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COUNTY BOROUGH OF WIGAN

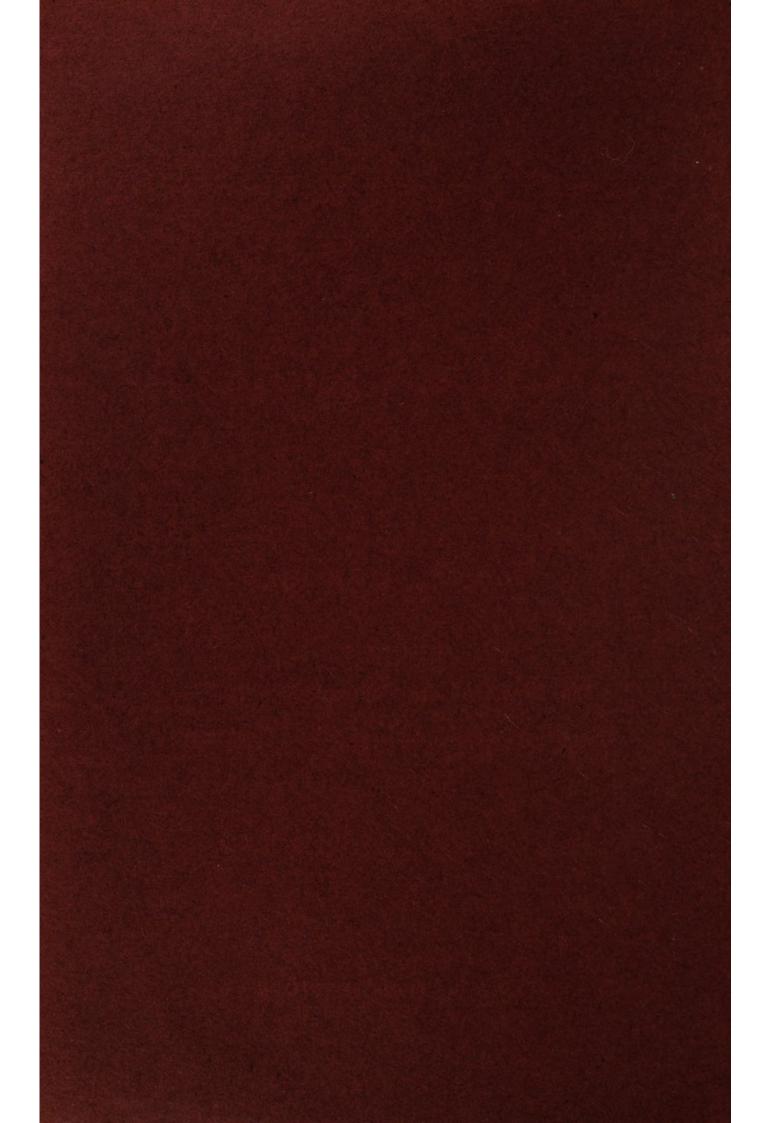
Annual Report

MEDICAL OFFICER OF HEALTH

FOR TELE YEAR 1917.

The Report of the Tuberculosis Officer. The Report of the Chief Sanitary Inspector.

WIGAN trowger & Son, Ltd., Printers, Clarence Press, Wallgate 1918



COUNTY BOROUGH OF WIGAN

The

Annual Report

OF THE

MEDICAL OFFICER OF HEALTH

FOR THE YEAR 1917,

TOGETHER WITH

The Report of the Tuberculosis Officer, The Report of the Chief Sanitary Inspector.

WIGAN : Strowger & Son, Ltd., Printers, Clarence Press, Wallgate. 1918. Digitized by the Internet Archive in 2018 with funding from Wellcome Library

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THIS Report has been prepared in accordance with the instructions of the Local Government Board, as contained in the Sanitary Officers' (outside London) Order, 1910.

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HEALTH COMMITTEE.

(From November, 1917, to November, 1918.)

Chairman - - - Alderman M. BENSON, M.D., J.P.

Vice-Chairman - - - - - - - - - - - THE MAYOR.

The EX-MAYOR.

| Alderman | J. O'DONAHUE, J.P. | Councillor | JAS. JOLLEY. |
|----------|--------------------|------------|------------------|
| | H. BARTON. | ,, | A. E. MATHER. |
| ,, | WM. BANKHEAD. | | P. MURPHY. |
| ,, | GEO. BURBRIDGE. | ,, | F. REES, M.D. |
| " | J. COUNSELL. | ,, . | WM. B. SWALWELL. |
| ,, | J. HENDERSON. | ,, | E. YATES. |
| | | | 1 1015 |

Committee meets on Third Thursday in each month, at 3-45 p.m.

SANITARY WORKS COMMITTEE.

-++--

Chairman - - - - - - Alderman W. H. ANGUS. Vice-Chairman - - - - - - - - Councillor THOS. TAYLOR. The EX-MAYOR.

The MAYOR.

Councillor T. J. ARKWRIGHT.

- GEO. BURBRIDGE. ,,
- A. GUEST. C. W. HEALY. W. HIGHTON. ,,
- 22
- 99
- JOHN R. KING. 22

Committee meets on Third Monday in each month, at 4-30 p.m.

HOSPITALS SUB-COMMITTEE.

Chairman - - - - - - Councillor H. BARTON. The MAYOR. The EX-MAYOR.

Alderman M. BENSON, M.D., J.P. , J. O'DONAHUE, J.P. Councillor A. E. MATHER. Councillor A. E. MATHER. Councillor P. MURPHY. , W. B. SWALWELL. , E. YATES. 22

Councillor J. MITCHINSON.

,,,

...

", Alfred Rathbone. ", F. Rees, M.D. ", J. Roscoe.

J. WALKDEN.

Committee meets the Tuesday before the Third Thursday in each month at the Hospital.

HOUSING & INSANITARY HOUSES COMMITTEE.

Chairman - - - - - - - Councillor E. YATES. Vice-Chairman - - - - - - - - - - Councillor J. LOWE.

| | The MAYOR. | The EX-MAYOR. | |
|------------|--------------------|------------------------|--|
| Alderman | T. ASHTON, J.P. | Councillor W. HIGHTON. | |
| ,, | J. GASKELL. | " JNO. R. HOLLAND. | |
| ,, | A. S. HILTON, J.P. | " J. JOLLEY. | |
| Councillor | W. CATTERALL. | " J. MCCURDY. | |
| ,, | R. Gore. | ", A. RATHBONE. | |
| ,, | J. GORMAN. | " F. REES, M.D. | |

Councillor J. WALKDEN.

Committee meets on the Second Monday in each month, at 3-30 p.m.

Medical Officer of Health's Department, 1917.

++++

Medical Officer of Health, Medical Superintendent of Sanatoria, Superintendent School Medical Officer, Administrative Tuberculosis Officer :

* FRED E. WYNNE, B.A., M.B., Ch.B., D.P.H., &c.

Tuberculosis Officer. Acting Medical Officer of Health, Acting Medical Superintendent of Hospitals; Acting Superintendent School Medical Officer : GEORGE JESSEL, M.A., M.D., D.P.H.

Acting School Medical Officer : J. FOREMAN BERRY, M.B., Ch.B., L.R.C.P.E., &c.

> Chief Sanitary Inspector, &c. : CHARLES H. FRANCE (a) (b) (g) (h).

Sanitary Inspectors : FRED MARTLEW (b) (c) (h), FRED G. BISHOP, JOHN ASHTON (b).

Assistants :

* ERNEST RICHARDSON, JAMES RISLEY, * ARTHUR MACKENZIE.

Lady Health Visitors :

A. MORT (d) (e),

24.

B. CROMPTON (d) (e) (g) (i),

* THOMAS BROWN, * ANNIE B. BOTTOMLEY,

S. C. WILSON (d) (f), E. TOOTELL (b) (d) (h).

Tuberculosis Nurse : E. WALTERS.

Clerks :

* ARTHUR BYERS.

VERA WALSH.

Disinfectors : HENRY PARKINSON,

GEORGE CROSTON

* On Military Service.

† Temporary Assistants.

(a) Sanitary Inspector's Certificate (Lond.), Royal Sanitary Institute.
(b) Sanitary Inspector's Certificate (Prov.), Royal Sanitary Institute.
(c) Meat Inspector's Certificate, Liverpool University.

(d) Certificate, Central Midwives' Board.

- (e) Health Visitor and School Nurse's Certificate, Royal Sanitary Institute.
- (1) Sanitary Inspector's Certificate, London Examination Board.

(g) Associate Royal Sanitary Institute.

(h) Member Sanitary Inspectors' Association.(i) Associate Sanitary Inspectors' Association.

JOHN ARROWSMITH.

HEALTH OFFICE, WIGAN, August, 1918.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

I have the honour to present herewith my ANNUAL REPORT on the health of the Borough during the year 1917.

Some delay in the compilation and final correction of the Statistics has been inevitable owing to shortage of Staff in the Department.

