                  | 5,792 ..                                              | 263 ..                                  | 174                                          |
| Urine                                   | 2,308 ..                                              | 50 ..                                   | 203                                          |
| Fæces                                   | 676 ..                                                | 112 ..                                  | 20                                           |
| Blood                                   | 969 ..                                                | 99 ..                                   | 86                                           |
| Pus                                     | 171 ..                                                | 48 ..                                   | 9                                            |
| Cerebro-spinal and other Body<br>Fluids | 609 ..                                                | 190 ..                                  | 60                                           |
| Hair                                    | 77 ..                                                 | —                                       | —                                            |
| Histological Examinations               | 39 ..                                                 | 220 ..                                  | 7                                            |
| Autogenous Vaccines                     | 3 ..                                                  | —                                       | —                                            |
| Animal Inoculation Tests                | 40 ..                                                 | 38 ..                                   | —                                            |
| Miscellaneous                           | 12 ..                                                 | —                                       | —                                            |
|                                         | <u>15,788</u>                                         | <u>1,222</u> ..                         | <u>604</u>                                   |

### Summary of Specimens examined.

A comparative summary for the past four years is given below :—

| Group.                                                                      | 1937.         | 1938.         | 1939.         | 1940.         |
|-----------------------------------------------------------------------------|---------------|---------------|---------------|---------------|
| (A) Water & Sewage Effluents                                                | 688 ..        | 1,039 ..      | 841 ..        | 545           |
| (B) Milk, Ice Cream & foods                                                 | 1231 ..       | 1,358 ..      | 909 ..        | 735           |
| (C) Pathological Specimens<br>from Hospitals Medical<br>Practitioners, etc. | 28,785 ..     | 28,524 ..     | 22,164 ..     | 15,788        |
| (D) Pathological Specimens<br>from Oldchurch County<br>Hospital, Romford.   | 989 ..        | 1,251 ..      | 1,626 ..      | 1,222         |
| (E) Pathological Specimens<br>from Public Assistance<br>Institutions.       | 414 ..        | 792 ..        | 663 ..        | 604           |
| Totals                                                                      | <u>32,107</u> | <u>32,964</u> | <u>26,203</u> | <u>18,894</u> |

The sudden reduction in the number of specimens occurring in September, 1939, was noted in the last report.

The main cause for the decrease of 7,310 as compared with 1939 is seen to occur in Group C, where a decrease of 6,374 pathological specimens is noted. The whole of the reduction lies in the simpler examinations (of swabs and sputum) which jointly show a decrease of over 8,000 while the more time-consuming examinations show in all cases an actual increase. This confirms our experience in the laboratory that, while the total number of specimens had evidently become considerably reduced, the amount of work to be done was not less than formerly; or, in other words, the character of the average examination has become increasingly more complex.

### Other Laboratory Services.

Samples of milk taken from County Council Hospitals and Institutions, farms licensed to produce designated milks, farms producing ordinary milk, central depots, and in course of delivery to the consumer are examined at the following :—

| Laboratory.                             | Examination undertaken.         |
|-----------------------------------------|---------------------------------|
| Essex Institute of Agriculture, Writtle | Bacteriological                 |
| London Chest Hospital, Victoria Park.   | Bacteriological and Biological. |
| Dr. A. L. Sheather, Chorley Wood.       | Biological.                     |

Since the outbreak of war an extended Pathological Laboratory Service has been established by the Ministry of Health which is intended to supplement the peace-time service. The first two Emergency Public Health Laboratories were established at Brentwood and Colchester on the outbreak of war but were closed down in May, 1940.

The present augmented laboratory service consists of Designated Laboratories and Affiliated Laboratories. The "Designated" are mainly new laboratories established by the Ministry of Health, staffed by transferred staff and mostly equipped by transferred equipment. The "Affiliated" are laboratories carrying on with peace-time staff and equipment extended where necessary; they are situated at hospitals in the Emergency Hospital Scheme and therefore are liable to be called upon to do pathological work for casualties.

DESIGNATED LABORATORIES have been established in Essex at the following hospitals :—

- St. Andrew's Hospital, Billericay.
- The Lodge Emergency Hospital, Orsett.
- St. Margaret's Hospital, Epping.
- Essex County Hospital, Colchester.
- Runwell Mental Hospital.
- Harold Wood Hospital.

TABLE III.

SHEWING NUMBER AND TYPE OF PUBLIC HEALTH SPECIMENS EXAMINED BY THE BACTERIOLOGIST FOR ESSEX—YEAR 1940.

| SANITARY DISTRICTS.                                  | Diphtheria. | Sputa.      | Typhoid.   | Ringworm. | General.    | Milk and Ice Cream. | Water.     | Sewage.  | Total Specimens examined. | Biological Examinations. Virulence Test. | Tubercle B. | Histological. |
|------------------------------------------------------|-------------|-------------|------------|-----------|-------------|---------------------|------------|----------|---------------------------|------------------------------------------|-------------|---------------|
| <b>URBAN—</b>                                        |             |             |            |           |             |                     |            |          |                           |                                          |             |               |
| Barking B. . . . .                                   | 118         | 131         | 17         | —         | 41          | 16                  | —          | —        | 331                       | —                                        | —           | —             |
| Benfleet . . . . .                                   | 16          | 30          | —          | —         | 5           | 9                   | 8          | —        | 60                        | —                                        | —           | —             |
| Billerica . . . . .                                  | 170         | 106         | 3          | 1         | 21          | 16                  | —          | —        | 333                       | —                                        | —           | —             |
| Braintree and Bocking . . . . .                      | 62          | 101         | 9          | —         | 123         | 16                  | 16         | —        | 314                       | —                                        | —           | —             |
| Brentwood . . . . .                                  | 129         | 389         | —          | 1         | 24          | 65                  | 3          | —        | 632                       | —                                        | —           | 4             |
| Brightlingsea . . . . .                              | 4           | 2           | —          | —         | —           | —                   | 18         | 6        | 6                         | —                                        | —           | —             |
| Burnham-on-Crouch . . . . .                          | 8           | 2           | —          | —         | 1           | —                   | —          | —        | 11                        | —                                        | —           | —             |
| Canvey Island . . . . .                              | 10          | 6           | —          | —         | 5           | —                   | —          | —        | 21                        | —                                        | —           | —             |
| Chelmsford B. . . . .                                | 165         | 70          | 7          | —         | 111         | 21                  | —          | —        | 374                       | —                                        | —           | —             |
| Chigwell . . . . .                                   | 36          | 50          | 1          | —         | 58          | 32                  | —          | —        | 179                       | —                                        | —           | —             |
| Chingford B. . . . .                                 | 106         | 123         | 36         | —         | 149         | 23                  | 2          | 2        | 439                       | —                                        | —           | —             |
| Clacton-on-Sea . . . . .                             | 22          | 24          | 1          | 2         | 14          | 48                  | 7          | —        | 118                       | —                                        | —           | —             |
| Colchester B. . . . .                                | 6           | 140         | 7          | 3         | 33          | —                   | —          | —        | 189                       | —                                        | —           | —             |
| Dagenham B. . . . .                                  | 121         | 362         | 9          | 11        | 46          | 31                  | 13         | —        | 593                       | 2                                        | 4           | —             |
| Epping . . . . .                                     | 14          | 30          | —          | —         | 65          | 2                   | —          | —        | 111                       | —                                        | —           | —             |
| Frinton and Walton . . . . .                         | 5           | 8           | —          | 1         | 35          | 8                   | 3          | —        | 60                        | —                                        | —           | —             |
| Halstead . . . . .                                   | 14          | 20          | —          | 2         | 21          | —                   | —          | —        | 57                        | —                                        | —           | —             |
| Harwich B. . . . .                                   | 19          | 33          | 1          | —         | 3           | —                   | —          | —        | 56                        | —                                        | —           | —             |
| Hornchurch . . . . .                                 | 166         | 1235        | 5          | 5         | 76          | 50                  | —          | —        | 1537                      | —                                        | —           | —             |
| Ilford B. . . . .                                    | 232         | 498         | 227        | —         | 1379        | 55                  | 7          | 1        | 2399                      | —                                        | —           | —             |
| Leyton B. . . . .                                    | 290         | 301         | 7          | 1         | 57          | 3                   | 3          | —        | 662                       | —                                        | —           | —             |
| Maldon B. . . . .                                    | 63          | 27          | 1          | 5         | 71          | —                   | 2          | —        | 169                       | —                                        | —           | —             |
| Rayleigh . . . . .                                   | 7           | 21          | 2          | 1         | 9           | —                   | —          | —        | 48                        | —                                        | —           | —             |
| Romford B. . . . .                                   | 98          | 270         | 13         | 4         | 129         | 15                  | 17         | —        | 546                       | 3                                        | 2           | —             |
| Saffron Walden B. . . . .                            | 65          | 35          | 1          | —         | 39          | 1                   | 6          | —        | 147                       | —                                        | —           | —             |
| Thurrock . . . . .                                   | 495         | 140         | 189        | 4         | 381         | 81                  | 16         | —        | 1306                      | 5                                        | —           | —             |
| Waltham Holy Cross . . . . .                         | 212         | 40          | 74         | —         | 263         | —                   | —          | —        | 589                       | 1                                        | 25          | 1             |
| Walthamstow B. . . . .                               | 81          | 778         | 36         | 6         | 1352        | 30                  | 6          | —        | 2289                      | —                                        | —           | —             |
| Wanstead and Woodford B. . . . .                     | 96          | 156         | 8          | 1         | 231         | 13                  | —          | —        | 505                       | —                                        | —           | —             |
| West Mersea . . . . .                                | 8           | 13          | 1          | —         | 2           | —                   | 1          | —        | 25                        | —                                        | —           | —             |
| Witham . . . . .                                     | 22          | 12          | —          | —         | —           | —                   | 2          | —        | 36                        | —                                        | —           | —             |
| Wivenhoe . . . . .                                   | 22          | 4           | —          | —         | —           | 2                   | 2          | —        | 30                        | —                                        | —           | —             |
| <b>Total . . . . .</b>                               | <b>2882</b> | <b>5157</b> | <b>655</b> | <b>48</b> | <b>4744</b> | <b>545</b>          | <b>132</b> | <b>9</b> | <b>14172</b>              | <b>11</b>                                | <b>31</b>   | <b>6</b>      |
| <b>RURAL—</b>                                        |             |             |            |           |             |                     |            |          |                           |                                          |             |               |
| Braintree . . . . .                                  | 126         | 49          | 5          | 3         | 81          | —                   | —          | —        | 264                       | —                                        | 18          | 28            |
| Chelmsford . . . . .                                 | 28          | 115         | 3          | —         | 15          | 3                   | 15         | —        | 179                       | —                                        | 2           | —             |
| Dunmow . . . . .                                     | 3           | 30          | 2          | —         | 22          | —                   | 29         | —        | 86                        | —                                        | —           | —             |
| Epping . . . . .                                     | 56          | 39          | 1          | —         | 33          | 13                  | —          | —        | 142                       | —                                        | —           | 4             |
| Halstead . . . . .                                   | 42          | 28          | 1          | —         | 16          | —                   | 5          | —        | 92                        | —                                        | —           | —             |
| Lexden and Winstree . . . . .                        | 24          | 19          | —          | —         | 6           | —                   | —          | —        | 80                        | —                                        | —           | —             |
| Maldon . . . . .                                     | 31          | 37          | —          | 3         | 13          | 6                   | 25         | —        | 89                        | —                                        | —           | —             |
| Ongar . . . . .                                      | 32          | 21          | —          | 1         | 19          | 84                  | 4          | —        | 161                       | —                                        | —           | —             |
| Rochford . . . . .                                   | 59          | 39          | 1          | —         | 28          | —                   | 2          | —        | 129                       | —                                        | —           | 1             |
| Saffron Walden . . . . .                             | 27          | 23          | 1          | —         | 7           | —                   | 20         | —        | 78                        | —                                        | —           | —             |
| Tendring . . . . .                                   | 45          | 25          | —          | 16        | 9           | —                   | 4          | —        | 99                        | —                                        | —           | —             |
| <b>Totals :—</b>                                     |             |             |            |           |             |                     |            |          |                           |                                          |             |               |
| Rural . . . . .                                      | 473         | 425         | 14         | 23        | 249         | 106                 | 109        | —        | 1399                      | —                                        | 20          | 33            |
| Urban . . . . .                                      | 2882        | 5157        | 655        | 48        | 4744        | 545                 | 132        | 9        | 14172                     | 11                                       | 31          | 6             |
| <b>Administrative County . . . . .</b>               | <b>3355</b> | <b>5582</b> | <b>669</b> | <b>71</b> | <b>4993</b> | <b>651</b>          | <b>241</b> | <b>9</b> | <b>15571</b>              | <b>11</b>                                | <b>51</b>   | <b>39</b>     |
| Specimens of Urine L.G. and O.O. Sup. Acts . . . . . |             |             |            |           |             |                     |            |          | 159                       |                                          |             |               |
|                                                      |             |             |            |           |             |                     |            |          | 15730                     |                                          |             |               |

NOTE.—The above figures do not include specimens from the Central Office and from the Oldchurch County Hospital, Romford



AFFILIATED LABORATORIES in Essex are at the following hospitals :—

Essex County Hospital, Black Notley.  
 Essex County Hospital, Broomfield.  
 Oldchurch County Hospital, Romford.  
 St. John's Hospital, Chelmsford.  
 Chelmsford & Essex Hospital, Chelmsford.  
 King George Hospital, Ilford.  
 Brentwood Mental Hospital.  
 Goodmayes Mental Hospital.  
 Claybury Mental Hospital.  
 Whipps Cross Hospital.

A scheme for co-ordinating the Services of the laboratories at hospitals and institutions provided by the Essex County Council has been approved by the Ministry of Health.

### SEWAGE WORKS AND RIVERS POLLUTION.

Table IV on pages 12 and 13 indicates the number of visits to, and the number of samples taken from, Sewage Works, etc.

### MILK SUPPLY.

Milk (Special Designations) Orders, 1936 and 1938.