As I only resumed civilian duties in November, I am able to do little more than place the usual statistical information before you.

The figures show that the birth-rate has been fairly well maintained, and is still well in excess of that of England and Wales as a whole.

The recorded death-rate shows an increase of $\cdot 76$ per 1,000, and the corrected death-rate an increase of $\cdot 84$ per 1,000 over the figures of the previous year.

This compares with an increase of $\cdot 4$ in England and Wales and $\cdot 2$ in the 96 great towns.

This increase is no doubt due to factors directly and indirectly connected with the war, and its continuance and probable increase must be anticipated as long as the war lasts, and in fact until house conditions become normal and the work of reconstruction can proceed.

The impossibility of obtaining labour and materials has practically brought the work of improving insanitary dwellings to a standstill, and closing orders even when nominally in force become inoperative owing to the impossibility of re-housing displaced families.

Overcrowding appears to be worse than ever, owing in many cases to the wives and families of soldiers coming to live with relatives, and to a certain extent, to the existence of imported labour. As building is at a standstill overcrowding thus becomes inevitable.

Any material improvement in the public health of the Borough is impossible as long as we have our deplorable list of insanitary and overcrowded houses, unpaved yards, and privy middens.

Fortunately, the Housing Committee is fully alive to these facts, and a great deal of work has been done which has resulted in their plans for the future being in a very forward condition.

There is, therefore, every reason to believe that the period of reconstruction after the war will see some really revolutionary changes in the conditions under which our wage-earning classes live, and the disappearance of some of the worst of our heritage from the past, with a corresponding reduction of the sickness and deathrates.

In the meantime, as will be seen from your Chief Sanitary Inspector's Report, your Sanitary Staff has devoted its energies to th abatement of nuisances, the maintenance as far as possible under the circumstances of a reasonable standard of sanitation in the town, the protection of the food supply and destruction of unsound food, and the other statutory duties which devolve upon them.

The effect on infant health and mortality of our unsatisfactory housing and sanitary conditions is to a certain extent mitigated by the excellent and unremitting work of your Health Visitors, in the clinics and in the homes of the people, but this work should never be regarded as anything but a palliative. While its educative value is very great it cannot place the children in those surroundings of cleanliness, health and decency which ought to be the birth-right of every citizen.

> I am, Vours faithfully,

> > FRED E. WYNNE, Medical Officer of Health.

VITAL STATISTICS.

STATISTICAL SUMMARY FOR 1917 & 1916.

| | 1917. | 1916. |
|---|--------|--------|
| Civil Population estimated July 1st | 83,110 | 83,203 |
| Births—Males 1060 Total Females 964 | 2,024 | 2,108 |
| Annual rate of births per 1,000 of population Ditto on Registrar General's estimated | 24.15 | 24.30 |
| population for 1916-17 | 21.84 | 23.28 |
| Ditto for England and Wales Illegitimate births 92, or ·99 per 1,000 of | 17.8 | 21.60 |
| population, a percentage of | 4.54 | 3.98 |
| Deaths—Males 713 Total Females 632 | 1,345 | 1,284 |
| Recorded death-rate | 16.18 | 15.42 |
| Corrected death-rate | 18.01 | 17.17 |
| Ditto in England and Wales | 14.4 | 14.00 |
| Death-rate in 96 great towns | 14.6 | 14.40 |
| Excess of registered births over deaths | 679 | 824 |
| Total deaths from seven principal Zymotic | | |
| Diseases | 153 | 87 |
| Annual rate of mortality from seven principal | | |
| Zymotic Diseases | 1·84 | I.04 |
| Total deaths from Diarrhœa | - 29 | 40 |
| Infantile-rate (deaths per 1,000 births) | 118 | 113 |
| Ditto for England and Wales | 97 | 91 |
| Ditto for 96 great towns | 104 | 99 |
| Deaths of infants under I day old, number | 27 | 34 |
| ", ", ", I year (legitimate) | . 228 | 207 |
| ,, ,, ,, I year (illegitimate) | 12 | 33 |
| | | |

Acreage.—With an acreage of 5,082, and a civil population estimated at 83,110, we have 16.35 persons per acre.

Population.—This figure has been supplied by the Registrar-General. The Registrar-General's estimate for the population of the Borough on July 1st, 1914, *i.e.*, a month before the outbreak of war, was 90,842. There is thus a reduction of over 7,732 during the three years due to the departure of men joining His Majesty's forces. The loss of thousands of the strongest and healthiest members of the community, whose expectation of life would be long, has naturally an adverse effect upon the death-rate.

Births.—The number of births registered during 1917 is 2,024 (males 1,060, females 964), the rate per 1,000 of the population being 24.15. The birth-rate, compared with 1916, is 1.44 lower. The birth-rate, estimated on Registrar-General's population for Wigan, July 1st, 1917, is 21.84. The illegitimate births number 92, or .99 per cent.

The Mortality-rate.—The deaths for 1917 number 1,345 (males 713, females 632), being an excess of 81 males over females. The recorded rate per 1,000 of the population per annum is $16 \cdot 18$; in 1916, $15 \cdot 42$; thus on a population of 83,110 we have a decrease in deaths of 61 as compared with 1916. There is, therefore, an increase in the death-rate of $\cdot 76$ per 1,000.

The death-rate for each quarter is as follows :---

| 1917. | 1st Quarter. | 2nd Quarter. | 3rd Quarter. | 4th Quarter. |
|------------|---------------|--------------|--------------|--------------|
| All Causes | $22 \cdot 45$ | 13.74 | 11.41 | 13.56 |
| Zymotics | 3.06 | .90 | 1.71 | 1.61 |

The Zymotic-rate, 1.84, shows an increase of .80 for 1917, in the previous year it was 1.04.

DEATH-RATES, 1917.

| Disease. | No. of Deaths | Rate |
|---|---------------|----------|
| Enteric Fever | | |
| Small-pox | | |
| Measles | | .92 |
| Scarlet Fever | | .06 |
| Whooping Cough | | .43 |
| Diphtheria and Croup | | .07 |
| Influenza | | .09 |
| Erysipelas | | .03 |
| Phthisis (Pulmonary Tuberculosis) | | 1.46 |
| Tuberculosis Meningitis | | -21 |
| Other Tubercular Diseases | | .20 |
| Cancer, Malignant Disease | | -66 |
| | | .00 |
| Rheumatic Fever | | -12 |
| Meningitis | | |
| Organic Heart Disease | | .87 |
| Bronchitis | | 1.59 |
| Pneumonia (all forms) | | 2.10 |
| Other Diseases of Respiratory Organs | | •04 |
| Diarrhœa and Enteritis (under 2 years) | 41 | -49 |
| Appendicitis and Typhlitis | | .04 |
| Cirrhosis of Liver | 9 | .10 |
| Alcoholism | | |
| Nephritis and Bright's Disease | | .37 |
| Puerperal Fever | 2 | .02 |
| Other Accidents and Diseases of Pregnancy and | | 1 |
| Parturition | 14 | .16 |
| Congenital Debility and Malformation (including | | - marine |
| Premature Birth) | 91 | 1.09 |
| Violent Deaths (excluding Suicides) | 53 | .63 |
| Suicide | | .06 |
| Other Defined Diseases | | 3.51 |
| Diseases ill-defined or unknown | | .63 |
| Total | 1,345 | 16.18 |

.

TABLE I.

WEEKLY RETURNS OF BIRTHS AND DEATHS FOR 1917.

| 1917. WEEK ENDING. | 18 29 34 33 52 | Rate per 1000 19.96 11.22 18.09 21.21 20.58 | from Zymotics | Rate -62 -62 | Births 39 | Rate per 1000 24.32 |
|--|----------------------------|---|------------------|--------------------|--------------|---------------------------|
| , 13 , 20 , 27 February 3 , 10 | 18 29 34 33 52 | $11 \cdot 22 \\ 18 \cdot 09 \\ 21 \cdot 21$ | . 1 | | | 24.32 |
| , 13 , 20 , 27 February 3 , 10 | 18 29 34 33 52 | $11 \cdot 22 \\ 18 \cdot 09 \\ 21 \cdot 21$ | . 1 | | | 24.32 |
| , 13 , 20 , 27 February 3 , 10 | 18 29 34 33 52 | $11 \cdot 22 \\ 18 \cdot 09 \\ 21 \cdot 21$ | | | 10 | |
| , 20 , 27 February 3 , 10 | 29 34 33 52 | 21.21 | 2 | | 42 | 26.20 |
| ", 27 February 3 , 10 | 34 33 52 | 21.21 | | 1.24 | 38 | 23.70 |
| February 3 ,, 10 | 33 52 | | 3 | 1.87 | 37 | 23.08 |
| ,, <u>10</u> | 52 | | | | 28 | 17.46 |
| 17 | | 32.43 | 8 | 4.99 | 36 | 22.45 |
| | | 36.80 | 12 | 7.49 | 46 | 28.69 |
| 94 | | 34.95 | 12 | 7.49 | 38 | 23.65 |
| Jarch 3 | 10 | 28.71 | 5 | 3.12 | 36 | 22.47 |
| 10 | | 16.85 | 7 | 4.36 | 37 | 23.09 |
| 17 | 21000200 E | 17.47 | 4 | 2.49 | 34 | 21.22 |
| . 04 | | 15.59 | 8 | 4.99 | 42 | 26.20 |
| | | 18.09 | 1 | .62 | 37 | 23.08 |
| April 7 | | 8.10 | 3 | 1.87 | 30 | 18.71 |
| 14 | | 18.09 | 2 | 1.24 | 45 | 28.07 |
| | | 14.33 | 2 | 1.24 | 42 | 26.18 |
| | | 16.83 | 2 | 1.24 | 40 | 24.93 |
| | | 19.32 | ĩ | .62 | 40 | 24.93 |
| fay 5 12 | | 7.47 | | | 49 | 30.52 |
| ,, | C | 16.81 | ï | .62 | 39 | 24.29 |
| " <u>19</u> | | 11.83 | - | | 47 | 29.26 |
| ,, 26 | | 15.56 | 2 | 1.24 | 33 | 20.54 |
| une 2 | | | | | 50 52 | 32.35 |
| | | 11.20 | 3 | 1.24 | | |
| ,, 16 | | 16.17 | | 1.86 | 43 | 26.75 |
| ,, 23 | | 11.82 | - 1 | ·62 | 49 | 30.49 |
| .,, 30 | | 11.19 | | 1.04 | 40 | 24.87 |
| uly 7 | | 11.81 | 2 | 1.24 | - 36 | 22.38 |
| ,, 14 | | 11.18 | 1 | .62 | 48 | 29.83 |
| ,, 21 | | 13.67 | 2 | 1.24 | 44 | 27.34 |
| ,, 28 | | 11.18 | 1 | ·62 | 33 | 20.50 |
| August 4 | | 12.42 | - 4 | 2.48 | 38 | 23.60 |
| " 11 | | 13.04 | 2 | 1.24 | 37 | 22.98 |
| ,, 18 | | 11.80 | 5 | 3.10 | 30 | 18.63 |
| | | 13.65 | 3 | 1.86 | 54 | 33.51 |
| September 1 | | 9.93 | 5 | 3.10 | 29 | 18.00 |
| ,, 8 | | 11.78 | 3 | 1.86 | 41 | 25.43 |
| ,, 15 | | 8.06 | 1 | ·62 | 34 | 21.09 |
| , 22 | 17 | 10.53. | 3 | 1.85 | 45 | 27.89 |
| | | 9.29 | 4 | 2.47 | 37 | 22.93 |
| October 6 | | 7.43 | 3 | 1.85 | 47 | 29.12 |
| ,, 13 | | 9.91 | 2 | 1.23 | 45 | 27.88 |
| ,, * 20 | | 11.76 | 2 | 1.23 | 48 | 29.72 |
| ,, 27 | | 11.14 | 1 | ·61 | 34 | 21.05 |
| November 3 | | 7.43 | | | 35 | 21.67 |
| ,, 10 | | 11.13 | 2 | 1.23 | 36 | 22.27 |
| ,, 17 | | 12.99 | 1 | •61 | 35 | 21.65 |
| ,, 24 | | 19.80 | 1 | ·61 | 26 | 16.08 |
| December 1 | | 12.37 | 1 | ·61 | 30 | 18.56 |
| ,, 8 | | 15.47 | 4 | 2.47 | 41 | 25.37 |
| ., 15 | | 14.84 | 3 | 1.85 | 35 | 21.64 |
| , 1 22 | 26 | 16.07 | 3 | 1.85 | 33 | 20.40 |
| " ž 29 | | 25.99 | 11 | 6.80 | 20 | 12.37 |
| Transferable | 66 | | | | 14 | 1 |

Registrar-General's Estimated Population, 1917 :---

For Deaths, 83,110.

For Births, 92,644

TABLE II.

.

MONTHLY LIST OF DEATHS FROM ALL CAUSES AND ZYMOTIC DISEASES WITH RATES PER 1,000 PER ANNUM FOR 1916 AND 1917.

| | ver s. | 1916 | | 28 | 25 | 31 | 35 | 26 | 30 | 29 | 11 | 18 | 25 | 24 | 31 | 41 | 26 | 380 |
|------------------|---------------------------|------|---|--------------|---------------|------------|------------|----------|-----------|-----------|-------------|---------------|-------------|--------------|--------------|---------------|----------------|--------|
| s of | Persons over 60 years. | 1917 | | 37 | 59 | 39 | 33 | 24 | 29 | 33 | 16 | 14 | 12 | 17 | 27 | 32 | 12 | 384 |
| Deaths of | under ar. | 1916 | | 17 | 26 | 22 | 20 | 23 | . 17 | 14 | 8 | 17 | 23 | 14 | 17 | 19 | 3 | 240 |
| | Infants under 1 year. | 1917 | | 17 | 35 | 16 | 16 | 21 | 15 | 13 | 29 | 27 | 18 | 15 | 13 | 25 | : | 240 |
| ual | .000 8- | 1916 | | 1.25 | 1.56 | 11. | .93 | -31 | .46 | -93 | 11- | 1.40 | 3.49 | 1.24 | -31 | .15 | : | 1.04 |
| Annual | per 1,000 living. | 1917 | | 1.08 | 4-99 | 3.74 | 1.24 | .62 | 4.34 | 2.48 | 1.39 | 2.48 | 1.69 | .76 | .76 | 3.24 | : | 1.84 |
| of | ntic ses. | 1916 | | 8 | 10 | 5 | 9 | 67 | 3 | 9 | 5 | 6 | 22 | 8 | 67 | 1 | 1 | 88 |
| No. of | Zymotic Diseases. | 1917 | | - | 32 | 24 | 8 | 4 | - | 4 | 6 | 16 | II | 5 | 5 | 21 | | 153 |
| nal to | ,000 1g. | 1916 | - | 14.10 | 15-94 | 17-07 | 16-92 | 17-55 | 14.89 | 14-26 | 8.30 | 12.21 | 13.63 | 12.06 | 14.88 | 16.45 | : | 15.42 |
| Annual | per 1,000 living. | 1917 | | 17.62 | 31.19 | 19.65 | 14.65 | 15.10 | 13.69 | 11.50 | 12.57 | 11.79 | 8.82 | 10.06 | 14-07 | 18.09 | : | 16.18 |
| of | m uses. | 1916 | | 90 | 105 | 109 | .108 | 112 | 95 | 16 | 53 | 17 | 87 | 17 | 95 | 105 | 80 | 1284 |
| No. of Deaths | from All Causes. | 1917 | | 113 | 200 | 126 | 94 | 97 | 88 | 74 | 81 | 76 | 57 | 65 | 16 | 111 | 99 | 1345 |
| Four Wasks | Ending. | | | January 27th | February 24th | March 24th | April 21st | May 19th | June 16th | July 14th | August 11th | September 8th | October 6th | November 3rd | December 1st | December 29th | Transferable . | TOTALS |