(a) LICENCES. According to the lists in the Office of the Divisional Inspector of the Ministry of Agriculture and Fisheries, milk was being produced at 1752 farms in the Administrative County of Essex, a reduction of 154. Licences to produce designated milk were granted by the County Council during the year as follows :—

|                               | No. of Farms. |
|-------------------------------|---------------|
| *Tuberculin Tested Milk .. .. | 95 (95)       |
| †Accredited Milk .. ..        | 856 (865)     |
|                               | <hr/>         |
|                               | 951 (960)     |
|                               | <hr/>         |

\*22 were also granted bottling licences.

†39 were also granted bottling licences.

In the above table, the figures in brackets relate to 1939.

Infringements of the Order were considered by the Milk Special Sub-Committee with the following results :—

|                                                      |    |
|------------------------------------------------------|----|
| No. of applications for licences refused .. ..       | 6  |
| No. of licences surrendered .. ..                    | 7  |
| No. of licensees cautioned by the Committee .. ..    | 11 |
| No. of notices of intention to revoke licences .. .. | 25 |
| No. of licences revoked .. ..                        | 10 |

(b) SAMPLES OF DESIGNATED MILK. Shortage of staff caused a marked reduction in the number of samples obtained from 5060 in 1939 to 3073 in 1940. These were submitted to the Methylene Blue Reduction Test, with the following results :—

TABLE IV.

SHOWING SEWAGE WORKS, NUMBER OF VISITS, AND NUMBER OF SAMPLES TAKEN  
DURING THE YEAR 1940.

| Catchment Area. | Sewage Works.              | Sanitary District.              | No. of Visits. | Samples taken.                      |                     |       |
|-----------------|----------------------------|---------------------------------|----------------|-------------------------------------|---------------------|-------|
|                 |                            |                                 |                | No. satisfactory or on border line. | No. unsatisfactory. | Total |
| Beam..          | Romford and Hornchurch Jt. | Romford Borough & Hornchurch U. | 5              | 8                                   | 1                   | 9     |
| Brain           | Braintree                  | Braintree & Bocking U.          | 6              | —                                   | 5                   | 5     |
|                 | White Notley               | Braintree R...                  | 3              | 3                                   | —                   | 3     |
| Blackwater      | Bocking                    | Braintree & Bocking U.          | 3              | 3                                   | —                   | 3     |
|                 | Coggeshall                 | Braintree R...                  | 3              | 2                                   | 1                   | 3     |
|                 | Hatfield Peverel           | Do.                             | 5              | 3                                   | 1                   | 4     |
|                 | Kelvedon                   | Do.                             | 4              | 4                                   | —                   | 4     |
|                 | Silver End                 | Witham U.                       | 3              | 3                                   | —                   | 3     |
|                 | Tillingham                 | Maldon R.                       | 3              | —                                   | 1                   | 1     |
|                 | Tolleshunt Knights         | Do.                             | 2              | —                                   | 2                   | 2     |
|                 | Witham                     | Witham U.                       | 7              | 7                                   | —                   | 7     |
| Cam             | Newport                    | Saffron Walden R.               | 3              | 3                                   | —                   | 3     |
|                 | Saffron Walden             | Saffron Walden B.               | 4              | 1                                   | 2                   | 3     |
| Chelmer         | Chelmsford Jt.             | Chelmsford B. & R.              | 7              | 5                                   | 1                   | 6     |
|                 | Dunmow                     | Dunmow R.                       | 5              | 1                                   | 2                   | 3     |
|                 | Felsted                    | Do.                             | 7              | 5                                   | 1                   | 6     |
|                 | Thaxted                    | Do.                             | 7              | 1                                   | 3                   | 4     |
| Colne           | Earls Colne                | Halstead R.                     | 1              | 1                                   | —                   | 1     |
|                 | Gt. Bentley                | Tendring R.                     | 2              | 1                                   | 1                   | 2     |
|                 | Halstead                   | Halstead U.                     | 4              | 4                                   | —                   | 4     |
|                 | Laver Breton               | Lexden and Winstree R.          | 1              | 1                                   | —                   | 1     |
|                 | Sible Hedingham            | Halstead R.                     | 4              | 1                                   | —                   | 1     |
|                 | Tiptree                    | Lexden and Winstree R.          | 3              | 2                                   | 1                   | 3     |
| Crouch          | Burnham                    | Burnham-on-Crouch U.            | 1              | —                                   | 1                   | 1     |
|                 | Gt. Burstead               | Billericay U.                   | 2              | 2                                   | —                   | 2     |
|                 | Laindon                    | Do.                             | 4              | 1                                   | 1                   | 2     |
|                 | Wickford (Louvaine Avenue) | Do.                             | 4              | —                                   | 4                   | 4     |
| Holland Brook   | Gt. Holland                | Frinton and Walton U.           | 1              | —                                   | 1                   | 1     |
|                 | Thorpe-le-Soken            | Tendring R.                     | 4              | 2                                   | 1                   | 3     |
| Ingrebourne     | Brentwood                  | Brentwood U.                    | 7              | 7                                   | —                   | 7     |
| Kirby Creek     | Kirby-le-Soken             | Frinton and Walton U.           | 2              | 2                                   | —                   | 2     |
| Carried forward |                            |                                 | 117            | 73                                  | 30                  | 103   |

TABLE IV.—continued.

| Catchment Area.                                                                       | Sewage Works.                    | Sanitary District.          | No. of Visits. | Samples taken.                      |                     |        |
|---------------------------------------------------------------------------------------|----------------------------------|-----------------------------|----------------|-------------------------------------|---------------------|--------|
|                                                                                       |                                  |                             |                | No. satisfactory or on border line. | No. unsatisfactory. | Total. |
|                                                                                       | Brought forward .. .. .          |                             | 117            | 73                                  | 30                  | 103    |
| Mardyke ..                                                                            | Bury Farm .. ..                  | Hornchurch U. ..            | 2              | 2                                   | —                   | 2      |
|                                                                                       | Orsett .. ..                     | Thurrock U. ..              | 2              | 1                                   | 1                   | 2      |
|                                                                                       | S. Ockendon .. ..                | Do. ..                      | 3              | 3                                   | —                   | 3      |
| Ramsey ..                                                                             | Dovercourt .. ..                 | Harwich B. ..               | 3              | —                                   | 3                   | 3      |
|                                                                                       | Parkeston .. ..                  | Tendring R. ..              | 2              | —                                   | 2                   | 2      |
|                                                                                       | Ramsey .. ..                     | Do. ..                      | 1              | —                                   | 1                   | 1      |
| Roach ..                                                                              | Gt. Stambridge ..                | Rochford R. ..              | 1              | 1                                   | —                   | 1      |
|                                                                                       | Gt. Wakering ..                  | Do. ..                      | 1              | 1                                   | —                   | 1      |
|                                                                                       | Rayleigh (East) ..               | Rayleigh U. ..              | 2              | 2                                   | —                   | 2      |
| Roding ..                                                                             | Abridge .. ..                    | Ongar R. ..                 | 4              | 3                                   | 1                   | 4      |
|                                                                                       | Chigwell .. ..                   | Chigwell U. ..              | 6              | 4                                   | 1                   | 5      |
|                                                                                       | Chigwell Row ..                  | Do. ..                      | 3              | —                                   | 2                   | 2      |
|                                                                                       | Epping (Southern) ..             | Epping U. ..                | 4              | 3                                   | 1                   | 4      |
|                                                                                       | Moreton .. ..                    | Ongar R. ..                 | 1              | —                                   | —                   | —      |
|                                                                                       | North Weald ..                   | Epping R. ..                | 3              | —                                   | 2                   | 2      |
|                                                                                       | Stanford Rivers ..               | Ongar R. ..                 | 3              | 3                                   | —                   | 3      |
|                                                                                       | Theydon Bois ..                  | Epping R. ..                | 5              | 4                                   | —                   | 4      |
|                                                                                       | Thornwood .. ..                  | Do. ..                      | 3              | 2                                   | 1                   | 3      |
|                                                                                       | Wanstead .. ..                   | Wanstead and Woodford B. .. | 4              | 3                                   | 1                   | 4      |
|                                                                                       | Woodford .. ..                   | Do. ..                      | 4              | 4                                   | —                   | 4      |
| Stort ..                                                                              | Hatfield Heath ..                | Dunmow R. ..                | 3              | 2                                   | —                   | 2      |
|                                                                                       | Hatfield Broad Oak ..            | Do. ..                      | 2              | 1                                   | 1                   | 2      |
| Stour ..                                                                              | Dedham .. ..                     | Lexden and Winstree R. ..   | 3              | 1                                   | 1                   | 2      |
|                                                                                       | Lawford .. ..                    | Tendring R. ..              | 2              | —                                   | 2                   | 2      |
|                                                                                       | Steeple Bumpstead ..             | Halstead R. ..              | 4              | 2                                   | —                   | 2      |
| Sea ..                                                                                | Lt. Oakley .. ..                 | Tendring R. ..              | 2              | 1                                   | —                   | 1      |
|                                                                                       | St. Osyth (East) ..              | Do. ..                      | 3              | 2                                   | 1                   | 3      |
| Wid ..                                                                                | Billericay .. ..                 | Billericay U. ..            | 3              | —                                   | 3                   | 3      |
|                                                                                       | Blackmore .. ..                  | Ongar R. ..                 | 1              | —                                   | 1                   | 1      |
|                                                                                       | Ingatestone .. ..                | Chelmsford R. ..            | 2              | 2                                   | —                   | 2      |
|                                                                                       | Mountnessing .. ..               | Chelmsford R. ..            | 1              | —                                   | 1                   | 1      |
|                                                                                       | Shenfield, Hutton and Ingrave .. | Brentwood U. ..             | 4              | 4                                   | —                   | 4      |
| Other samples, including private sewage works, rivers, streams, ditches, etc. .. .. . |                                  |                             | 26             | 19                                  | 4                   | 23     |
| Trade effluents .. .. .                                                               |                                  |                             | 8              | 4                                   | —                   | 4      |
|                                                                                       |                                  |                             | 238            | 147                                 | 60                  | 207    |

| Quarter ended.    | Total. | No. of Samples. |      | Unsatisfactory<br>No. | %       |
|-------------------|--------|-----------------|------|-----------------------|---------|
|                   |        | Satisfactory.   |      |                       |         |
| 31st March ..     | 666    | 588             | 78   | 11.7                  | (5.9%)  |
| 30th June ..      | 974    | 590             | 384  | 39.4                  | (17.0%) |
| 30th September .. | 786    | 346             | 440  | 55.9                  | (41.2%) |
| 31st December ..  | 647    | 537             | 110  | 17.0                  | (15.9%) |
| Totals ..         | 3073   | 2061            | 1012 | 32.9                  | (16.9%) |

The figures in brackets in the above Table relate to 1939.

Disturbed conditions at the farms due to the war are reflected in the percentages given in the above Table, which are the most unsatisfactory since the inauguration of the Accredited Milk Scheme.

### Biological Examinations.

Samples of milk were obtained and submitted to biological examination, with the results indicated below :—

| Samples taken.                                           | No. found to contain<br>Tubercle bacilli. |            | No. free from<br>Tubercle bacilli. |       | Total. |       |
|----------------------------------------------------------|-------------------------------------------|------------|------------------------------------|-------|--------|-------|
|                                                          | 1940.                                     | 1939.      | 1940.                              | 1939. | 1940.  | 1939. |
| At farms ..                                              | 18 (4.2%)                                 | 88 (5.5%)  | 414                                | 1,446 | 455    | 1,591 |
| At Public Assistance Institutions,<br>Sanatoria, etc. .. | 5 (5.3%)                                  | 9 (4.8%)   | 90                                 | 170   | 95     | 186   |
| Under Milk-in-Schools Scheme ..                          | 17 (4.5%)                                 | 26 (3.5%)  | 364                                | 688   | 385    | 734   |
| Totals ..                                                | 40 (4.3%)                                 | 123 (4.9%) | 868                                | 2,304 | 935    | 2,511 |

Prompt action was taken by the Divisional Inspector of the Ministry of Agriculture and Fisheries to eliminate the cows which were giving tubercle bacilli in the milk.

During the year 11 notifications were received from Medical Officers of Health to the effect that the biological examination of samples of milk from 13 farms within the Administrative County of Essex had revealed the presence of tubercle bacilli. Particulars were transmitted to the Divisional Inspector of the Ministry of Agriculture and Fisheries, who arranged for the usual inspections of the herds at the farms where the milk in question was produced, with a view to eliminating the cows which were giving tubercle bacilli in the milk.

### Milk-in-Schools Scheme.

Samples were obtained and submitted to the following examinations, with the results indicated :—

|                 |                                              |
|-----------------|----------------------------------------------|
| Biological      | 381 (17 or 4.5% contained tubercle bacilli). |
| Bacteriological | 554 (156 or 28.2% were unsatisfactory).      |

# FOOD AND DRUGS ACT, 1938.

I am indebted to the County Analyst for the following information in regard to the work undertaken by him during the year 1940 :—

| Samples taken from Vendors or in course of distribution. | Samples analysed. | Samples unsatisfactory. |
|----------------------------------------------------------|-------------------|-------------------------|
| Administrative County of Essex ..                        | 898               | 94                      |
| Chingford Borough ..                                     | 3                 | —                       |
|                                                          | — 901             |                         |
| Samples taken from Schools or Institutions.              |                   |                         |
| Administrative County of Essex ..                        | 232               | 34                      |
|                                                          | — 232             |                         |
| “Appeal to Cow” Samples.                                 |                   |                         |
| Administrative County of Essex ..                        | 78                | —                       |
|                                                          | — 78              |                         |
|                                                          | 1,211             | 128                     |

The usual details regarding kinds of samples examined have been omitted owing to the need for curtailing this Annual Report.

## MENTAL DEFICIENCY.

The services of Dr. T. P. Puddicombe, Deputy County Medical Officer, have continued to be available both to the Statutory Committee for the Care of the Mental Defective and on application to the Courts of Justice for the examination of, and medical reports on, persons suspected of Mental Defect. Dr. A. R. Forbes, Assistant County Medical Officer, has rendered valuable assistance in this work.