| Figures as to Venereal Diseases | 9 deaths 8 deaths from 9 deaths from 9 deaths from 14 deaths under 1 11 deaths under 1 12 deaths trom 13 deaths from 13 deaths from 14 deaths from 5 deaths from 5 deaths from 15 deaths from 16 deaths from 17 deaths from 18 deaths from 18 deaths from 19 deaths from 10 deaths from 10 deaths f | *** |
|--|--|--------|
| Deaths from other forms of Tuberculosis | 24 24 30 40 40 56 deaths 62 deaths 334 335 334 335 335 335 336 339 46 60 50 60 60 60 52 60 52 60 50 52 60 50 52 55 55 50 50 50 50 50 50 50 50 50 50 50 | ~ |
| Phthisis death-rate | 2000 200 2000 2 | AT T |
| Other respiratory death-rate | $\begin{array}{c} 1.19\\ 1.10\\$ | E.O. |
| Pneu- monia death-rate | $\begin{array}{c} 1.27\\ 1.12\\$ | |
| Infantile¶ death-rate per 1,000 births | $\begin{array}{c} 9.5 \cdot 72 \\ 9.7 \cdot 80 \\ 9.7 \cdot 80 \\ 9.7 \cdot 81 \cdot 30 \\ 9.7 \\ 9.1 \\ 9.7 \\ 9.1 \\ 9.7 \\ 9.1 \\ 9.7 \\ 9.1 \\ 9.7 \\ 9.1 \\ 9.7 \\ 9.1 \\ 9.7 \\ 9.1 \\ 9.7 \\ 9.1 \\ 9.7 \\ 9.1 \\ 9.7 \\ 9.1 \\ 9.7 \\ 9.1 \\ 9.7 \\ 9.1 \\ 9.7 \\ 9.1 \\ 9.7 \\ 9.1 \\ 9.7 \\ 9.1 \\ 9.7 \\ 9.1 \\ 9.7 \\ 9.1 \\ 9.7 \\ 9.1 \\ 9.7 $ | 011 |
| Zymotic- rate | $\begin{array}{c} 56\\ 56\\ 126\\ 126\\ 126\\ 126\\ 126\\ 126\\ 126\\ 12$ | EO T |
| Death-rate | 13:56 13:56 13:56 13:56 13:56 13:56 13:56 14:10 15:61 15:600 | 10.01 |
| Population Birth-rate Death-rate | $\begin{array}{c} 12 \\ 22 \\ 22 \\ 22 \\ 22 \\ 22 \\ 22 \\ 22 $ | 01 17 |
| Population | $\begin{array}{c} 40,694\\ 83,179\\ 144,227\\ 76,772\\ 162,227\\ 76,772\\ 162,227\\ 76,772\\ 103,098\\ 163,098\\ 103,098\\ 103,098\\ 103,509\\ 103,509\\ 106,500\\ 106,500\\ 106,500\\ 106,500\\ 106,500\\ 106,500\\ 115,599\\ 57,048\\ 151,731\\ 92,775\\ 100\\ 52,244\\ 92,775\\ 100\\ 236,999\\ 57,048\\ 151,731\\ 92,570\\ 106\\ 500\\ 106\\ 500\\ 115\\ 500\\ 215,116\\ 151,731\\ 92,758\\ 500\\ 106\\ 106\\ 500\\ 106\\ 106\\ 500\\ 106\\ 500\\ 106\\ 500\\ 106\\ 106\\ 100\\ 106\\ 500\\ 106\\ 106\\ 106\\ 106\\ 106\\ 106\\ 106\\ 1$ | 00,110 |
| Town. | Accrington Barrow-in-Furness Birkenhead Blackpool Bootle Bootle Bournley Burnley Burnley Carlisle Crewe Crewe Dewsbury Huddersfield Kingston-on-Hull Lancaster Rotherham Stalybridge Stalybridge Stalybridge Stockport Stockport Stockport Stockport Stockenon-Trent Tottenham Wolverhampton York | |

TABLE III.

.

COMPARATIVE STATISTICS OF WIGAN AND TWENTY-THREE OTHER TOWNS.

| 1908 | 1909 | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 16.97 | 18.28 | 14.55 | 18.27 | 15.92 | 18.42 | 17.09 | 19.17 | 15.42 | 16.18 |

DEATH-RATE FOR WIGAN DURING THE LAST TEN YEARS.

Average for Ten Years, 17:02.

Infantile Mortality.—The number of deaths of children under one year is 240, or 118 per 1,000 births, and of children over one year and under five years 222, or 2.67 per 1,000 of the population.

These figures compare with 240 deaths under one year, a rate of 113 per 1,000 in 1916.

An analysis of these 240 deaths show that they may be grouped under the following headings :---

| I. | Premature Bi | rth, | Con | geni | tal 1 | Debil | ity, | Malı | iut- | |
|----|--------------|------|-------|-------|-------|-------|------|------|------|----|
| | rition, and | Con | genit | tal M | alfor | mat | ions | | | 91 |
| 2. | Diarrhœa | | | | | | | | | 19 |
| 3. | Bronchitis | | | | | | | | | 19 |
| 4. | Pneumonia | | | | | | | | | 32 |
| 5. | Measles | | | | | | | | | II |
| 6. | Whooping Cou | ıgh | | | | | | | | 15 |
| 7. | Other causes | | | | | | | | | 53 |

TABLE SHOWING METHOD OF FEEDING OF 240 INFANTS UNDER 1 YEAR, WHO DIED DURING 1917.

- 116 Entirely breast-fed.
- 31 Partly breast-fed.
- 7 Condensed Milk.
- 21 Cow's Milk.
- 17 Dried preparations.
- 11 Miscellaneous.
- 37 No feeding (lived 1-2 days only).
- 240

Senile Mortality.—The number of deaths of persons of 60 years of age and over is 383, or 4.68 per 1,000 of population.

| Ward. | Census Pop'l'tion | lst Quarter. | 2nd Quarter. | 3rd Quarter. | 4th Quarter. | Totals. | Rate. |
|--|----------------------|-----------------|-----------------|-----------------|-----------------|---------|-------|
| 1 - | 4,905 | 45 | 20 | 20 | 18 | 103 | 20.99 |
| 2 | 5,295 | 28 | 15 | 16 | 13 | 72 | 13.59 |
| $ \begin{array}{r} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \end{array} $ | 7,586 | 57 | 17 | 18 | 33 | 125 | 16.47 |
| 4 | 9,795 | 57 | 30 | 17 | 34 | 138 | 14.08 |
| 5 | 4,382 | 22 | 18 | îi | 32 | 83 | 18.94 |
| 6 | 5,413 | 17 | 22 | 11 | 16 | 66 | 12.19 |
| 7 | 4,836 | 31 | 18 | 12 | 23 | 84 | 11.37 |
| 8 | 12,378 | 53 | 40 | 28 | 32 | 153 | 12.36 |
| 9 | - 7,384 | 30 | 19 | 21 | 14 | 84 | 11.37 |
| 10 | 3,536 | 24 | 16 | 5 | 8 | 53 | 14.98 |
| 11 | 4,188 | 25 | 17 | 14 | 6 | 62 | 14.80 |
| 12 | 7,379 | 28 | 23 | 29 | 25 | 105 | 14.22 |
| 13 | 5,962 | 30 | 13 | 14 | 17 | 74 | 12.41 |
| 14 | 6,113 | 21 | 19 | 23 | 14 | 77 | 12.59 |
| Trans- ferable | | | and the star | | | | |
| Deaths | | 15 | 22 | 13 | 16 | 66 | |
| | Total | 483 | 309 | 252 | 301 | 1,345 | 16.18 |

No. OF DEATHS IN DIFFERENT WARDS IN WIGAN, 1917.

STATEMENT OF DEATHS OF NON-RESIDENTS OCCURRING IN WIGAN.

| Deaths from— | | Yea | irs. | |
|-------------------------------|-----|-------------|------|-----|
| Accidents | 28 | Under | 1 | 4 |
| Phthisis | 13 | 1 and under | 5 | 7 |
| Cancer | 11 | 5 ,, | 15 | 11 |
| Bronchitis | 6 | 15 ,, | 25 | 17 |
| Other Diseases of Respiratory | | 25 ,, | 35 | 8 |
| Organs | 1 | 35 ,, | 45 | 12 |
| Heart Failure | 16 | 45 ,, | 55 | 17 |
| Appendicitis | 6 | 55 ,, | 60 | 13 |
| Pneumonia | 15 | 60 " | 65 | 16 |
| Suicide | 1 | Over | 65 | 37 |
| Other diseases | 45 | | | |
| | 142 | | | 149 |

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TABLE I.—VITAL STATISTICS OF WHOLE DISTRICT DURING 1917 AND PREVIOUS YEARS. Name of District—Wigan County Borough.

| District | es | Rate | | 13 | | 15.92 | 18-42 | 17.09 | 19-17 | 15.42 | 16.18 | |
|---------------------------------------|-------------------------------|-------------------|--|-----------|---|--------|--------|--------|--------|--------|--------|----------------|
| I othe I | At all ages | Number | | 12 | | 1,441 | 1,687 | 1,588 | 1,655 | 2,108 | 1,345 | |
| Nett Deaths belonging to the District | ar of age | Rate per | | 11 | | 125 | 179 | 139 | 163 | 113 | 118 | . In the first |
| Nett Deat | Under 1 year of age | Number | | 10 | | 324 | 456 | 377 | 390 | 240 | 240 | |
| e Deaths | of Resi- dents not | in the | District | 6 | | 139 | 134 | 166 | 151 | 80 | 66 | |
| Transferable Deaths | of Non- residents | registered in the | District | 8 | | 74 | 83 | 105 | 94 | 114 | 145 | |
| | | Rate | | 7 | | 15.26 | 17.86 | 16-44 | 18.51 | 15.84 | 17.13 | |
| Total Dautho | Registered in the District | Number | The second secon | 9 | | 1,375 | 1,636 | 1,527 | 1,598 | 1,318 | 1,424 | |
| | | 1 | Rate | 5 | | 28.59 | 27.78 | 29.18 | 26-13 | 23-28 | 21.84 | - |
| Births | | TION | Number | 4 | | 2,588 | 2,544 | 2,710 | 2,384 | -2,108 | 2,024 | |
| | 4 | Un- | number | ŝ | | 2,564 | 2,529 | 2,690 | 2,375 | 2,095 | 2,010 | |
| | Pop'tion | estimated Un- | of each | year 2 | | 90,504 | 91,573 | 92,868 | 86,329 | 83,203 | 83,110 | |
| | | Van | | 1 | - | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | - |

*Calculated on Registrar-General's Estimated Population, July 1st, 1917—Deaths, 83,110; Births, 92,644.
 Area of District in Acres (land and inland water), 5,072.
 At Census, 1911: Total population at all ages, 89,152; Total families or separate occupiers, 16,979.
 (Figures given in Census special volume for the County, also in Vols. I., VI., and VIII. of the reports of the Census of England and Wales.)