The following table shows the classification of 263 cases examined and individual reports were submitted on each case :—

| Diagnosis.                                  | No. Examined. |             |            | The figures given in Columns (1), (2) and (3) include the following :— |    |        |             |                      |                |          |
|---------------------------------------------|---------------|-------------|------------|------------------------------------------------------------------------|----|--------|-------------|----------------------|----------------|----------|
|                                             |               |             |            | Referred by Justices for Examination.                                  |    |        | Epileptics. | Spastic Tetraplegia. | Hydrocephalus. | Mongols. |
|                                             | Male. (1)     | Female. (2) | Total. (3) | M.                                                                     | F. | Total. |             |                      |                |          |
| Feeble minded .. ..                         | 81            | 56          | 137        | 12                                                                     | 3  | 15     | 6           | —                    | —              | —        |
| Imbeciles .. ..                             | 29            | 22          | 51         | —                                                                      | 1  | 1      | 1           | —                    | 20             | —        |
| Idiots .. ..                                | 7             | 8           | 15         | —                                                                      | —  | —      | 2           | —                    | —              | —        |
| Not Certifiable under the Mental Acts .. .. | 37            | 23          | 60         | 19                                                                     | 18 | 37     | 8           | 1                    | —              | 1        |
| Totals .. ..                                | 154           | 109         | 263        | 31                                                                     | 22 | 53     | 17          | 1                    | 20             | 1        |

Whilst the numbers reviewed during the year show a decrease on the previous year, the waiting list for institutional care continues. When a vacancy does occur it is always a question of selecting the case in most urgent need. The occupational centres referred to in my report for 1939 still remain closed.

The reception homes established at Clacton in 1939 were closed in May 1940, and the remaining patients and staff transferred to Dynes Hall, Halstead. This Home being requisitioned for Military purposes in November 1940, a further transference was made to more suitable quarters, viz., Berden Hall, in the Rural District of Saffron Walden, where a most useful work is being efficiently carried out by the Staff for the ineducable children.

At the end of 1940 the Statutory Committee was responsible for the care and control or supervision of 2240 persons, a decrease of 3 on the previous year, classified under the following headings :—

|                                       | M.    | F.    | Total. |
|---------------------------------------|-------|-------|--------|
| In Institutions .. ..                 | 468   | 371   | 839    |
| Under Statutory Supervision .. ..     | 671   | 568   | 1,239  |
| Under Guardianship .. ..              | 25    | 24    | 49     |
| Under Licence from Institutions .. .. | 57    | 56    | 113    |
| Totals ..                             | 1,221 | 1,019 | 2,240  |

### MENTAL TREATMENT ACT, 1930.

Consultant Psychiatric Clinics have continued to be held by Dr. A. G. Duncan, Medical Superintendent of Severalls Mental Hospital, Colchester, and by Dr. W. G. Masefield, Medical Superintendent of Brentwood Mental Hospital.

Dr. A. G. Duncan reports as follows :—

“ The Psychiatric Clinics continue to be held at Colchester Hospital on Monday afternoons and at Chelmsford Hospital on the second, fourth and fifth Wednesday afternoons of the month. In addition, St. Mary's Hospital, Colchester, and St. John's Hospital, Chelmsford, were visited whenever required. The total number of patients seen during the year was 157, of whom 136 were new cases. In all, 317 attendances were recorded”.

Dr. W. G. Masefield reports as follows :—

“ During 1940 there were 277 attendances at the Out-Patients Clinics. In September the Clinic at Woodford was closed owing to damage by enemy action and the number of cases dealt with at Oldchurch County Hospital was considerably greater than in previous years.”

### BLIND PERSONS ACTS, 1920-1938.

The facilities provided for the certification, medical supervision and general care of the blind have continued under the supervision of the Ophthalmic Specialists.

The whole-time services of Mr. J. H. Young and part-time services of Mr. T. Collyer Summers, Mr. E. J. Baldwin and Mr. J. R. Henderson were available throughout the year.

During the year 444 persons were examined by the Specialists and occupational training given to 40 persons.

On the 31st March, 1941, a total of 2013 (males 965, females 1048) were on the Blind Persons Register. Of these, 1962 (males 933, females 1029) are over 16 years of age. 1691 are classified as unemployable, viz. : males 725, females 966, and of these 17 are in Homes for the Blind, 33 in Mental Hospitals and 51 in Public Assistance institutions.

Of the occupations followed by the Blind Workers, the main occupations show the following numbers :—Mat Makers 28 ; Poultry Keepers 19 ; Piano Tuners 18 ; Music Teachers 7 ; Machine Knitters 18 ; Dealers 15 ; Carpenters 6 ; Telephone Operators 6 ; Boot Repairers 3.

### PROVISION OF HOSPITAL SERVICE.

#### Hospitals.

During the early part of 1940 great progress was made in welding the organisation laid down by the Ministry of Health for the Emergency Hospital Scheme into an effective practical service. By this time Sector 1 Headquarters at Wanstead was firmly established and operational instructions to hospitals had been to a great extent completed.

In the second half of the year a testing out of the hospital scheme for dealing with casualties took place with the commencement of heavy day bombing on the Thames estuary and the Metropolitan areas particularly. It was fortunate that the large numbers of casualties expected when the arrangements were first formulated did not materialise and the service worked smoothly and efficiently. The huttred annexes which had been erected at Black Notley, Chelmsford and Billericay were found to be extremely satisfactory in use. Delays in treating patients when the numbers of admissions were large did not occur in practice and the medical and nursing staffs were able to deal effectively with the casualties in spite of the abnormal circumstances. The advent of night bombing did not make the work of the hospital staffs any easier and the work was often carried out in dangerous circumstances. Considerable modifications in the early treatment of injured patients have taken place as a result of the experience gained, with the consequent improvement in the prospects for the patient's return to a useful life. It had been anticipated that there would be large numbers of patients suffering from nervous symptoms of a more or less serious character following air raids but the actual numbers of such cases were again very small.

A notable advance in the standard of treatment offered by the Essex County Hospital, Wanstead, has taken place largely as a result of war conditions and most of the facilities available at modern acute general hospitals are now present with a corresponding advance in the status of the hospital.

The teaching of medical students in the Oldchurch County Hospital, Romford, Essex County Hospital, Wanstead, St. Andrew's Hospital, Billericay, St. John's Hospital, Chelmsford, St. Margaret's Hospital, Epping, St. Mary's Hospital, Colchester, Essex

County Hospital, Black Notley, and Orsett Lodge Hospital as part of the policy of the London Hospital Medical School proved extremely successful and of indirect advantage to the hospitals concerned. This also has continued with the result that the liaison between the London Hospital and Essex County Council hospitals has now been placed on a firm basis. St. Andrew's Hospital, Billericay, is now particularly closely associated with the London Hospital for this purpose and it would appear that this arrangement will be to the mutual advantage of the hospital and the teaching school in days to come.

With the inevitable shelving of all projected extensions to the peace time hospital service it is noteworthy that the Oldchurch County Hospital, Romford has continued to meet the demands made on it with regard to the treatment of acutely civilian sick together with fulfilling its obligations under the Emergency Hospital Scheme, without undue difficulty.

The Joint Sub-Committee of the Public Health and Housing and Public Assistance Committees appointed to act as a co-ordinating Sub-Committee in regard to the administration of Emergency Hospital Beds held its first meeting on 3rd September, 1940, and met regularly at monthly intervals thereafter. There is no doubt whatever that this Sub-Committee performs an exceedingly useful function in ensuring co-ordinating action upon main principles in all the County Council's Hospitals and Institutions included in the Emergency Scheme.

Figures supplied by the Casualty Bureau established as part of the Emergency Hospital Organisation indicate that at the end of the year there were approximately 4,050 beds in County Council Hospitals and Institutions as compared with 2,882 in the year 1938 (the last year in respect of which complete statistics are available). Of the former number approximately 3,300 were reserved for the reception of casualties and service patients, whilst 750 were specifically available for the reception of the civilian sick.

### **Ambulance Facilities.**

The normal ambulance arrangements in the County have continued to work well and there has been close liaison with the A.R.P. Emergency Ambulance Organisation.

### **Nursing Services.**

(a) CIVIL NURSING RESERVE. In the light of subsequent instructions received from the Ministry of Health, the year 1940 must be looked upon as a period of marking time, pending the formulation of a revised basis of organisation for the Civil Nursing Reserve. This reorganisation was foreshadowed in Circular 1958, dated 25th January 1940, which notified the appointment of Regional Nursing Officers to co-ordinate the work in connection with the local development of the Reserve, and recommending the appointment of some one person to act in the capacity of Organiser, whose main duties would be to encourage recruitment, and to maintain the keenness of existing members. Later, in June 1940, Circular 2068 definitely placed the Reserve on a regional basis, the bulk of the Minister's functions in regard to the registration of members being transferred from the Ministry's Central Offices to the Regional Offices, thus adding considerably to the responsibilities of the Regional Nursing Officers with regard to the administration of the Reserve.

The Local Emergency Committee for the Nursing Profession met on six occasions during the year.

Statistics submitted to the Ministry of Health on the 31st March, 1941, indicate that there were 1,809 members on the Essex Register (335 Trained Nurses, 216 Assistant Nurses, and 1,258 Nursing Auxiliaries). At that date, members of the Civil Nursing Reserve, including those on loan from other areas, were employed as follows, in Essex :—

| Category.                    | Employed at<br>Emergency<br>Hospitals. | Employed at<br>First Aid<br>Posts. | Employed in<br>Reception<br>Areas. | Total. |
|------------------------------|----------------------------------------|------------------------------------|------------------------------------|--------|
| Trained Nurses. . . . .      | 187                                    | 79                                 | 5                                  | 271    |
| Assistant Nurses. . . . .    | 143                                    | Nil.                               | 2                                  | 145    |
| Nursing Auxiliaries. . . . . | 222                                    | 370                                | 6                                  | 598    |
|                              | 552                                    | 449                                | 13                                 | 1,014  |

In addition to the above, a large number of members on the Essex register had to reinforce to "stand by," because they were only available for service of an immobile nature, and there were no vacancies for them in the particular areas in which they wished to work.

In accordance with the request received from the Ministry of Health, Refresher Courses were arranged during the year for a number of Trained Nurses on the register who had been "standing by" for a considerable period.

As noted above, the reorganisation of the Civil Nursing Reserve included the appointment of an Organiser. This matter was considered at great length by the Local Emergency Committee throughout the year under review, but it was felt that the work of organising the Reserve in Essex was of such proportions that it was unfair to expect the work to be done by an unpaid Organiser, in accordance with the suggestion of the Ministry of Health. Towards the end of the year, Miss Ruck indicated that she would not be able to undertake all the additional work required in connection with the reorganisation of the Reserve, and it was therefore decided to approach the Ministry of Health, with a view to obtaining authority for the appointment of a full-time paid Organiser. The necessary authority was received early in 1941, and Miss H. R. Stock, S.R.N., took up duties in the capacity of Organiser and Secretary on the 15th April, 1941.

Whilst a report in regard to her duties should properly form part of the Report for the year 1941, it is nevertheless felt that as the present report could only be prepared towards the end of 1941, the following statement should be included in this Report :—

One of her first duties, arising out of the issue of Ministry of Health Circular 2340 was to visit all Employment Exchanges in the area, and to acquaint Managers and interviewing Officers of the Ministry of Labour and National Service of the procedure to be followed in regard to women who wished to take up nursing as a profession, or as a part-time occupation. The opportunity was taken to give these Officers a general idea of the needs of the area, so far as nursing and domestic staff in hospitals was

concerned. This work has steadily progressed since that time, it having been found necessary to keep in constant touch with some officers of the Ministry of Labour and the National Service on the matter.

The Officers of the Ministry of Labour have been most helpful and have shown themselves anxious to assist in every way. The flow of recruits from Employment Exchanges has steadily increased throughout the year, and during the months of November and December, 1941, there was an increase of 200 per cent. This, to some extent, was no doubt due to the operation of the Registration for Employment Order, and to government propaganda in regard to women's part in the war effort.

During the summer months of 1941, recruiting meetings were held at Wanstead and in the Metropolitan Area of the County, and at Brentwood. It cannot be said that these meetings were a success: they were poorly attended, and the actual number of recruits obtained from them was negligible.

In October, 1941, a very successful Exhibition of Nursing was held at the South West Essex Technical College, Walthamstow. This was well attended, but only 30 direct recruits were obtained as a result of the Exhibition. Since then, however, the number of candidates from the Walthamstow area has considerably increased.

In connection with the showing of the Ministry of Information "Short" entitled "Hospital Nurse," in November and December, 1941, the Managers of all Cinemas in the County were circularised, and, without exception, willingly co-operated in this propaganda effort. Where facilities were available, a nurse was in attendance in the vestibule of the Cinema whilst the film was being shown, posters were displayed, and leaflets were distributed. The direct result of the showing of this film was extremely poor, in all instances, but it is hoped that, as in the case of the Nursing Exhibition at Walthamstow, it will lead to an increase in the number of candidates coming forward for training and enrolment.

Since the issue of Circular 2340, 7 intensive courses of instruction have been held at various hospitals in the County, 102 candidates attended these courses of instruction, and as a result, 91 Nursing Auxiliaries have been enrolled.

(b) GENERAL. The position in regard to the County Council's Hospital and Institutional Nursing Staff may be considered to have been generally satisfactory throughout the year. The arrangements in connection with the Emergency Medical Services created a grave shortage of nurses, but on the whole, it may be said that there was always an adequate number of nurses to care for the patients actually under treatment at any one time. This was no doubt due to the fact that the number of casualties following upon intensive air raids was much fewer than had been anticipated. There is no doubt that a serious situation would have arisen if the worst anticipations of those in a position to judge had been realised.

Together with the reorganisation of the Civil Nursing Reserve noted above, the Ministry of Health made an endeavour to place the nursing services of the country on a more satisfactory basis, by suggesting in a circular issued early in the year 1941, that the remuneration of nurses should be brought up to a definite standard.

Fortunately, the County Council had in 1938, reviewed their salary scale for nursing staffs and raised the standard generally in regard to the terms and conditions

of service, so that in considering the Ministry's circular very little amendment was required to bring them into line with the Ministry's suggestion, the only scales which were affected being as follows :—

| Category.                          | Old Scale.        | Revised Scale. |
|------------------------------------|-------------------|----------------|
| Staff Nurses ..                    | £80 x £7 10s.—£95 | £95            |
| Assistant Nurses<br>(Untrained) .. | £50 x £5—£65      | £60 x £5—£65   |
| Probationer Nurses ..              | £30 x £5—£40      | £40 x £5—£50   |

The County Council also decided to make representations to the Ministry of Health and the General Nursing Council, with a view to Training Schools attached to Voluntary and Municipal Hospitals in the County being enabled to admit an additional number of probationers in excess of the present numbers, and for the recognition of certain upgraded County Hospitals as affiliated Training Schools. Definite progress in this connection has been made so far as an interchange of probationers between the Chelmsford and Essex Hospital and the St. John's Hospital, Chelmsford, is concerned.

Also, application has been made to the General Nursing Council for the recognition of the Essex County Hospital, Wanstead, as a Training School. An inspection of the Hospital has been made, and the decision of the General Nursing Council is awaited.

The Education Committee were also requested to continue the negotiations with the Board of Education, and the General Nursing Council, with a view to the scheme for pre-entry courses for girls entering the Nursing Profession being approved. The progress made in this connection will be dealt with in next year's report.

It has also been decided to extend the existing Scheme for the Training of Assistant Nurses.

### **Sick Bays.**

It has been found necessary to establish Sick Bays for unaccompanied evacuated children who, although not sufficiently ill to justify admission to hospital, temporarily require more care and attention (rest in bed, special diets, baths, dressings, etc.) than foster-parent can reasonably be expected to provide. It has also been found necessary since the commencement of enemy air attack to make available Sick Bay accommodation for the immediate reception of bombed out persons for whom ordinary Rest Centre accommodation is inadequate because of minor sickness, infirmity and severe degrees of shock.

The existing facilities under the above two categories are as follows :—

#### *1. Sick Bays for Unaccompanied Evacuees.*

*Campions, Harlow.* (12 beds).

*Child Haven, Hutton.* (12 beds).

This is a Convalescent Home run by the East Ham Mission, and an arrangement exists, with the approval of the Ministry of Health, whereby 12 beds are available for sick evacuees.

## 2. *Sick Bays for Homeless Persons.*

*Beechlands, 42 Alderton Hill, Loughton.*

Opened September, 1940. Accommodation for up to 28 shocked, frail or infirm homeless persons. There is a trained Sister in charge.

The following have since been opened during the year 1941 :—

*Holmhurst, Manor Road, Loughton.*

Has been established with the assistance of a voluntary Committee under the Chairmanship of Sir Fowell Buxton, to give temporary accommodation to 30 aged homeless persons. A fully trained nurse is not in charge at this Sick Bay as it is being used exclusively for aged persons who are not bedridden or requiring strict medical supervision.

*Brookfield Orthopædic Hospital, Oak Hill, Woodford Green.*

This hospital has now been converted into a Sick Bay for 30 chronic and infirm aged persons rendered homeless. A state Registered Nurse is in charge.

At the time of writing arrangements are being made to open the following :—

*5, Forest Drive West, Leyton,*

With the assistance of a Committee of local volunteers headed by Rev. Harrington this house has been adapted as a Sick Bay to accommodate 12 homeless persons.

*Michaelstow Hall, Ramsey.*

To serve the Rest Centres of Harwich and to accommodate 6 persons.

The 4 Sick Bays in the Metropolitan area will serve the whole of the London Region of Essex on a mutual assistance basis and fulfil the quota of 100 beds asked for by the Regional Commissioner.

In addition to the above ad hoc Sick Bays, accommodation has been set aside in the first line Rest Centres in the London Region and in the vulnerable towns in the Eastern Region for the purpose of giving a little extra privacy and attention to a small number of homeless persons using the Rest Centres. These provisions usually consist of 3 or 4 beds in a separate room, with a few comfortable chairs and washing facilities and simple medical stores and comforts.

The British Red Cross and St. John Joint War Organisation and the Women's Voluntary Services have rendered invaluable assistance by providing volunteer nurses and helpers in all the above Sick Bays and supplying many valuable gifts of medical requisites and dressings, articles of clothing and other comforts which have been much appreciated by the homeless sick.

## CIVIL DEFENCE CASUALTY SERVICES.

The organisation of the Casualty Services, which was so carefully planned, and for which buildings, vehicles and personnel were prepared during 1938 and 1939, have, during the year 1940 been tried out in practically all parts of the county.

The response, when the emergency arose, was excellent, and a tribute should be paid to the splendid work done by all the personnel, whole-time and part-time of these services. In London Regional Essex all Services have worked through intensive raiding, and in many parts of Eastern Regional Essex too, the Services have worked thorough, and dealt with the results of, enemy action. The organisation has not been found lacking.

Owing to the "calling up" and registration regulations, a large number of personnel has been lost to the Civil Defence Services, and the number of part-time volunteers has markedly decreased. In fact the lack of volunteers is a serious handicap in many areas. In order to overcome to some extent this problem, the Ministry of Home Security has issued instructions that the personnel of Rescue and First Aid Parties should be interchangeable, and the special training to this end is now going on in all areas.

The Ambulance Service under the direction of the County Ambulance Officer is most effective, and has dealt with casualties in an outstanding manner, during many incidents, and at times under great difficulties. In addition to these duties carried out during or immediately after raiding, large numbers of patients have been transferred by ambulance under the Hospital Evacuation Scheme.

The majority of First Aid Posts, both Fixed and Mobile, are now under the charge of a State-Registered or Trained Nurse, who is responsible through the Medical Officer in charge of the post to the local Medical Officer of Health. The arrangement has produced a remarkable improvement in the efficiency of the Posts and the keenness of the personnel.

During the early months of 1941, the first rounds of a competition for Mobile First Aid Posts were held at the Essex County Hospital, Black Notley. The final round, in which 9 Mobile First Aid Posts competed, was held in July, 1941, and the shield presented by Major A. P. W. Wedd, O.B.E., J.P., C.A., County Controller, was won by Colchester Mobile First Aid Post No. 1.

In the original organisation of the A.R.P. Services, 200 First Aid Points were located and sited in Eastern Regional Essex. These Points are manned entirely by part-time unpaid volunteers, and in the majority of cases considerable amounts of stores and equipment have been provided for the Points as a result of voluntary effort. The First Aid Points have come to be considered an important part of the Civil Defence Services. Training has gone ahead and exercises have been arranged for the Point personnel as a part of the combined training plan in each area and in conjunction with the special training for Mobile First Aid Posts.

Training, individual, team and combined, goes on continuously, and monthly returns of the position in each area are returned to the County Training Officer. Particular stress has been laid on Team Training for First Aid Parties, and in First Aid Posts. As part of the Combined Training a number of successful exercises have been arranged in co-operation with the Ministry and Home Guard.

As stated in the last report, the Medical Stores and Equipment for the Casualty Services have been taken over by the County Equipment Officer. His organisation deals with this most important side of Civil Defence with great efficiency and success.

Routine inspection and supervision of the Casualty Service are considered to be of great importance, and many detailed inspections of the area have been carried out by Officers of the Scheme-making Authority.

General administration work has in no way lessened. Indeed the number of circulars from Government Departments seems to increase during each quiet period. The closest liaison is maintained between Officers dealing with the Civil Defence Services, and those responsible for the E.M.S. and Homeless Persons Schemes, thus proving by experience that the combined Services are capable of dealing with the emergencies which have so far occurred in the County of Essex.

The following figures may be of interest :—

#### First Aid Posts.

|                          |                            |    |     |
|--------------------------|----------------------------|----|-----|
| (i) Fixed :              | (a) London Regional Essex  | .. | 39  |
|                          | (b) Eastern Regional Essex | .. | 60  |
| (ii) Mobile :            | (a) London Regional Essex  | .. | 6   |
|                          | (b) Eastern Regional Essex | .. | 27  |
| First Aid Points :       | ..                         | .. | 193 |
| First Aid Party Depots : | ..                         | .. | 54  |
| Ambulance Depots :       | ..                         | .. | 65  |

| Personnel.             |    | Whole-time. | Part-time. | Total.        |
|------------------------|----|-------------|------------|---------------|
| Fixed First Aid Posts  | .. | 1,260       | 2,589      | 3,849         |
| Mobile First Aid Posts | .. | 272         | 223        | 495           |
| First Aid Points       | .. | —           | —          | 1,930 approx. |
| First Aid Parties      | .. | 734         | 1,087      | 1,821         |
| Ambulance Services     | .. | 1,345       | 982        | 2,327         |

| Vehicles.            |    | Whole-time | Part-time | Total. |
|----------------------|----|------------|-----------|--------|
| Ambulances           | .. | 342        | 113       | 455    |
| Sitting Case Cars    | .. | 221        | 244       | 465    |
| First Aid Party Cars | .. | 107        | 137       | 244    |

## PART II.

### TUBERCULOSIS.

There seems to no doubt that the adopted policy of allowing Tuberculosis Schemes to continue to function to their fullest practical capacity during the war period is essential if serious set-backs to the national effort to combat this disease are to be avoided.

In Essex, with the exception of a real difficulty in obtaining sufficient institutional accommodation for patients suffering from the disease in its more or less advanced stages, the Tuberculosis Scheme has in no way been restricted during the year. Rather has the Scheme expanded with the opening of the new Essex County Hospital, Broomfield, with 300 beds entirely reserved for tuberculosis, and also the various measures laid down by the Government for dealing with the tuberculosis problem as it affects the Services.

The following details of the work done under the Scheme only give interesting salient features :—

#### Notifications of Tuberculosis.

**TABLE V.**

#### PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1930.

(a) A summary of the notifications made in the Administrative County of Essex during the period 1st January, 1940, to 31st December, 1940, is given below :—

|                        | FORMAL NOTIFICATIONS.                               |    |    |     |     |     |     |     |     |     |     |                     | Total<br>Notifi-<br>cations. |
|------------------------|-----------------------------------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|---------------------|------------------------------|
|                        | Primary Notifications of New Cases of Tuberculosis. |    |    |     |     |     |     |     |     |     |     |                     |                              |
|                        | Age Periods.                                        |    |    |     |     |     |     |     |     |     |     |                     |                              |
|                        | 0—                                                  | 1— | 5— | 10— | 15— | 20— | 25— | 35— | 45— | 55— | 65— | Total<br>(all ages) |                              |
| Pulmonary, Males ..    | —                                                   | 6  | 8  | 11  | 47  | 68  | 180 | 126 | 108 | 59  | 26  | 639                 | 689                          |
| „ Females ..           | 1                                                   | 6  | 11 | 14  | 65  | 73  | 145 | 72  | 35  | 18  | 8   | 448                 | 498                          |
| Non-Pulmonary, Males.. | —                                                   | 25 | 28 | 22  | 17  | 4   | 9   | 4   | 3   | 2   | 2   | 116                 | 131                          |
| „ „ Females            | 2                                                   | 22 | 31 | 14  | 18  | 11  | 15  | 14  | 4   | 1   | 8   | 140                 | 158                          |

(b) The following summary shows the new cases which came to the knowledge of the Medical Officers of Health during the above-mentioned period, otherwise than by formal notification :—

|                      | Age periods. |    |    |     |     |     |     |     |     |     |     | Total. |
|----------------------|--------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
|                      | 0—           | 1— | 5— | 10— | 15— | 20— | 25— | 35— | 45— | 55— | 65— |        |
| Pulmonary, Males     | —            | —  | —  | 1   | 2   | 14  | 29  | 28  | 9   | 11  | 6   | 100    |
| „ Females            | —            | 2  | 1  | —   | 5   | 13  | 47  | 8   | 7   | 6   | 1   | 90     |
| Non-Pulmonary, Males | 1            | 1  | 4  | 3   | 5   | 1   | 1   | 1   | —   | —   | —   | 17     |
| „ Females            | —            | 2  | 4  | 5   | 3   | 2   | 5   | —   | 2   | —   | 1   | 24     |

The sources from which information as to the afore-mentioned cases was obtained are shown below :—

| Source of Information.                                        | No. of Cases. |                |
|---------------------------------------------------------------|---------------|----------------|
|                                                               | Pulmonary.    | Non-Pulmonary. |
| Death Returns { from local Registrars                         | 21            | 6              |
| { transferable deaths from Registrar-General                  | 1             | —              |
| Posthumous Notifications                                      | 14            | 1              |
| “Transfers” from other areas (other than transferable deaths) | 139           | 30             |
| Other Sources. (Form 1-9) (Form 2-10)                         | 15            | 4              |

TABLE VI.

SHOWING ATTACK AND DEATH-RATES FROM TUBERCULOSIS IN THE ADMINISTRATIVE COUNTY OF ESSEX.

| YEAR.   | Pulmonary Tuberculosis.  |                              |         |                              | Non-Pulmonary Tuberculosis. |                              |         |                              | Tuberculosis (All Forms). |                              |         |                              |
|---------|--------------------------|------------------------------|---------|------------------------------|-----------------------------|------------------------------|---------|------------------------------|---------------------------|------------------------------|---------|------------------------------|
|         | Noti-<br>fica-<br>tions. | Rate<br>per<br>1,000<br>Pop. | Deaths. | Rate<br>per<br>1,000<br>Pop. | Noti-<br>fica-<br>tions.    | Rate<br>per<br>1,000<br>Pop. | Deaths. | Rate<br>per<br>1,000<br>Pop. | Noti-<br>fica-<br>tions.  | Rate<br>per<br>1,000<br>Pop. | Deaths. | Rate<br>per<br>1,000<br>Pop. |
| 1912-16 | Not                      |                              | 851     | 0.86                         | Not                         |                              | 269     | 0.27                         | Not                       |                              | 1120    | 1.13                         |
| 1917-21 | avail-<br>able.          |                              | 752     | 0.89                         | avail-<br>able.             |                              | 199     | 0.24                         | avail-<br>able.           |                              | 951     | 1.13                         |
| 1922-26 | 1110                     | 1.16                         | 656     | 0.69                         | 320                         | 0.34                         | 148     | 0.15                         | 1430                      | 1.50                         | 804     | 0.84                         |
| 1927-31 | 1110                     | 1.00                         | 710     | 0.64                         | 382                         | 0.34                         | 141     | 0.13                         | 1492                      | 1.34                         | 851     | 0.77                         |
| 1932-36 | 1145                     | 0.89                         | 644     | 0.50                         | 391                         | 0.30                         | 131     | 0.10                         | 1536                      | 1.19                         | 775     | 0.60                         |
| 1937    | 1157                     | 0.84                         | 603     | 0.44                         | 369                         | 0.27                         | 123     | 0.09                         | 1526                      | 1.11                         | 726     | 0.53                         |
| 1938    | 1207                     | 0.87                         | 581     | 0.42                         | 449                         | 0.32                         | 116     | 0.08                         | 1656                      | 1.19                         | 697     | 0.50                         |
| 1939    | 1072                     | 0.77                         | 627     | 0.45                         | 295                         | 0.21                         | 99      | 0.07                         | 1367                      | 0.98                         | 726     | 0.52                         |
| 1940    | 1087                     | 0.83                         | 632     | 0.48                         | 256                         | 0.19                         | 98      | 0.07                         | 1343                      | 1.02                         | 730     | 0.56                         |

It will be seen from the above Table that there is a slight increase in both attack and death rates for pulmonary tuberculosis. There would seem little doubt that this is mainly due to the decrease in population, but it should be mentioned that during the year there were 60 notifications received from the Ministry of Health relating to Service men discharged from the Forces with tuberculosis.