TABLE II.—CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR, 1917. Name of District—Wigan County Borough.

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| Total | Cases emoved | to hospital. | | | 4 | | 701 | 29 | | | | : | | | | 113 | | 305 |
|---|--------------------|---|-----------|-----------------------|--------------------|------------|----------------|---------------|---------------------|---------------------|-----------------|------------|---------------|-----------------|---------|-------------------|--------------|--|
| | .dn | TS. Pen | : | : | 70 | 8 | 10 | : 01 | | | - | : | :: | - | 222 | 12 | 6 | 286 |
| | ·q | ≌0. Pen | : | : | 00 | 01 | T | : : | : | | : | : | 1 | . : | 228 | x | 6 | $202\ 255\ 331\ 289\ 154\ 238\ 119\ 557\ 244\ 111\ 205\ 350\ 268\ 286$ |
| ty. | .da | EN. Pen | : | : | ~ | 001 | AT | : 4 | : | : | : | : | 1 | :: | 312 | 0 | 3 | 350 |
| istri | .dm | ⊑w. Pe | : | : | 4 | C1 1 | 0 | . 20 | : | : | - | : | : | 67 | 163 | Ξ | 12 | 205 |
| sh lo he d | sta | EAlt Bai | : | : | 61 | 40 | N | : : | : | | : | - | .: | | 92 | x | 61 | 111 |
| of tj | À | olaiw80 | : | : | 6 | 90 | 0 | : 10 | : | : | : | : | : | 01 | 190 | 18 | 9 | 244 |
| tified in each locality Ward) of the district. | LOM | baå.18∞ | 1 : | : | 1 | | Ŧ | | | - | : | : | : | 3 | + | 333 | 13 | 557 |
| | Bİ | ~1Victor | : | : | - | - | | | : | : | | : | | _ | - | 14 | 12 | 119 |
| s no | yook | æ1009æ | 1 : | : | 4 | | 10 | | : | : | : | : | - | | panel. | Ξ | 6 | 238 |
| Total Cases notified in each locality (e.g., Parish or Ward) of the district | s,m | orSt.Tho | : | : | | CIL | | : : | : | : | : | - | : | - | - | 12 | 00 | 154 |
| tal (| aloir | as A.184 | : | : | 01 | 8 0 | | : : | : | : | : | : | _ | 4 | G1. | 53 | 27 | 289 |
| To ¹ (e.g. | ٦. | (1#D. Sco | : | : | - | 100 | | : 01 | : | : | : | : | - 8 | 4 | Q1 | 15 | 6 | 331 |
| | â | asbail01 | : | : | ~ | 010 | - | | : | | - | : | : | 4 | 52 | 10 | 6 | 255 |
| | olte | -8t. Geo | : | : | - | 01 2 | 2 | : ~ | : | - | _ | : | : | - | 163 | о , | 6 | 202 |
| | | 65 and up'rds. | : | : | | 9 | : | : : | : | | : | : | :: | | | 51 | : | 8 |
| | | and 45 and der under yrs. 65 yrs. | | : | : | 21 | : | : ~ | : | | : | : | | | | 43 | 50 | 69 |
| fied. | Years. | | : | : | 1 | = 1 | # | 12: | : | | ~ | | | | 6 | 89 | II | 120 |
| es Notified. | | 15 and 25 under un 25 yrs. 45 | : | : | 4 | 9 0 | 0 | : 10 | : | | - | 1 | | | 14 | 46 | 24 | 109 |
| of Cas | At Ages | 5 and under 15 yrs. | : | : | 13 | 100 | 100 | : | : | | : | : | :: | | 1019 | 27 | 70 | 1300 |
| Number of Cases | | 1 and under 5 yrs. | : | : | 20 | : 2 | 00 | :- | : | | : | | 3 | :: | 1682 | c1 | 24 | 1790 1300 |
| 4 | | Under 1 | : | : | 61 | :- | T | : : | - | | : | 1 | :: | 23 | 183 | : | 3 | 213 |
| | At . | | : | : | 40 | 48 | 107 | 29 | | | 4 | 67 | ~ | 23 | 2907 | 188 | 134 | 3609 |
| | Notifiable Disease | | Small-pox | Diphtheria (including | Membraneous Croup) | Erysipelas | Thurbus Forter | Enteric Fever | Relapsing Fever (R) | Continued Fever (C) | Puerperal Fever | Meningitis | Poliomyelitis | Ophthalmia Neon | Measles | Pul. Tuberculosis | Tuberculosis | TOTALS |

Isolation Hospital or Hospitals, Sanatoria, etc.-Wigan Sanatorium, Pemberton Hospital and Bowdon Sanatorium.

TABLE III.—DEATHS REGISTERED DURING THE CALENDAR YEAR 1917, CLASSIFIED BY AGE AND CAUSE. Name of District—Wigan County Borough.

+

| Causes of Death.All ages.Under 1 pear.1 and pears.2 and pears.5 and pears.15 and pears.56 and pears. $ontherpears.$ | • | Nett | | Deaths at the Subjoined Ages of "Residents" whether occurring within or without the District. | joined Ages of "Resider or without the District. | es of "Re t the Dis | ssidents" | whether c | ecurring | within | Total Deaths whether of "residents" |
|---|--------------------------|---------------|--|--|---|-----------------------------|------------------------------|------------------------------|------------------------------|----------|---|
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Causes of Death. | All ages. | Under 1 year. | 1 and under 2 years. | 2 and under 5 years. | 5 and under 15 years. | 15 and under 25 years. | 25 and under 45 years. | 45 and under 65 years. | | |
| Enteric Fever | ll Causes—Certified | 2 1345 | 3 240 | 4 119 | 5 103 | 65 | 70 67 | 8 171 | 9 295 | 10 28 | 321 |
| Enteric Fever | | | and the second s | | | | | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1-Enteric Fever | : | : | : | | | :: | :: | | : | : |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | wood-manie | :: | | | : | | : | | | | |
| Scattet Fever 36 15 14 7 1 3 1 36 15 14 7 36 15 14 7 36 15 14 7 36 15 14 7 36 11 36 11 36 11 36 11 36 11 | | 11 | II | 30 | 25 | 11 | :: | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | -Scarlet Fever | 5 | | · 1. | 3 | 1 | :: | | | | |
| -Diputation and Croup 6 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 1 1 4 1 1 4 1 1 4 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 1 4 1 1 1 4 1 1 1 4 1 1 1 1 1 1 4 1 <td></td> <td>36</td> <td>15</td> <td>14</td> <td>-</td> <td></td> <td>::</td> <td></td> <td></td> <td></td> <td></td> | | 36 | 15 | 14 | - | | :: | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | 90 | : | 1 | 4 | 1 | | | | | |
| -Eryspetas. 1 | | x | | I | 1 | | | 1 | 4 | . 1 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | ~ | 1 | | 1 | | 1 | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | 122 | | :: | | 10 | 28 | 49 | 28 | 2 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | 18 | 61 | 1 | 9 | 7 | 2 | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | 17 | 61 | 3 | 5 | 67 | 10 | 2 | 1 | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | T | 55 | | | | | 1 | | 39 | 12 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | T | 8 | | | 1 | 1 | 1 | 1 | 4 | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | 10 | 1 | 3 | ** | 1 | 1 | | 1 | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | -Organic Heart Disease | 73 | 61 | | | 1 | | 13 | 29 | 28 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | T | 133 | 19 | 8 | ** | 61 | 1 | 6 | 37 | 54 | |
| -Other Diseases of Resp. Org. $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | 175 | 32 | 30 | 28 | 9 | | 23 | 38 | 15 | |
| -Diarrhea and Enteritis \dots 41 29 12 \dots 25 \dots 27 \dots 29 12 \dots 27 \dots 27 \dots 27 \dots 27 \dots 29 \dots 29 \dots 29 \dots 20 \dots | -Other Diseases of Resp. | . 4 | | 1 | 1 | | | | | 07 | |
| Appendicitis and Typhilitis 4 2 1 1 | -Diarrhœa and Enterifis | 41 | 29 | 12 | | | | | | | |
| | | 4 | | | | 2 | 1 | - | | | |

TABLE III.—DEATHS REGISTERED DURING THE CALENDAR YEAR 1917, CLASSIFIED BY AGE AND CAUSE. Name of District—Wigan County Borough.

•

| | Total Deaths whether of "residents" | in ii | | | | : | | | :: | | | | : : | | |
|---------------------------|---|---|-----------------------------|----------------|-----|--|---------------------|---|------------|---|--------|--|----------------------------------|-------------------|---|
| | within | 65 and upwards. | 10 | : 10 | : | : | : | 9 | 146 | 1 | 28 | | | : | |
| | ccurring v | 45 and under 65 years. | 9 | | : | | | 13 | 6 | 17 | 295 | | | | |
| | whether o | 25 and under 45 years. | 8 | : | 1 | 11 | : | 12 | 30 5 | õ | 171 | | : | : | |
| | Nett Deaths at the Subjoined Ages of "Residents" whether occurring within or without the District. | 5 and under 1515 and bunder 2525 and under 4545 and bunder 65years.years.years.years. | | | 1 | 60 | | 5 | co 1:00 | : | 67 | | : | | |
| out farmo | es of "Re t the Dist | 5 and under 15 years. | 9 | : 00 | : | : | : | 6 | 9 | 53 | 65 | | : | : | |
| - ungenerate formed mega- | joined Ages of "Resider or without the District. | 2 and under 5 years. | 5 | : : | : | : | | 8 | :∞ | 4 | 103 | | : | : | |
| | the Subj | I and under 2 years. | 4 | :- | : | : | : | 63 | : 10 | 9 | 119 | | : | : | |
| Louiner to other | Deaths at | Under 1 year. | ~ | : : | : | : | 91 | : | 23 | 12 | 240 | | : | : | |
| | Nett | All ages. | 2 0 | 31 | 61 | 14 | 16 | 53 | 5 291 | 53 | 1345 | | : | : | - |
| | | Causes of Death. | 1 91_Cirrehosis of Liver | 21a-Alcoholism | 100 | 24-Other Accidents and Diseases of Pregnancy and Parturition 25-Congenital Debility and Mal- | formation, incl. Pr | 26-Violent Deaths, excluding Suicide | 27—Suicide | 29—Diseases Ill-defined or Un- known | TOTALS | Sub-entries (included in the above figures) : | 14-(a) Cerebro-Spinal Meningitis | 20-(a) ronomyenus | |

TABLE IV.—INFANT MORTALITY, 1917. NETT DEATHS FROM STATED CAUSES AT VARIOUS AGES UNDER 1 YEAR OF AGE. Name of District—Wigan County Borough.

| Cause of Death. | Under 1 week | 1-2 weeks | 2-3 weeks | 3-4 weeks | Total under 4 weeks | 4 weeks & under 3 months | 4 weeks 3 months 6 months 9 n $\&$ under $\&$ under $\&$ under $\&$ under $\&$ under $\&$ 3 months 6 months 9 months 12 | 6 months & under 9 months | 9 months & under 12 m'ths | 3 months 6 months 9 months 7 otal Deaths & under & under & under 6 months 9 months 12 m'ths 1 year |
|--|-----------------|--------------|--------------|--------------|---------------------------|--------------------------------|---|---------------------------------|---------------------------------|--|
| All Causes—Certified | 49 | 13 | 13 | ∞ : | 83 | 44 | 39 | 39 | 35 | 240 |
| Small-pox | | | | | - | - | | | : | : |
| Chicken-pox | | : : | : | : : | : : | | | : | :: | |
| Measles | | | | : : | : | | 67 | 5 | 4 | 11 |
| Scarlet Fever | | | | | | | : | | : | |
| Whooping Cough | | :: | :: | : | : | | 4 | 4 | - | 15 |
| Diphtheria and Croup | | | | | | | : | | | |
| Erysipelas | :: | | : | | : | | | 1 | | 1 |
| Tuberculous Meningitis | | | | | : | | | 1 | 1 | 51 |
| Abdominal Tuberculosis | | | | : | : | | | | | |
| Uther Tuberculous Diseases | | :: | | | | | 1 | I | :: | - F |
| Meningitis (not 1 ubercutous) | | | | | | | : | | | 1 |
| Convulsions | | | 1 | 1 | 57 | T | | 1 | 4 | × |
| Laryngitis | : | : | : | :: | : | | | | : | |
| Bronchitis | | 61 | 63 | : | 4 | 9 | 4 | .0 | 51 | 19 |
| Pneumonia (all forms) | | | | 63 | 61 | 03 | 4 | 15 | 00 | 32 |
| Diarrhea | | | 1 | :: | 1 | 1 | 3 | 4 | 4 | 19 |
| Enteritis | | | | | | 1 | 5 | 67 | 63 | 10 |
| Gastritis | | | | | | 1 | 63 | | | 3 |
| Syphilis | | | | :: | : | 1 | | | :: | 1 |
| Rickets | | | | | :: | | | | | |
| Suffocation, overlying | | | | | | | | | | |
| Injury at Birth | 1 | :: | | | 1 | | | | | 1 |
| Atelectasis | 67 | | | | 67 | | | | | 61 |
| Congenital Malformations | 1 | 1 | 1 | | 6 | 5 | 1 | | | 15 |
| Premature Birth | 26 | 4 | 1 | 1 | 32 | 3 | | | | 35 |
| Atrophy, Debility and Marasmus | 1 | 33 | 4 | ~ | 17 | 14 | 6 | | 1. | 41 |
| Other Causes | 9 | 60 | 3 | : | 12 | 63 | 4 | 63 | 63 | 22 |
| TOTAL | 49 | 13 | 13 | 8 | 83 | 44 | 39 | 39 | 35 | 240 |
| Nett Births registered during the calendar vear—I writimate | luring the | calendar | vear_L. | oritimata | 1 939 : | Illecitimate 92 | 99 | | Ì | |
| Nett Deaths registered during the calendar year_I withmate | during th | e calenda | r vear_I | aritimate | Tufante | 008 · Illewitimete Infante 10 | ritimata T | nfante 16 | | |
| manna and a second and a second as | Ormann | | Thomas I | AND TITLE AD | 'summer' | ATT 1 0000 | * on printing of | internet | ; | 1.1.1 |

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Inquests and Uncertificated Deaths.

The number of Inquests for 1917 is 135 against 131 for 1916 and 147 for 1915, and the following verdicts have been recorded :---

| | Natural Causes | i |
|-----|---|---|
| 2. | Accidents-burnt | 1 |
| | " scalded | |
| | " colliery | 1 |
| | vehicle or car | |
| | " drowned | |
| | ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | " falls | |
| | " railway | |
| | ,, mill | |
| | fell downstairs | |
| | " others | 1 |
| | Suicides—cut throat | - |
| ł., | | |
| | " drowned | |
| | " hanging | |
| | , others | - |
| | Others | |
| • | | |
| | Murder | |

We have no uncertified deaths in 1917 against 1 in 1916 and 2 in 1915.

DEATHS OCCURRING AMONGST SOLDIERS.

These were 5 in number; one being from Nephritis, one each from Apoplexy, Pulmonary Tuberculosis, Cerebro-spinal Meningitis, and injuries through fall over iron railings.

Acute Infectious Diseases.

I.-ZYMOTIC DISEASES.

The Mortality from the seven principal Zymotic Diseases, namely, Small-pox, Scarlet Fever, Measles, Whooping Cough, Fever (Enteric and Typhus), Diphtheria, and Diarrhœa, gives us a rate of 1.84 per 1,000 of the population against 1.04 in 19-6.

The deaths numbered 153 as against 87 in 1916.

The epidemic of Scarlet Fever which marked the previous year has subsided, and was the cause of only 5 deaths as against 15.

On the other hand, there has been a very s rious increase of Measles, which has caused 77 deaths during the year.

Only 29 cases of Enteric Fever were notified, and there were no deaths from this cause.

There was also a satisfactory decline in the number of deaths from Diarrhœa.

The treatment of Phthisis has proceeded on the same lines as in previous years, and particulars will be found in the Tuberculosis Officer's report.

| | 1917 | 1916 |
|----------------|------|------|
| Small-pox | | |
| Scarlet Fever | ·06 | .18 |
| Measles | .92 | •01 |
| Whooping Cough | .43 | .04 |
| Typhus Fever | | |
| Enteric Fever | | .22 |
| Diphtheria | .07 | .09 |
| Diarrhœa | .34 | .42 |
| | | |

The Zymotic-rate during each of the four quarters was :--

| | 1917 | 1916 |
|-------------------------|------|--------|
| st Quarter | | · 1.15 |
| nd ,, rd ,, th ,. | | .95 |
| rd ", | | 1.43 |
| th ,, | 1.61 | .88 |

TABLE OF ZYMOTICS.

| | Notified. | Died. | Case Mortality %. |
|----------------|-----------|-------|----------------------|
| Small-pox | | | |
| Scarlet Fever | 231 | 5 | 2.16 |
| Enteric Fever | 29 | | |
| Diphtheria | 40 | 6 | .15 |
| Measles | 2,907 | 77 | 2.78 |
| Whooping Cough | | 36 | |
| Diarrhœa | | 29 | |