In order to eliminate, as far as possible, men joining the Forces who are suffering or have suffered from tuberculosis, the Public Health (Tuberculosis) Regulations, 1940, were brought into operation during the year. Under these Regulations, particulars are supplied by the local Medical Officer of Health to the County Medical Officer of Health, of all notified cases of tuberculosis in each age group as they are called for registration. These particulars are then transmitted to the appropriate Ministry of Labour and National Service, with added information concerning any up-to-date details of treatment provided or being provided for the men in question.

These Regulations, coupled with the arrangements mentioned in the Annual Report for 1939, namely, the reference by Medical Boards to the Local Tuberculosis Officer of any suspected case of tuberculosis, should greatly assist in keeping out of the Forces any men who in all probability would sooner or later break down with the disease and possibly become a charge on the country with a pension for tuberculosis, which was not strictly speaking, attributable to war service.

Despite the foregoing efforts, however, there are a number of "known" cases of tuberculosis getting into the Forces, and it is a matter for consideration as to whether some definite machinery should be set up which would make it possible to obtain the immediate discharge of such men.

**TABLE VII.**  
NOTIFICATION REGISTER.

|                                                                                                                                                                    | Pulmonary. |         |       | Non-Pulmonary. |         |       | Total Cases. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-------|----------------|---------|-------|--------------|
|                                                                                                                                                                    | Males.     | Females | Total | Males          | Females | Total |              |
| Number of cases of Tuberculosis remaining at the 31st December, 1940, on the Registers of Notifications kept by District Medical Officers of Health in the County. | 3933       | 3420    | 7353  | 1658           | 1562    | 3220  | 10,573       |

Table VII shows the number of notified cases on the Registers of Medical Officers of Health at the end of 1940. The total number 10,573, is 58 less than the total for the end of 1939. In view of the slightly increased attack rate it would have been expected that the total number on the notification Registers would have increased. The decreased number, however, is undoubtedly due to the number of notified cases which have left the County owing to war conditions.

#### Dispensaries.

The following particulars supply some of the more interesting figures of work done during the year :—

|                                                                            | No.    |
|----------------------------------------------------------------------------|--------|
| Definite cases on the Dispensary Register at the beginning of 1940 .. .. . | 5,421  |
| Definite cases on the Register at the end of 1940 ..                       | 5,831  |
| New cases examined during the year .. .. .                                 | 4,249  |
| New cases found non-tuberculous .. .. .                                    | 3,042  |
| Dispensary attendances .. .. .                                             | 20,079 |
| Home visits paid by the Health Visitors .. .. .                            | 24,933 |

There are 27 Dispensaries and Visiting Stations in the County, and with the exception of a slight variation in the times of sessions to meet "black-out" difficulties all these Dispensaries have continued to maintain full working capacity during the year. Air-Raid "alerts" seem to have made little difference in the number of patients attending the Dispensaries, there being only approximately 1,700 less attendances than in 1939.

During the year, the X-Ray apparatus at the Harold Court Sanatorium was transferred to the Ilford Dispensary. The installation of this X-Ray plant at the Dispensary enabled an artificial pneumo-thorax refill clinic to be commenced. Whilst the arrangements previously in force in the district, whereby the facilities at the King George Hospital, Ilford, were utilised for both X-rays and an artificial pneumo-thorax clinic, were invaluable, there is an unquestionable advantage both to the Tuberculosis Officer and the patients in having such facilities within the precincts of the Dispensary.

There are now two Dispensaries in the County, namely Walthamstow and Ilford, each with their own X-ray apparatus and artificial pneumo-thorax refills clinics, and it is hoped that, when conditions are more favourable, it will be possible to arrange for other Dispensaries in suitable districts to be similarly equipped.

Strenuous efforts have been made to keep in touch with the patients, who, for various reasons connected with the war, change their addresses. Medical records are transmitted to the new areas as soon as the new address becomes known. It seems apparent that a number of patients will have to be regarded as "lost sight of," but experience tends to shew that within a reasonable time, most patients make themselves known in their new district by calling at the local Tuberculosis Dispensary.

During 1940, the records of 460 patients were sent out of the County, and the records of 474 patients were received in the County. These figures do not necessarily mean a definite exchange of patients, but include patients who moved out of the County, and later returned to their former districts.

### **Institutional Treatment.**

As foreshadowed in the Annual Report for 1939, it became possible to reclaim a number of beds previously surrendered for E.M.S. purposes, and by the end of 1940 there were 830 beds occupied. This number of beds, however, did not meet the waiting list demands, and further efforts continue to be made to secure additional beds.

The greatest difficulty was to find sufficient suitable accommodation for the patients suffering from moderate or advanced disease. Home conditions, particularly in the extra-metropolitan area, made it extremely advisable to arrange for these patients to enter institutions wherever possible, and thereby avoid the great danger of spreading infection by their occupation of either family or public air raid shelters.

The Ilford Borough Council agreed to not only re-open the 20 beds in the Tuberculosis Pavilion at the Ilford Isolation Hospital, which had been vacated on the outbreak of hostilities, but also made available approximately 50 extra beds.

The opening of the Essex County Hospital, Broomfield, in May, 1940, did not, as was anticipated, solve the problem. Although it was decided to fill only 200 of the

00 available beds at this Hospital in the first instance, it soon became apparent that the full 300 beds were needed. Despite many difficulties, mainly in respect to adequate nursing staff, the Hospital was filled to its capacity of 300 beds by October, 1940. All the beds at this Hospital were intended for the reception of male patients suffering from both pulmonary and non-pulmonary tuberculosis and for whom some definite form of treatment was possible. Owing to the acute shortage of beds for the patients in the more advanced stages of the disease, it was regretted that this was not possible, and many patients were admitted for whom only careful nursing and segregation were required.

Although it was originally intended that the Harold Court Sanatorium should be closed when the Essex County Hospital, Broomfield, was opened, the lengthy waiting list and the impossibility of obtaining additional accommodation elsewhere, made such action inadvisable. The Harold Court Sanatorium was no longer needed for the "early" case, and consequently, certain adaptations were carried out to make the institution suitable for female patients suffering from the disease in the more advanced stages.

This accommodation, and a re-organisation of the available institutional accommodation, made it possible to slightly reduce the extent of the shortage of beds for advanced cases, but a very difficult waiting list always remained.

An interesting feature of the work of both the County Hospitals at Black Notley and Broomfield is that the work in the surrounding districts, including the taking of admissions in the Dispensaries serving the districts, is undertaken by the Hospital Staff under the direction of the Medical Superintendent. There are many obvious advantages in the arrangement, as the facilities of a modern hospital are at the disposal of the doctors undertaking the district work.

During 1940, there were 1542 admissions to Institutions under the Tuberculosis scheme.

#### After-care Associations.

Although the activities of these voluntary Associations have been somewhat curtailed owing to the war, and in some districts difficulty has been experienced in raising funds from voluntary sources, nevertheless, it is pleasing to record that not one of the Associations has ceased to function. Most of the assistance afforded by these associations has been in the form of extra nourishment, but there have been many other items of expenditure, *e.g.*, purchase of clothing, payment of relatives' travelling expenses, etc. The amounts involved in these items of expenditure may not be very large, but often prove a great boon to the recipients.

## PART III.

### MATERNITY AND CHILD WELFARE.

The various Maternity and Child Welfare Schemes, full details of which have been given in previous reports, were continued during the year.

**COUNTY AREA.** The area remains the same as in the previous year.

The maternal mortality rate of the County Council's Child Welfare Area according to figures supplied by the Registrar-General is 2.8 as compared with the rate of 2.2 for the Administrative County and 2.16 for England and Wales.

The estimated population, number of births, etc., in the County Council's Child Welfare Area are given below :—

|       | Estimated Population. | No. of Births notified by— |                   | No. of Births Unnotified. | No. of Notifications of— |                        |                  |
|-------|-----------------------|----------------------------|-------------------|---------------------------|--------------------------|------------------------|------------------|
|       |                       | Midwives.                  | Drs. and Parents. |                           | Puerperal Pyrexia.       | Ophthalmia Neonatorum. | Maternal Deaths. |
| Total | 519880                | 4653                       | 1737              | 208                       | 63                       | 15                     | 19               |

**MATERNITY AND CHILD WELFARE CENTRES, ANTE-NATAL CLINICS, ETC.** During the year the following new Clinics were established :—Child Welfare Centres at Loughton (Roding Estate), Loughton (Goldings Hill), Rivenhall, Chingford (Friday Hill), and an Ante-Natal Clinic at Chingford (Friday Hill), also a Women's Welfare Clinic at Burnham-on-Crouch.

#### Provision of Milk and Medicaments.

The Ministry of Food National Milk Scheme came into operation on 1st July, 1940 whereby all expectant and nursing mothers and children under 5 years of age can obtain milk either free, according to their financial circumstances, or at 2d. per pint. This to a large extent superseded the County Council's ordinary Maternity and Child Welfare Provision of Milk Scheme for expectant and nursing mothers and children under 5 years of age. It was possible, however, where for medical reasons more than 1 pint of milk per day was recommended by the Child Welfare Medical Officer, for a supplementary supply to be provided under the County Council's ordinary Provision of Milk Scheme but this provision ceased when the Sale of Milk (Restriction) Order, 1941, came into operation on 12th April, 1941.

In August, 1940, the Ministry of Food arranged for National Dried Milk to be available for infants under the age of 1 year, under the same scheme.

#### Puerperal Pyrexia Regulations, 1939.

Copies of notifications made by medical practitioners were received from Medical Officers, as indicated below :—

|                      | Administrative County. |       | C.C. Child Welfare Area. |       |
|----------------------|------------------------|-------|--------------------------|-------|
|                      | 1939.                  | 1940. | 1939.                    | 1940. |
| Puerperal Pyrexia .. | 304                    | 249   | 71                       | 63    |

## Public Health (Ophthalmia Neonatorum) Regulations 1926-1937.

During the year 1940, 45 cases of Ophthalmia Neonatorum were notified in the Administrative County. 15 of the above notifications related to patients living in the County Child Welfare Area and the following particulars of these patients have been obtained :—

| Treated  |              | Vision Unimpaired. |    | Vision Impaired. |    | Total Blindness. |    | Deaths. |
|----------|--------------|--------------------|----|------------------|----|------------------|----|---------|
| At Home. | In Hospital. | R.                 | L. | R.               | L. | R.               | L. |         |
| 9        | 6            | 15                 | 15 | —                | —  | —                | —  | —       |

### Treatment of Orthopaedic Patients.

As far as children of school age are concerned, these are dealt with in the School Medical Officer's Annual Report.

In connection with children under the age of 5 years, during the year 1940, 9 patients received Hospital in-patient treatment, 905 attendances were made at After-treatment Centres and 330 examinations were carried out by the Orthopaedic Surgeons.

### Obstetric Specialist.

On 1st January 1941, Mr. Alan Brews, M.D. M.S., M.R.C.P., F.R.C.O.G. (London), R.C.S. (England), was appointed as Part-time Obstetric Specialist, to undertake the following duties :—

To organise and supervise the County Council's Maternity and Child Welfare Scheme and in this connection :—

- to assist medical practitioners when required in any case of doubt or difficulty during the ante-natal period, confinement or puerperium ;
- to establish and conduct in parts of the County approved by the County Medical Officer ante-natal and post-natal clinics to which patients may be referred by general practitioners or from the routine ante-natal and post-natal clinics ;
- to exercise clinical supervision over the in-patient treatment of certain of the maternity patients for whom the Local Authority assumes responsibility ;
- to be responsible for the emergency domiciliary service for cases of grave obstetric abnormality in which removal to hospital is contra-indicated (*e.g.* certain cases of shock, eclampsia or hæmorrhage) ;
- to assist the County Medical Officer in the confidential investigation of the circumstances associated with each maternal death occurring in the area ;
- to undertake such other duties as may be required by the County Council.

### Nursing Homes.

The number of Registered Homes at the end of the year was as follows :—

|     |                                               |    |    |    |    |
|-----|-----------------------------------------------|----|----|----|----|
| (a) | Maternity Homes only                          | .. | .. | .. | 20 |
| (b) | Maternity and Nursing Homes                   | .. | .. | .. | 25 |
| (c) | Nursing Homes (including Convalescent Homes). | .. | .. | .. | 16 |

Routine inspections have been carried out at regular intervals during the year and all Homes were found to be satisfactory.

### Child Life Protection.

At the end of the year there were 654 registered foster children in the care of 314 foster mothers.

### Midwifery Service.

Particulars are given below of the number of midwives employed under the County Scheme at the end of the year 1940, together with the number of cases attended during the year.

|                             | Midwifery. | Maternity. |
|-----------------------------|------------|------------|
| 19 County Council Midwives  | .. 780     | .. 256     |
| 23 Welfare Council Midwives | .. 1,012   | .. 458     |

Arrangements are in force for these midwives to undergo a course of training in Gas and Air Analgesia at the Oldchurch County Hospital, Romford, and up to the present four County Council Midwives have completed the course. Consideration will be given in due course to District Nurse Midwives and independent Midwives undergoing the course.

### Doctors' Fees.

By circular 1999 dated 1st May, 1940, the Ministry of Health issued revised Regulations in pursuance of Sub-Section (1) of Section 9 of the Midwives Act, 1936, fixing the Scale of Fees to be paid to medical practitioners called in by Midwives under Section 14 of the Midwives Act, 1918, such scale to operate from 1st June, 1940. These Regulations increase the fees payable in the majority of cases.