The following table shows comparatively the Sickness Rates per 1,000 of the population of the principal Infectious Diseases in England and Wales, and in Wigan, during the year 1917 :—

| | England & Wales. No. of Cases Notified. | England and Wales. | Wigan. |
|----------------------------|---|-----------------------|--------|
| Tuberculosis (Pulmonary) | 73,654 | 2.18 | 2.26 |
| Tuberculosis (other forms) | | 0.66 | 1.61 |
| Small-pox | | 0.00 | |
| Typhus Fever | 4 | 0.00 | |
| Scarlet Fever | 48,817 | 1.45 | 2.77 |
| Diphtheria | | 1.28 | .48 |
| Enteric Fever | 4,601 | 0.14 | •33 |
| Puerperal Fever | | 0.04 | .04 |
| Erysipelas | | 0.40 | .57 |
| Cerebro-Spinal Fever | | 0.04 | .02 |
| Poliomyelitis | | 0.01 | · ·03 |
| Continued Fever | 58 | 0.00 | |
| *Ophthalmia Neonatorum | | 10.05 | ·24 |
| Measles and German Measles | | 15.84 | 34.97 |

*Rate per 1,000 Births.

| Disease. | 1908 | 1909 | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|
| Small-pox | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | (|
| Typhus | | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | (|
| Scarlet | | 730 | 395 | 176 | 142 | 71 | 222 | 1608 | 820 | 231 |
| Enteric | 103 | . 93 | 128 | 151 | 73 | 97 | 67 | 45 | 89 | 29 |
| Continued | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (|
| Diphtheria | 36 | 34 | 38 | 66 | 38 | 34 | 43 | 37 | 37 | 40 |
| Puerperal | | 8 | 4 | 7 | 4 | 6 | 5 | 4 | 6 | 4 |
| Cholera | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (|
| Erysipelas | | 75 | 70 | 84 | 47 | 56 | 82 | 83 | 60 | 4 |
| Ophthalmia Neonatorum | | 0 | 0 | 0 | 6 | 0 | 0 | 1 | 13 | 23 |
| Acute Poliomyelitis | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 1 | 0 | |
| Cerebro-Spinal Meningitis | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | |
| Measles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 285 | 290 |
| Pulmonary Tuberculosis | 0 | 0 | 0 | 0 | 217 | 207 | 236 | 233 | 178 | 18 |
| Other Forms of Tuberculosis | Õ | 0 | Ő | 0 | 0 | 61 | 124 | | | |
| Total | 442 | 940 | 635 | 941 | 553 | 549 | 803 | 2151 | 1580 | 360 |

Number of Notifications, including Civil and Military Cases, compared with other years :---

ANALYSIS OF NOTIFICATIONS, 1917.

| and the second | reb. | Mar. | Apr. | May | Jun. | J'ly. | Aug. | Sept | Oct. | Nov. | Dec. | Tot. |
|----------------|---|---|---|---|--|---|---|---|---|---|---|---|
| 28 | 17 | 20 | 9 | 22 | 24 | 17 | 20 | 22 | 17 | 24 | 11 | 231 |
| 1 | 4 | 2 | 3 | 1 | 1 | 4 | 2 | 3 | 4 | 4 | - | 29 |
| 4 | 5 | 9 | 4 | 1 | 2 | 1 | 3 | - | 3 | 5 | 3 | 40 |
| | - | - | - | - | 1 | - | 1 | | - | 1 | - | 4 |
| | 3 | 7 | 9 | 5 | 2 | 4 | 1 | 1 | 3 | 4 | 4 | 48 |
| | | | | | | | | | | - | | |
| - | | 1 | - | - | - | - | - | - | | 1 | - | 2 |
| | 2 | 2 | 2 | 3 | 2 | 3 | 1 | 5 | 1 | 1 | - | 23 |
| | | | | | | | | | | | | |
| - | - | - | - | - | 1 | 1 | 1 | - | - | - | | 3 |
| | 820 | .758 | 174 | 132 | 245 | 187 | 94 | 46 | 89 | 114 | 38 | 2907 |
| 15 | 15 | 19 | | 31 | 11 | 19 | 15 | 8 | 10 | 2 | 13 | 188 |
| | | | | | | | | | | | | |
| 18 | 18 | 13 | 13 | 31 | 4 | 18 | 4 | 1 | 1 | 9 | 4 | 134 |
| | 004 | 001 | 011 | 000 | 000 | | 140 | | 100 | 100 | | 0.000 |
| 283 | 884 | 831 | 244 | 226 | 293 | 234 | 142 | 86 | 128 | 165 | 73 | 3609 |
| | 1 4 1 5 - 1 210 15 18 | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |

SMALL-POX.

We have had no cases of Small-pox during the year.

VACCINATION RETURNS, 1915-1916.

The following Vaccination Returns have been supplied to me by the Vaccination Officer, Mr. R. Halliwell, J.P. :---

| | 1916 | 1915 |
|---|------|------|
| Births Registered | 1466 | 1743 |
| Successfully Vaccinated | 662 | 761 |
| Insusceptible | 1 | 3 |
| Exemptions, Section 2, 1899 | 642 | 741 |
| Died, Unvaccinated | 104 | 140 |
| Postponed by Certificates | | |
| Left Town and Reported to other Districts | 1 | 8 |
| Cannot Trace | 5 | 23 |
| Refusals and Not Accounted for | 51 | 67 |

| Total Num | per of Successf | ful Vaccina | ations (all ages | s) 19081738 |
|-----------|-----------------|-------------|------------------|-------------|
| " | | ,, | " | 19091371 |
| ,, | | ., | . n | 19101266 |
| . ,, | | ,, | ,, | 19111118 |
| ., | | ,, | " | 19121153 |
| " | | " | " | 1913 895 |
| ,, | | " | ` 11 | 1914 860 |
| " | | " | " | 1915 860 |
| " | | ,, | " | 1916 769 |
| " | | " | " | 1917 736 |

The continued decline in the number of infants vaccinated is most regrettable, and should Small-pox appear in the Borough will have its inevitable consequence.

SCARLET FEVER.

| Number of Notifications | 231 |
|-------------------------|-----|
| Number of Deaths | 5 |
| Death-rate per 1,000 | ·06 |

The number of notifications of this disease is, for 1917, 231, against 820 in 1916. Five deaths occurred, giving a rate of $\cdot c6$ as against 15 deaths with a rate of $\cdot 18$ in 1916.

| 1917 | Jan. | Feb. | Mar. | Apr. | May | Jun. | July | Aug. | Sept | Oct. | Nov. | Dec. | Tot. |
|-----------------------------|------|------|------|------|-----|------|------|------|------|------|------|------|------|
| Notifications Removed to | 28 | 17 | 20 | 9 | 22 | 24 | 17 | 20 | 22 | 17 | 24 | 11 | 231 |
| Hospital | 14 | 9 | 15 | 6 | 19 | 15 | 15 | 15 | 16 | 13 | 18 | 7 | 162 |
| Deaths | 1 | - | - | - | - | 1 | 1 | - | 1 | 1 | - | - | 5 |

The percentage of removals to Sanatorium has been 70.01 against 57.68 in 1916 and 52.23 in 1915.

We have 5 deaths amongst those notified; 4 occurred in hospital; giving a fatality-rate of 2.46 of hospital-treated cases as against 1.90 in 1916.

AGE INCIDENCE OF SCARLET FEVER.

| MONTHS. YEARS. | Ages | 0 1 0 6 17 13 22 34 23 26 17 18 41 8 5 23 231 | | 58 | 118 | 54 | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | $\dots \ \dots \ \dots \ 16 \cdot 6 \ \dots \ 15 \cdot 38 \cdot 54 \ \dots \ 4 \cdot 34 \ \dots \ $ | |
|----------------|-------|---|--------------|-------------------|-----------------|---------------|--|--------------------------|---|------------------|
| EARS | 88 | | | - | | | | | | |
| A | -1 1- | | | - | Ξ | | | | 34 | - |
| - | -9 9- | | | -) | | | 40 | : | . 4. | |
| | 5 5 | | | | | | 26 | | | |
| | 4 4 | | - | | | | | 61 | 384. | |
| | 3 3 | | - | - 28 | | | | | 15. | |
| | 22 | | _ | - | | | | : | | |
| - | 2 1- | | .) | | | | • | - | | |
| | 9 9-1 |) | | | | | | | | |
| NTHS | 9.9 | | | | | | | | | : |
| Mo | 3 | - | | | | | : | ': | : | |
| | 1 | •) | | | | | : | : | | |
| | ges | Total Number of Notifications | Under 1 year | From 1 to 5 years | " 5 to 10 years | Over 10 years | Sickness rate per 1,000 of the Population at each age | Deaths at different ages | Percentage Mortality | All under 1 year |

| M | E. | Λ. | C ¹ T | T | d |
|---|----------------|----|------------------|----|----|
| M | E _c | 2. | 21 | 11 | D. |

| | Jan. | Feb. | Mar. | Apr. | May | Jun. | July | Aug. | Sept | Oct. | Nov. | Dec. | Tot. |
|---|------|--------|--------|-------|-------|-----------------|-------|--------------|--------|--------------|---------------|------|-----------------|
| Deaths in 1917 Deaths in 1916 Notifications, 1917 | 1 | 28 | 17 | 9 | 2 | $\frac{6}{245}$ | 3 | 3 - 94 | 2 - 46 | 1 - 89 | 2 - 114 | | 77 1 2907 |

WHOOPING COUGH.

| | Jan. | Feb. | Mar. | Apr. | May | Jun. | July | Aug. | Sept | Oct. | Nov. | Dec. | Trans. | Tot. |
|-------------------|------|------|------|------|-----|------|------|------|------|------|------|------|--------|------|
| Deaths in 1917 | 1 | 5 | 4 | 1 | - | - | 1 | - | - | 2 | 2 | 20 | - | 36 |
| Deaths in 1916 | - | 1 | 1 | - | - | 1 | 1 | - | 1 | - | - | - | - | 4 |

ENTERIC FEVER.

| Number of Notifications | 29 |
|-----------------------------------|----|
| Number of Deaths | |
| Mortality per 1,000 of Population | - |
| Removed to Sanatorium | 29 |

We have for 1917, 29 notifications against 89 in 1916 and 45 in 1915. A few of the cases removed to the Sanatorium turned out to be cases of other febrile diseases.