### General.

Arrangements have been continued whereby Mrs. B. G. Richardson, the Domestic Science Teacher, gives lectures at Child Welfare Centres particularly in regard to War-time Economy Cooking, and in November 1940, she gave an interesting lecture concerning the National Food Education Campaign to members of the Medical, Nursing and Midwifery Staffs.

### Improvised Maternity Homes and Residential Nurseries.

In the report for the year 1939, full details were given in regard to the establishment of improvised Maternity Homes for evacuated expectant mothers, and the transfer of Residential Nurseries to Essex.

## (a) IMPROVISED MATERNITY HOMES.

(i) *Writtle Park, near Chelmsford.* (30 beds).

This Home was closed on a care and maintenance basis on 4th July, 1940, but with the approval of the Ministry of Health it was re-opened on 14th September, 1940, in consequence of the evacuation of refugees from East London into Essex. From the 14th September, 1940, to the end of the year 103 patients were admitted.

(ii) *Hill Hall, Theydon Mount, near Epping.* (45 beds).

Owing to enemy action it was necessary to arrange for this Maternity Home to be evacuated to Newport Pagnell, Buckinghamshire, on the 4th November, 1940. From the 1st January, 1940, to the date of transfer 605 patients were admitted to Hill Hall.

(iii) *Danbury Park, near Chelmsford.* (20 beds).

In June, 1940, Danbury Park ceased to be utilised as an Improved Maternity Home under the Government Evacuation Scheme and arrangements were made between the County Council and Mrs. Wigan, whereby ordinary residents of Essex can be admitted under the County Scheme to this Maternity Home. Since 17th June, 1940, to the end of the year, 91 County Council patients were admitted. In addition 45 patients were admitted from other areas.

## (b) EVACUATED NURSERY PARTIES.

(i) *St. Paul's Residential Nursery, London Docks.*

This Nursery, which was divided into two parties, continues to operate satisfactorily at Walden Place, Saffron Walden, where there is accommodation for 12 children. The second half of this party was on 31st August, 1940, transferred from the White House, Ongar, to "Chivers," Stondon Massey and on 30th September, 1940, to Shudy Camps Park, near Cambridge.

(ii) *St. Luke's Residential Nursery, Holloway, London.*

As indicated in last year's report, this Nursery is now housed at Newton Hall, Dunmow, and has continued satisfactorily during the year. There is accommodation for 45 children.

(iii) *5a, High Street, Saffron Walden.*

This Residential Nursery has accommodation for 10 children from 2 to 5 years of age who, during the daytime, attend the Nursery School which has been established at the Friends' Meeting House, Saffron Walden.

## Day-time Nurseries.

On 31st May, 1941, the Ministry of Health and Board of Education issued a joint circular in which Welfare Authorities are requested to investigate the need in their

area for (a) part-time Nurseries providing primarily for the care and training of children between the ages of two and five and will be usually open during school hours and (b) whole-time Nurseries for full day-time care and maintenance of children of all ages up to five and will possibly remain open from twelve to fifteen hours per day.

Full details of the results of the investigation and action taken will be given in later reports.

### COMBINED MEDICAL SERVICE.

On the resignation of Dr. Agnes V. Kelynack as Assistant County Medical Officer and Assistant Medical Officer of Health for the Urban District of Thurrock, Dr. Kyng was appointed in a temporary capacity but owing to illness his appointment was terminated on 31st January, 1941, and the vacancy has since been filled by Dr. Florence G. Richards.

## PART IV.

### PUBLIC ASSISTANCE.

#### Hospital Services.

So far as the Public Assistance Hospital Services are concerned, there is nothing to add to the remarks contained under the heading of "Provision of Hospital Service" (see page 17), as the Institutions under control of the Public Assistance Committee continue to play their part in the Emergency Hospital Scheme.

#### Domiciliary Medical Services.

As briefly indicated in last year's report, the Free Choice of Doctor Scheme was further extended during the year. Prolonged discussions with the interests concerned, however, delayed the introduction of the Scheme to all areas to which it was intended to apply it. Arrangements were completed for the Scheme to operate in the Rayleigh Medical Relief District as from 1st April, 1940, and in the Frinton and Walton Medical Relief Districts as from 1st October, 1940, but so far as the areas mentioned below are concerned, it was not possible to commence the operation of the Scheme until 1st January, 1941:—Braintree, Chelmsford, Colchester, Saffron Walden, South-Eastern area, and the Boroughs of Barking and Dagenham in the Southern area.

It may be said that the Free Choice of Doctor Scheme and the District Medical Services generally have worked smoothly during the year, apart from the inevitable difficulties and dislocations caused by the requirements of the Fighting Services for medical personnel and the consequent loss of medical practitioners from civilian service. An added responsibility has of course been thrust upon the Services by the operation of the Government Evacuation Scheme, and during the year the Ministry of Health asked for a review of the present services to consider whether, in the new circumstances, extended arrangements were required. It was felt that no special action was called for in this connection, as the existing services were adequate.

Consideration was given to the difficulties which might arise in connection with the existing medical arrangements in the event of any serious disruption which might be caused by enemy action, but it was felt that there should be no difficulty in guaranteeing attendance on Public Assistance patients, should the premises of one or more doctors assisting in the services, be destroyed; the Relieving Officer being a useful link in the chain for the purpose of passing on Public Assistance cases to some other doctor in the district. It was visualised that the main difficulty would be in rural districts, but here the problem was of such a nature that it was considered desirable to deal with any situation of this description as and when it arose.

As from 1st October, 1940, the scale of extra medical fees was amended to conform with the revised and increased scale of fees payable under the Midwives Acts to medical practitioners for attendance and treatment in midwifery cases.

It is with regret that the death is recorded during the year of Dr. C. H. Panting, of Leytonstone, who, in addition to being a participant in the Free Choice of Doctor Scheme in the Walthamstow and Chingford Medical Relief Districts, had, in his capacity as Secretary of the Local Committee of the British Medical Association, rendered invaluable assistance in the inauguration of the Scheme in the Metropolitan area of the County.

THE NEW WORLD

The discovery of America by Christopher Columbus in 1492 marked the beginning of a new era in world history. It opened up vast new territories for exploration and settlement, leading to the establishment of colonies and the eventual formation of new nations. The influx of goods and resources from the New World transformed European economies and societies, paving the way for the Age of Exploration and the subsequent global trade networks.

The early years of settlement were marked by challenges and hardships. Colonists faced unfamiliar climates, diseases, and conflicts with indigenous populations. Despite these difficulties, the spirit of adventure and the promise of wealth drove many to venture across the Atlantic. The establishment of permanent settlements laid the foundation for the future development of the Americas.

As the colonies grew, they began to develop their own unique identities. The diverse backgrounds of the settlers, including Europeans, Africans, and Native Americans, created a complex and evolving social fabric. The struggle for independence from European rule became a central theme in the history of the New World, culminating in the American Revolution and the birth of the United States.

The legacy of the New World continues to shape the modern world. The cultural, linguistic, and political influences of the early settlers are still evident in the Americas and beyond. The exploration and settlement of the New World remain a testament to human curiosity and the quest for discovery.





TABLE IX.  
CAUSES OF DEATH—YEAR 1940  
(Figures supplied by the Registrar-General).

(Figures supplied by the Registrar-General)

37

| SANTARY DISTRICT. |  | Typhoid & Typhoid Fevers. | Cerebro-Spinal Fever. | Scarlet Fever. | Whooping Cough. | Diphtheria. | Tuberculosis of Respiratory System. | Other forms of Tuberculosis. | Syphilis Diseases. | Influenza. | Measles. | Acute Noto-Medullitis. | Poli-Encephalitis. | Scarlet Eruptions. | Cancer of Stomach & Duodenum. | Cancer of Breast. | Cancer of other organs. | Bilectia. | Intera-Cranial Vascular Disease. | Heart Disease. | Other Diseases of Unidentified System. | Rheumatism. | Parasitism. | Other Eruptive Diseases. | Dysentery or Stomach or Bowel Disease. | Dysentery (under 2 years). | Appendicitis. | Other Infective Diseases. | Syphilis. | Pneumonia and Post-Operative Erysipelas. | Other Material Causes. | Pneumonia Birth. | Congenital Malformations with Injury to Internal Organs. | Scoliosis. | Road Traffic Accidents. | Other Violent Causes. | TOTAL. | Attacks (included in Column 30). |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     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|-------------------|--|---------------------------|-----------------------|----------------|-----------------|-------------|-------------------------------------|------------------------------|--------------------|------------|----------|------------------------|--------------------|--------------------|-------------------------------|-------------------|-------------------------|-----------|----------------------------------|----------------|----------------------------------------|-------------|-------------|--------------------------|----------------------------------------|----------------------------|---------------|---------------------------|-----------|------------------------------------------|------------------------|------------------|----------------------------------------------------------|------------|-------------------------|-----------------------|--------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---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| URBAN.            |  | (1)                       | (2)                   | (3)            | (4)             | (5)         | (6)                                 | (7)                          | (8)                | (9)        | (10)     | (11)                   | (12)               | (13)               | (14)                          | (15)              | (16)                    | (17)      | (18)                             | (19)           | (20)                                   | (21)        | (22)        | (23)                     | (24)                                   | (25)                       | (26)          | (27)                      | (28)      | (29)                                     | (30)                   | (31)             | (32)                                                     | (33)       | (34)                    | (35)                  | (36)   | (37)                             | (38) | (39) | (40) | (41) | (42) | (43) | (44) | (45) | (46) | (47) | (48) | (49) | (50) | (51) | (52) | (53) | (54) | (55) | (56) | (57) | (58) | (59) | (60) | (61) | (62) | (63) | (64) | (65) | (66) | (67) | (68) | (69) | (70) | (71) | (72) | (73) | (74) | (75) | (76) | (77) | (78) | (79) | (80) | (81) | (82) | (83) | (84) | (85) | (86) | (87) | (88) | (89) | (90) | (91) | (92) | (93) | (94) | (95) | (96) | (97) | (98) | (99) | (100) | (101) | (102) | (103) | (104) | (105) | (106) | (107) | (108) | (109) | (110) | (111) | (112) | (113) | (114) | (115) | (116) | (117) | (118) | (119) | (120) | (121) | (122) | (123) | (124) | (125) | (126) | (127) | (128) | (129) | (130) | (131) | (132) | (133) | (134) | (135) | (136) | (137) | (138) | (139) | (140) | (141) | (142) | (143) | (144) | (145) | (146) | (147) | (148) | (149) | (150) | (151) | (152) | (153) | (154) | (155) | (156) | (157) | (158) | (159) | (160) | (161) | (162) | (163) | (164) | (165) | (166) | (167) | (168) | (169) | (170) | (171) | (172) | (173) | (174) | (175) | (176) | (177) | (178) | (179) | (180) | (181) | (182) | (183) | (184) | (185) | (186) | (187) | (188) | (189) | (190) | (191) | (192) | (193) | (194) | (195) | (196) | (197) | (198) | (199) | (200) | (201) | (202) | (203) | (204) | (205) | (206) | (207) | (208) | (209) | (210) | (211) | (212) | (213) | (214) | (215) | (216) | (217) | (218) | (219) | (220) | (221) | (222) | (223) | (224) | (225) | (226) | (227) | (228) | (229) | (230) | (231) | (232) | (233) | (234) | (235) | (236) | (237) | (238) | (239) | (240) | (241) | (242) | (243) | (244) | (245) | (246) | (247) | (248) | (249) | (250) | (251) | (252) | (253) | (254) | (255) | (256) | (257) | (258) | (259) | (260) | (261) | (262) | (263) | (264) | (265) | (266) | (267) | (268) | (269) | (270) | (271) | (272) | (273) | (274) | (275) | (276) | (277) | (278) | (279) | (280) | (281) | (282) | (283) | (284) | (285) | (286) | (287) | (288) | (289) | (290) | (291) | (292) | (293) | (294) | (295) | (296) | (297) | (298) | (299) | (300) | (301) | (302) | (303) | (304) | (305) | (306) | (307) | (308) | (309) | (310) | (311) | (312) | (313) | (314) | (315) | (316) | (317) | (318) | (319) | (320) | (321) | (322) | (323) | (324) | (325) | (326) | (327) | (328) | (329) | (330) | (331) | (332) | (333) | (334) | (335) | (336) | (337) | (338) | (339) | (340) | (341) | (342) | (343) | (344) | (345) | (346) | (347) | (348) | (349) | (350) | (351) | (352) | (353) | (354) | (355) | (356) | (357) | (358) | (359) | (360) | (361) | (362) | (363) | (364) | (365) | (366) | (367) | (368) | (369) | (370) | (371) | (372) | (373) | (374) | (375) | (376) | (377) | (378) | (379) | (380) | (381) | (382) | (383) | (384) | (385) | (386) | (387) | (388) | (389) | (390) | (391) | (392) | (393) | (394) | (395) | (396) | (397) | (398) | (399) | (400) | (401) | (402) | (403) | (404) | (405) | (406) | (407) | (408) | (409) | (410) | (411) | (412) | (413) | (414) | (415) | (416) | (417) | (418) | (419) | (420) | (421) | (422) | (423) | (424) | (425) | (426) | (427) | (428) | (429) | (430) | (431) | (432) | (433) | (434) | (435) | (436) | (437) | (438) | (439) | (440) | (441) | (442) | (443) | (444) | (445) | (446) | (447) | (448) | (449) | (450) | (451) | (452) | (453) | (454) | (455) | (456) | (457) | (458) | (459) | (460) | (461) | (462) | (463) | (464) | (465) | (466) | (467) | (468) | (469) | (470) | (471) | (472) | (473) | (474) | (475) | (476) | (477) | (478) | (479) | (480) | (481) | (482) | (483) | (484) | (485) | (486) | (487) | (488) | (489) | (490) | (491) | (492) | (493) | (494) | (495) | (496) | (497) | (498) | (499) | (500) | (501) | (502) | (503) | (504) | (505) | (506) | (507) | (508) | (509) | (510) | (511) | (512) | (513) | (514) | (515) | (516) | (517) | (518) | (519) | (520) | (521) | (522) | (523) | (524) | (525) | (526) | (527) | (528) | (529) | (530) | (531) | (532) | (533) | (534) | (535) | (536) | (537) | (538) | (539) | (540) | (541) | (542) | (543) | (544) | (545) | (546) | (547) | (548) | (549) | (550) | (551) | (552) | (553) | (554) | (555) | (556) | (557) | (558) | (559) | (560) | (561) | (562) | (563) | (564) | (565) | (566) | (567) | (568) | (569) | (570) | (571) | (572) | (573) | (574) | (575) | (576) | (577) | (578) | (579) | (580) | (581) | (582) | (583) | (584) | (585) | (586) | (587) | (588) | (589) | (590) | (591) | (592) | (593) | (594) | (595) | (596) | (597) | (598) | (599) | (600) | (601) | (602) | (603) | (604) | (605) | (606) | (607) | (608) | (609) | (610) | (611) | (612) | (613) | (614) | (615) | (616) | (617) | (618) | (619) | (620) | (621) | (622) | (623) | (624) | (625) | (626) | (627) | (628) | (629) | (630) | (631) | (632) | (633) | (634) | (635) | (636) | (637) | (638) | (639) | (640) | (641) | (642) | (643) | (644) | (645) | (646) | (647) | (648) | (649) | (650) | (651) | (652) | (653) | (654) | (655) | (656) | (657) | (658) | (659) | (660) | (661) | (662) | (663) | (664) | (665) | (666) | (667) | (668) | (669) | (670) | (671) | (672) | (673) | (674) | (675) | (676) | (677) | (678) | (679) | (680) | (681) | (682) | (683) | (684) | (685) | (686) | (687) | (688) | (689) | (690) | (691) | (692) | (693) | (694) | (695) | (696) | (697) | (698) | (699) | (700) | (701) | (702) | (703) | (704) | (705) | (706) | (707) | (708) | (709) | (710) | (711) | (712) | (713) | (714) | (715) | (716) | (717) | (718) | (719) | (720) | (721) | (722) | (723) | (724) | (725) | (726) | (727) | (728) | (729) | (730) | (731) | (732) | (733) | (734) | (735) | (736) | (737) | (738) | (739) | (740) | (741) | (742) | (743) | (744) | (745) | (746) | (747) | (748) | (749) | (750) | (751) | (752) | (753) | (754) | (755) | (756) | (757) | (758) | (759) | (760) | (761) | (762) | (763) | (764) | (765) | (766) | (767) | (768) | (769) | (770) | (771) | (772) | (773) | (774) | (775) | (776) | (777) | (778) | (779) | (780) | (781) | (782) | (783) | (784) | (785) | (786) | (787) | (788) | (789) | (790) | (791) | (792) | (793) | (794) | (795) | (796) | (797) | (798) | (799) | (800) | (801) | (802) | (803) | (804) | (805) | (806) | (807) | (808) | (809) | (810) | (811) | (812) | (813) | (814) | (815) | (816) | (817) | (818) | (819) | (820) | (821) | (822) | (823) | (824) | (825) | (826) | (827) | (828) | (829) | (830) | (831) | (832) | (833) | (834) | (835) | (836) | (837) | (838) | (839) | (840) | (841) | (842) | (843) | (844) | (845) | (846) | (847) | (848) | (849) | (850) | (851) | (852) | (853) | (854) | (855) | (856) | (857) | (858) | (859) | (860) | (861) | (862) | (863) | (864) | (865) | (866) | (867) | (868) | (869) | (870) | (871) | (872) | (873) | (874) | (875) | (876) | (877) | (878) | (879) | (880) | (881) | (882) | (883) | (884) | (885) | (886) | (887) | (888) | (889) | (890) | (891) | (892) | (893) | (894) | (895) | (896) | (897) | (898) | (899) | (900) | (901) | (902) | (903) | (904) | (905) | (906) | (907) | (908) | (909) | (910) | (911) | (912) | (913) | (914) | (915) | (916) | (917) | (918) | (919) | (920) | (921) | (922) | (923) | (924) | (925) | (926) | (927) | (928) | (929) | (930) | (931) | (932) | (933) | (934) | (935) | (936) | (937) | (938) | (939) | (940) | (941) | (942) | (943) | (944) | (945) | (946) | (947) | (948) | (949) | (950) | (951) | (952) | (953) | (954) | (955) | (956) | (957) | (958) | (959) | (960) | (961) | (962) | (963) | (964) | (965) | (966) | (967) | (968) | (969) | (970) | (971) | (972) | (973) | (974) | (975) | (976) | (977) | (978) | (979) | (980) | (981) | (982) | (983) | (984) | (985) | (986) | (987) | (988) | (989) | (990) | (991) | (992) | (993) | (994) | (995) | (996) | (997) | (998) | (999) | (1000) | (1001) | (1002) | (1003) | (1004) | (1005) | (1006) | (1007) | (1008) | (1009) | (1010) | (1011) | (1012) | (1013) | (1014) | (1015) | (1016) | (1017) | (1018) | (1019) | (1020) | (1021) | (1022) | (1023) | (1024) | (1025) | (1026) | (1027) | (1028) | (1029) | (1030) | (1031) | (1032) | (1033) | (1034) | (1035) | (1036) | (1037) | (1038) | (1039) | (1040) | (1041) | (1042) | (1043) | (1044) | (1045) | (1046) | (1047) | (1048) | (1049) | (1050) | (1051) | (1052) | (1053) | (1054) | (1055) | (1056) | (1057) | (1058) | (1059) | (1060) | (1061) | (1062) | (1063) | (1064) | (1065) | (1066) | (1067) | (1068) | (1069) | (1070) | (1071) | (1072) | (1073) | (1074) | (1075) | (1076) | (1077) | (1078) | (1079) | (1080) | (1081) | (1082) | (1083) | (1084) | (1085) | (1086) | (1087) | (1088) | (1089) | (1090) | (1091) | (1092) | (1093) | (1094) | (1095) | (1096) | (1097) | (1098) | (1099) | (1100) | (1101) | (1102) | (1103) | (1104) | (1105) | (1106) | (1107) | (1108) | (1109) | (1110) | (1111) | (1112) | (1113) | (1114) | (1115) | (1116) | (1117) | (1118) | (1119) | (1120) | (1121) | (1122) | (1123) | (1124) | (1125) | (1126) | (1127) | (1128) | (1129) | (1130) | (1131) | (1132) | (1133) | (1134) | (1135) | (1136) | (1137) | (1138) | (1139) | (1140) | (1141) | (1142) | (1143) | (1144) | (1145) | (1146) | (1147) | (1148) | (1149) | (1150) | (1151) | (1152) | (1153) | (1154) | (1155) | (1156) | (1157) | (1158) | (1159) | (1160) | (1161) | (1162) | (1163) | (1164) | (1165) | (1166) | (1167) | (1168) | (1169) | (1170) | (1171) | (1172) | (1173) | (1174) | (1175) | (1176) | (1177) | (1178) | (1179) | (1180) | (1181) | (1182) | (1183) | (1184) | (1185) | (1186) | (1187) | (1188) | (1189) | (1190) | (1191) | (1192) | (1193) | (1194) | (1195) | (1196) | (1197) | (1198) | (1199) | (1200) | (1201) | (1202) | (1203) | (1204) | (1205) | (1206) | (1207) | (1208) | (1209) | (1210) | (1211) | (1212) | (1213) | (1214) | (1215) | (1216) | (1217) | (1218) | (1219) | (1220) | (1221) | (1222) | (1223) | (1224) | (1225) | (1226) | (1227) | (1228) | (1229) | (1230) | (1231) | (1232) | (1233) | (1234) | (1235) | (1236) | (1237) | (1238) | (1239) | (1240) | (1241) | (1242) | (1243) | (1244) | (1245) | (1246) | (1247) | (1248) | (1249) | (1250) | (1251) | (1252) | (1253) | (1254) | (1255) | (1256) | (1257) | (1258) | (1259) | (1260) | (1261) | (1262) | (1263) | (1264) | (1265) | (1266) | (1267) | (1268) | (1269) | (1270) | (1271) | (1272) | (1273) | (1274) | (1275) | (1276) | (1277) | (1278) | (1279) | (1280) | (1281) | (1282) | (1283) | (1284) | (1285) | (1286) | (1287) | (1288) | (1289) | (1290) | (1291) | (1292) | (1293) | (1294) | (1295) | (1296) | (1297) | (1298) | (1299) | (1300) | (1301) | (1302) | (1303) | (1304) | (1305) | (1306) | (1307) | (1308) | (1309) | (1310) | (1311) | (1312) | (1313) | (1314) | (1315) | (1316) | (1317) | (1318) | (1319) | (1320) | (1321) | (1322) | (1323) | (1324) | (1325) | (1326) | (1327) | (1328) | (1329) | (1330) | (1331) | (1332) | (1333) | (1334) | (1335) | (1336) | (1337) | (1338) | (1339) | (1340) | (1341) | (1342) | (1343) | (1344) | (1345) | (1346) | (1347) | (1348) | (1349) | (1350) | (1351) | (1352) | (1353) | (1354) | (1355) | (1356) | (1357) | (1358) | (1359) | (1360) | (1361) | (1362) | (1363) | (1364) | (1365) | (1366) | (1367) | (1368) | (1369) | (1370) | (1371) | (1372) | (1373) | (1374) | (1375) | (1376) | (1377) | (1378) | (1379) | (1380) | (1381) | (1382) | (1383) | (1384) | (1385) | (1386) | (1387) | (1388) | (1389) | (1390) | (1391) | (1392) | (1393) | (1394) | (1395) | (1396) | (1397) | (1398) | (1399) | (1400) | (1401) | (1402) | (1403) | (1404) | (1405) | (1406) | (1407) | (1408) | (1409) | (1410) | (1411) | (1412) | (1413) | (1414) | (1415) | (1416) | (1417) | (1418) | (1419) | (1420) | (1421) | (1422) | (1423) | (1424) | (1425) | (1426) | (1427) | (1428) | (1429) | (1430) | (1431) | (1432) | (1433) | (1434) | (1435) | (1436) | (1437) | (1438) | (1439) | (1440) | (1441) | (1442) | (1443) | (1444) | (1445) | (1446) | (1447) | (1448) | (1449) | (1450) | (1451) | (1452) | (1453) | (14 |



TABLE X  
NOTIFICATIONS OF INFECTIOUS DISEASE AND ATTACK RATES.  
52 WEEKS ENDED 28TH DECEMBER, 1940.

38

(Figures obtained from the Weekly Notification Returns).

|                                 | ESTIMATED<br>POPULATION,<br>1930 | SCARLET FEVER |               | DIPHTHERIA |               | MEASLES |               | WHOOPING COUGH |               | ENTERIC FEVER |               | PERITONEAL<br>PYEMIA |               | ENTERIFILA |               | OPHTHALMIA<br>NEONATORUM |               | PNEUMONIA |               | ENTERIC<br>FEBRILE |               | ACUTE<br>POLIO |               | VARICELLA |               | CHICKEN-<br>POX |               | DIPHTHERIA |               | TOTAL |   |
|---------------------------------|----------------------------------|---------------|---------------|------------|---------------|---------|---------------|----------------|---------------|---------------|---------------|----------------------|---------------|------------|---------------|--------------------------|---------------|-----------|---------------|--------------------|---------------|----------------|---------------|-----------|---------------|-----------------|---------------|------------|---------------|-------|---|
|                                 |                                  | No.           |               | No.        |               | No.     |               | No.            |               | No.           |               | No.                  |               | No.        |               | No.                      |               | No.       |               | No.                |               | No.            |               | No.       |               | No.             |               | No.        |               |       |   |
|                                 |                                  | No.           | Per<br>1,000. | No.        | Per<br>1,000. | No.     | Per<br>1,000. | No.            | Per<br>1,000. | No.           | Per<br>1,000. | No.                  | Per<br>1,000. | No.        | Per<br>1,000. | No.                      | Per<br>1,000. | No.       | Per<br>1,000. | No.                | Per<br>1,000. | No.            | Per<br>1,000. | No.       | Per<br>1,000. | No.             | Per<br>1,000. | No.        | Per<br>1,000. |       |   |
| URBAN.                          |                                  |               |               |            |               |         |               |                |               |               |               |                      |               |            |               |                          |               |           |               |                    |               |                |               |           |               |                 |               |            |               |       |   |
| BIRMINGHAM                      | 66,290                           | 58            | 0.87          | 36         | 0.54          | 128     | 1.93          | 10             | 0.15          | 17            | 0.26          | 13                   | 0.20          | 21         | 0.32          | 3                        | 0.04          | 56        | 0.84          | —                  | —             | —              | —             | —         | —             | 14              | —             | 1          | —             | 337   |   |
| BRIGHTON                        | 15,140                           | 12            | 0.79          | 3          | 0.20          | 64      | 4.23          | 4              | 0.26          | —             | —             | 2                    | 0.13          | 1          | 0.07          | 1                        | 0.07          | 7         | 0.46          | —                  | —             | —              | —             | —         | —             | 1               | —             | —          | —             | 95    |   |
| BURTON                          | 24,930                           | 27            | 0.77          | 41         | 1.17          | 54      | 2.15          | 4              | 0.11          | 3             | 0.09          | 7                    | 0.28          | 4          | 0.11          | 2                        | 0.08          | 23        | 0.90          | —                  | —             | —              | —             | —         | —             | 3               | —             | —          | —             | 215   |   |
| GLoucester and Rockingham       | 15,410                           | 27            | 1.71          | 6          | 0.38          | 8       | 0.51          | 40             | 2.53          | —             | —             | 3                    | 0.19          | 3          | 0.19          | —                        | —             | 4         | 0.25          | —                  | —             | —              | —             | —         | —             | 5               | —             | —          | —             | 96    |   |
| Leicester                       | 29,230                           | 34            | 1.33          | 35         | 1.20          | 10      | 0.34          | 16             | 0.55          | 1             | 0.03          | 3                    | 0.10          | 10         | 0.34          | —                        | —             | 10        | 0.34          | —                  | —             | —              | —             | —         | —             | 12              | —             | 113        | —             | 264   |   |
| Leeds                           | 4,462                            | 3             | 0.67          | —          | —             | 2       | 0.45          | —              | —             | —             | —             | 2                    | 0.45          | 1          | 0.22          | —                        | —             | 2         | 0.45          | —                  | —             | —              | —             | —         | —             | 1               | —             | —          | —             | 23    |   |
| Leeds                           | 3,409                            | —             | —             | —          | —             | 2       | 0.59          | —              | —             | —             | —             | 2                    | 0.59          | 1          | 0.29          | —                        | —             | 4         | 1.17          | —                  | —             | —              | —             | —         | —             | 1               | —             | —          | —             | 9     |   |
| Leeds                           | 3,340                            | 19            | 0.57          | 3          | 0.09          | 79      | 2.39          | 33             | 1.00          | 1             | 0.03          | 3                    | 0.09          | 9          | 0.27          | 1                        | 0.03          | 8         | 0.24          | —                  | —             | —              | —             | —         | —             | 1               | —             | —          | —             | 163   |   |
| Leeds                           | 24,850                           | 21            | 0.85          | 2          | 0.08          | 14      | 0.56          | 4              | 0.16          | —             | —             | 5                    | 0.20          | —          | —             | —                        | —             | 14        | 0.56          | —                  | —             | —              | —             | —         | —             | 1               | —             | —          | —             | 67    |   |
| Leeds                           | 37,230                           | 47            | 1.26          | 6          | 0.16          | 30      | 0.81          | —              | —             | —             | —             | 2                    | 0.05          | 1          | 0.03          | —                        | —             | 42        | 1.13          | —                  | —             | —              | —             | —         | —             | 1               | —             | —          | —             | 151   |   |
| Leeds                           | 16,660                           | 8             | 0.48          | 4          | 0.24          | 12      | 0.72          | —              | —             | —             | —             | 1                    | 0.06          | 2          | 0.12          | —                        | —             | 5         | 0.30          | —                  | —             | —              | —             | —         | —             | 21              | —             | —          | —             | 69    |   |
| Leeds                           | 40,400                           | 132           | 3.24          | 15         | 0.37          | 110     | 2.77          | 25             | 0.62          | 4             | 0.09          | 9                    | 0.22          | 22         | 0.55          | 7                        | 0.17          | 38        | 0.95          | —                  | —             | —              | —             | —         | —             | 6               | —             | —          | —             | 370   |   |
| Leeds                           | 91,740                           | 140           | 1.53          | 72         | 0.78          | 67      | 0.73          | 12             | 0.13          | 16            | 0.17          | 19                   | 0.21          | 29         | 0.32          | 2                        | 0.02          | 116       | 1.26          | —                  | —             | —              | —             | —         | —             | 32              | —             | —          | —             | 313   |   |
| Leeds                           | 4,105                            | 15            | 3.62          | 8          | 1.92          | 4       | 0.95          | —              | —             | —             | —             | 2                    | 0.48          | 7          | 1.71          | —                        | —             | 3         | 0.72          | —                  | —             | —              | —             | —         | —             | 33              | —             | —          | —             | 63    |   |
| Leeds                           | 6,674                            | 6             | 0.90          | 1          | 0.15          | 14      | 2.10          | —              | —             | —             | —             | 3                    | 0.48          | 5          | 0.15          | 1                        | 0.01          | 10        | 1.50          | —                  | —             | —              | —             | —         | 5             | —               | —             | —          | —             | 38    |   |
| Leeds                           | 6,240                            | 10            | 1.60          | 1          | 0.16          | —       | —             | —              | —             | —             | —             | 3                    | 0.48          | —          | —             | —                        | —             | —         | —             | —                  | —             | —              | —             | —         | —             | —               | —             | —          | —             | 30    |   |
| Leeds                           | 16,420                           | 4             | 0.25          | 1          | 0.06          | —       | —             | —              | —             | —             | —             | 1                    | 0.06          | 1          | 0.06          | —                        | —             | 3         | 0.19          | —                  | —             | —              | —             | —         | —             | 4               | —             | —          | —             | 18    |   |
| Leeds                           | 81,600                           | 97            | 1.20          | 44         | 0.54          | 79      | 0.97          | 10             | 0.12          | 10            | 0.12          | 11                   | 0.14          | 5          | 0.06          | —                        | —             | 67        | 0.83          | —                  | —             | —              | —             | —         | —             | 22              | —             | —          | —             | 260   |   |
| Leeds                           | 14,910                           | 135           | 9.01          | 90         | 6.02          | 446     | 2.90          | 123            | 8.23          | 28            | 1.89          | 20                   | 1.34          | 42         | 2.82          | 6                        | 0.40          | 158       | 1.06          | —                  | —             | —              | —             | —         | —             | 19              | —             | —          | —             | 1121  |   |
| Leeds                           | 96,300                           | 87            | 0.91          | 54         | 0.56          | 94      | 0.97          | 7              | 0.07          | 10            | 0.10          | 17                   | 0.17          | 39         | 0.41          | 4                        | 0.04          | 48        | 0.50          | —                  | —             | —              | —             | —         | —             | 10              | —             | —          | —             | 362   |   |
| Leeds                           | 9,023                            | 4             | 0.44          | —          | —             | 5       | 0.55          | 1              | 0.11          | —             | —             | —                    | —             | 2          | 0.22          | —                        | —             | 7         | 0.78          | —                  | —             | —              | —             | —         | —             | 3               | —             | —          | —             | 60    |   |
| Leeds                           | 7,810                            | 10            | 1.28          | 1          | 0.13          | 3       | 0.38          | 6              | 0.77          | —             | —             | —                    | —             | 2          | 0.26          | —                        | —             | 7         | 0.90          | —                  | —             | —              | —             | —         | —             | —               | —             | —          | —             | 30    |   |
| Leeds                           | 58,680                           | 95            | 1.62          | 63         | 1.07          | 31      | 0.53          | 7              | 0.12          | 22            | 0.37          | 21                   | 0.36          | 12         | 0.20          | 1                        | 0.01          | 16        | 0.27          | —                  | —             | —              | —             | —         | —             | 2               | —             | —          | —             | 283   |   |
| Leeds                           | 7,199                            | 10            | 1.39          | 2          | 0.28          | 20      | 2.78          | 7              | 0.97          | —             | —             | 1                    | 0.14          | 1          | 0.14          | —                        | —             | 1         | 0.14          | —                  | —             | —              | —             | —         | —             | 2               | —             | —          | —             | 42    |   |
| Leeds                           | 63,900                           | 56            | 0.88          | 40         | 0.63          | 27      | 0.42          | 1              | 0.01          | 14            | 0.22          | 19                   | 0.30          | 3          | 0.05          | 1                        | 0.01          | 35        | 0.55          | —                  | —             | —              | —             | —         | —             | 7               | —             | —          | —             | 250   |   |
| Leeds                           | 6,832                            | 6             | 0.88          | 1          | 0.15          | 29      | 4.24          | 2              | 0.29          | —             | —             | —                    | —             | 5          | 0.73          | —                        | —             | 1         | 0.15          | —                  | —             | —              | —             | —         | —             | —               | —             | —          | —             | 45    |   |
| Leeds                           | 106,400                          | 88            | 0.83          | 18         | 0.16          | 78      | 0.73          | 13             | 0.12          | 5             | 0.05          | 34                   | 0.32          | 27         | 0.25          | 4                        | 0.04          | 90        | 0.82          | —                  | —             | —              | —             | —         | —             | 6               | —             | —          | —             | 363   |   |
| Leeds                           | 48,620                           | 28            | 0.58          | 8          | 0.16          | 93      | 1.96          | 4              | 0.08          | 1             | 0.02          | 7                    | 0.14          | 15         | 0.31          | 1                        | 0.01          | 31        | 0.64          | —                  | —             | —              | —             | —         | —             | 12              | —             | —          | —             | 206   |   |
| Leeds                           | 2,453                            | 3             | 1.22          | 1          | 0.41          | 2       | 0.82          | —              | —             | —             | —             | —                    | —             | —          | —             | —                        | —             | —         | —             | —                  | —             | —              | —             | —         | —             | 1               | —             | —          | —             | 7     |   |
| Leeds                           | 7,797                            | 3             | 0.39          | 4          | 0.52          | 37      | 4.80          | 12             | 1.56          | —             | —             | —                    | —             | —          | —             | —                        | —             | 5         | 0.65          | —                  | —             | —              | —             | —         | —             | —               | —             | —          | —             | 66    |   |
| Leeds                           | 2,196                            | 3             | 1.37          | 1          | 0.46          | 2       | 0.91          | 5              | 2.28          | —             | —             | —                    | —             | 2          | 0.91          | —                        | —             | 1         | 0.45          | —                  | —             | —              | —             | —         | —             | —               | —             | —          | —             | 15    |   |
| TOTAL                           | 1,104,230                        | 1,208         | 1.09          | 564        | 0.51          | 1,662   | 1.41          | 347            | 0.31          | 140           | 0.13          | 226                  | 0.20          | 292        | 0.26          | 40                       | 0.36          | 833       | 0.75          | 4                  | —             | 6              | —             | 178       | —             | 228             | —             | 229        | —             | 5,897 |   |
| RURAL.                          |                                  |               |               |            |               |         |               |                |               |               |               |                      |               |            |               |                          |               |           |               |                    |               |                |               |           |               |                 |               |            |               |       |   |
| Barnsley                        | 17,600                           | 28            | 1.59          | 1          | 0.06          | 68      | 3.87          | 20             | 1.15          | —             | —             | 2                    | —             | 4          | 0.23          | 1                        | —             | 8         | 0.45          | —                  | —             | —              | —             | —         | —             | 2               | —             | —          | —             | 143   |   |
| Barnsley                        | 33,800                           | 21            | 0.62          | 12         | 0.35          | 18      | 0.53          | 10             | 0.29          | —             | —             | 3                    | —             | 9          | 0.27          | —                        | —             | 9         | 0.27          | —                  | —             | —              | —             | —         | —             | —               | —             | —          | —             | 87    |   |
| Barnsley                        | 18,240                           | 29            | 1.59          | 2          | 0.11          | 40      | 2.19          | 2              | 0.11          | —             | —             | 1                    | —             | 3          | 0.16          | 1                        | —             | 11        | 0.60          | —                  | —             | —              | —             | —         | —             | 1               | —             | —          | —             | 95    |   |
| Barnsley                        | 16,520                           | 47            | 2.83          | 8          | 0.48          | 87      | 5.23          | 4              | 0.24          | —             | —             | 6                    | —             | 8          | 0.48          | —                        | —             | 18        | 1.09          | —                  | —             | —              | —             | —         | —             | 5               | —             | —          | —             | 141   |   |
| Barnsley                        | 16,240                           | 13            | 0.78          | 6          | 0.36          | 108     | 6.51          | 2              | 0.12          | —             | —             | 1                    | —             | 1          | 0.06          | —                        | —             | 9         | 0.54          | —                  | —             | —              | —             | —         | —             | —               | —             | —          | —             | 206   |   |
| Barnsley                        | 20,620                           | 86            | 4.17          | 7          | 0.34          | 47      | 2.28          | 28             | 1.36          | —             | —             | 1                    | —             | 6          | 0.29          | 3                        | —             | 22        | 1.07          | —                  | —             | —              | —             | —         | —             | 6               | —             | —          | —             | 19    |   |
| Barnsley                        | 13,480                           | 6             | 0.44          | 1          | 0.07          | 4       | 0.30          | —              | —             | —             | —             | 3                    | —             | 3          | 0.22          | —                        | —             | 7         | 0.51          | —                  | —             | —              | —             | —         | —             | 3               | —             | —          | —             | 59    |   |
| Barnsley                        | 13,560                           | 33            | 2.53          | 3          | 0.22          | 4       | 0.29          | —              | —             | —             | —             | 2                    | —             | 5          | 0.37          | —                        | —             | 16        | 1.19          | —                  | —             | —              | —             | —         | —             | 1               | —             | —          | —             | 65    |   |
| Barnsley                        | 18,200                           | 19            | 1.17          | 6          | 0.37          | 12      | 0.64          | 2              | 0.12          | —             | —             | 2                    | —             | 1          | 0.06          | —                        | —             | 2         | 0.12          | —                  | —             | —              | —             | —         | —             | 2               | —             | —          | —             | 49    |   |
| Barnsley                        | 16,830                           | 14            | 0.83          | 3          | 0.18          | 25      | 1.49          | —              | —             | 1             | —             | 1                    | —             | 1          | 0.06          | —                        | —             | 19        | 0.45          | —                  | —             | —              | —             | —         | —             | 1               | —             | —          | —             | 83    |   |
| Barnsley                        | 22,310                           | 41            | 1.84          | 4          | 0.18          | 19      | 0.85          | 1              | 0.04          | —             | —             | 2                    | —             | —          | —             | —                        | —             | —         | —             | —                  | —             | —              | —             | —         | —             | —               | —             | —          | —             | —     | — |
| TOTAL                           | 206,110                          | 319           | 1.64          | 53         | 0.26          | 432     | 2.10          | 78             | 0.38          | 3             | 0.01          | 23                   | 0.11          | 40         | 0.19          | 5                        | —             | 115       | 0.56          | 1                  | —             | —              | —             | 6         | —             | 34              | —             | 1          | —             | 1,130 |   |
| TOTAL—RURAL AND URBAN DISTRICTS | 1,104,230                        | 1,208         | 1.09          | 564        | 0.51          | 1,662   | 1.41          | 347            | 0.31          | 140           | 0.13          | 226                  | 0.20          | 292        | 0.26          | 40                       | —             | 833       | 0.75          | 4                  | —             | 6              | —             | 178       | —             | 228             | —             | 229        | —             | 5,897 |   |
| TOTAL—RURAL DISTRICTS           | 206,110                          | 319           | 1.64          | 53         | 0.26          | 432     | 2.10          | 78             | 0.38          | 3             | 0.01          | 23                   | 0.11          | 40         | 0.19          | 5                        | —             | 115       | 0.56          | 1                  | —             | —              | —             | 6         | —             | 34              | —             | 1          | —             | 1,130 |   |
| TOTAL FOR ADMINISTRATIVE COUNTY | 1,310,360                        | 1,547         | 1.18          | 617        | 0.47          | 1,994   | 1.52          | 425            | 0.32          | 143           | 0.11          | 249                  | 0.19          | 332        | 0.25          | 45                       | —             | 948       | 0.72          | 5                  | —             | 6              | —             | 184       | —             | 262             | —             | 240        | —             | 7,027 |   |



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