We had no deaths in 1917 against a rate of 21.34 per cent. in 1916 and 20.00 per cent. in 1915.

| | Jan. | Feb. | Mar. | Apr. | May | Jun. | July | Aug. | Sept | Oct. | Nov. | Dec. | Trans. | Tot. |
|---------------------|------|------|------|------|-----|------|------|------|------|------|------|------|--------|------|
| Notifi- cations | 1 | 4 | 2 | 3 | 1 | 1 | 4 | 2 | 3 | 4 | 4 | - | - | 29 |
| Removed to San'm | 2 | 4 | 3 | 3 | 1 | 1 | 2 | 1 | 3 | 4 | • 5 | - | - | 29 |
| Deaths | - | - | - | - | - | · _ | - | - | - | - | - | - | - | - |

We had 46 specimens of blood examined at the Thompson-Yates Laboratory, Liverpool, with the following result :- Pesitive re-action, 23; negative re-action, 23.

INCIDENCE OF ENTERIC FEVER FOR TEN YEARS.

| | 1908 | 1909 | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 |
|--|------|------|------|------|------|------|------|------|------|------|
| Notified Cases Deaths Death rate per 1,000 | 26 | 18 | | 29 | | | 17 | | 19 | - |

| | 100 | | |
|--------|-----------|-----------|------------|
| ACE | NCT | DENCE- | YEARS |
| TTOTES | A 74 0 41 | CANER CAN | A LOUGHTON |

| 1-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30 & Over. |
|-----|-----|-------|-------|-------|-------|------------|
| 1 | 4 | 3 | 5 | - | 2 | 14 |

Total Cases, 29.

The age incidence shows the greatest number of cases has occurred in persons of 30 years and over, and the next larger in cases from 15 to 10 years.

Houses in which cases have occurred with-

| Privy Middens | 11 |
|---------------------|----|
| Pails | 10 |
| Waste Water Closets | - |
| Water Closets | 8 |

| Number of Privy | Middens, Ashpits and | Cesspools in | Wigan 7 |
|-----------------|----------------------|--------------|---------------|
| | " | | Pemberton1580 |

ENTERIC FEVER.

| Cases in Houses | with Insanitary Conditions and Surroundings | 3 |
|-----------------|---|------|
| ,, | Other Defects | 4 |
| ,, | where No Defects were found | 22 |
| | | - |
| | | 29 |
| | | 1.00 |

List of Streets in Wigan where cases of Enteric Fever have occurred :---

| Baron Street | 2 | Lower Morris Street 1 |
|---------------------|---|-----------------------|
| Bold Street | 1 | Margaret Street 1 |
| Derby Street | 1 | New Square 2 |
| Eleanor Street | 1 | Park Road 1 |
| Field Street | 1 | Rylands Street 1 |
| Foundry Street | 1 | Wigan Lane 1 |
| Great George Street | 1 | Woodhouse Lane 1 |
| Holme Terrace | 2 | |
| | | |

List of Streets in Pemberton where cases of Enteric Fever have occurred :---

| Carlton Street | 1 | New Row 1 |
|----------------|---|-------------------|
| City Road | | Turner's Yard 1 |
| Gaskell's Yard | 1 | Warrington Road 1 |
| Marsh Green | 3 | Wood Street 1 |

DIARRHŒA.

| | 1917 | 1916 |
|-----------------------------------|------|------|
| Number of Deaths | 29 | 40 |
| Mortality per 1,000 of Population | | ·48 |

AGE INCIDENCE, 1917.

| | Jan. | Feb. | Mar. | Apr. | May | Jun. | July | Aug. | Sept | Oct. | Nov. | Dec. | Tot. |
|---------------------------------------|------|-------|------|------|-----|-------|-------------|-------------|-------------|-------------|-------------|-------|---------------|
| 0-1 year 1-5 years Over 5 years | | - 1 - | | | | 1 1 1 | 3 1 - | 9 3 - | 6 3 - | 1 1 - | - 1 - | 1 1 1 | 19 10 - |
| Total | - | 1 | - | - | - | - | 4 | 12 | 9 | 2 | 1 | - | 29 |

DIPHTHERIA.

We have had a larger number of cases notified, namely, 40 against 37 in 1916; and the mortality is .07 per 1,000 of the population against .09 in 1916.

The following table shows the number of cases notified and the number of deaths :---

| 1917 | Jan. | Feb. | Mar. | Apr. | May | Jun. | July | Aug. | Sept | Oct. | Nov. | Dec. | Tot. |
|----------|------|------|------|------|-----|------|------|------|------|------|------|------|------|
| Notified | 4 | 5 | 9 | 4 | 1 | 2 | 1 | 3 | - | 3 | 5 | 3 | 40 |
| Deaths | 1 | 1 | 1 | - | 1 | - | - | - | - | 1 | 1 | - | 6 |

The following is the result of the examinations bacteriologically made at the Thompson-Yates Laboratory :---

^{11.—}Other Infectious Diseases.

CEREBRO-SPINAL FEVER & ACUTE POLIOMYELITIS.

Two cases of Cerebro-spinal Fever and 3 cases of Poliomyelitis were notified.

ERYSIPELAS.

| Number of Cases Notified | 48 |
|-----------------------------------|-----|
| Number of Deaths | 3 |
| Mortality per 1,000 of Population | .03 |

We have a smaller number of notifications than in 1916, and we have 3 deaths.

| Cases in | Houses with | Insanitary Surroundings | 1 |
|----------|-------------|-------------------------|----|
| | ,, | Defects | |
| | ,, | No Defects | 44 |

PUERPERAL FEVER.

| Number of Cases Notified | 4 |
|-----------------------------------|------------|
| Number of Deaths | 2 |
| Mortality per 1,000 of Population | $\cdot 02$ |

VENEREAL DISEASES.

ROYAL ALBERT EDWARD INFIRMARY, WIGAN.

VENEREAL DISEASES.

ANNUAL RETURN relating to PERSONS DISCHARGED from the Treatment Centre during the year ending on the 31st December, 1917.

Return of Persons who were discharged after the completion of treatment during the year ending 31st December, 1917, and who resided in the County or County Borough of Wigan.

Treatment Centre at Royal Albert Edward Infirmary, Wigan.

| | Syp | hilis | So Cha | oft ncre | Gonor | rrhœa | То | tal |
|--|------------------|-------|-----------|-------------|-------|-------|-----|-----|
| 1. Number of persons who we | | F. | М. | F. | м. | | M. | F. |
| discharged as above | 32 | 14 | - | - | 3 | 1 | 36 | 15 |
| 2. Total duration of treatment such persons in days | | 145 | 6 | - | 8 | 4 | 152 | 149 |
| 3. Aggregate number of attend ances of such persons a Out-patient Clinic | at | 5.5 | - | - | - | - | 5.8 | 5.7 |
| 4. Number of such persons wh were treated as in-patien | | - | - | - | - | - | - | - |
| 5. Aggregate number of "in patient days" for suc persons | h | - | - | - | _ | - | - | - |
| 6. Number of such persons treate with Salvarsan substitutes. | | 14 | 1 | - | Ŧ | | 32 | 14 |
| 7. Number of doses given of suc substitutes | | 74 | 3 | - | - | - | 148 | 74 |
| | ADDEN | NDUM. | | | | | | |
| Number of persons who were under treatment at the Out-patier Clinic, but who ceased to attend before treatment was completed | nt to 3 as | 2 | - | - | - | - | - | - |

(Signed) R. PROSSER WHITE, Medical Officer of the Treatment Centre.

January 21st, 1918.

ROYAL ALBERT EDWARD INFIRMARY, WIGAN.

VENEREAL DISEASES.

ANNUAL RETURN by the Medical Officer of Health of the Treatment Centre. To the Medical Officer of Health of the County or County Borough of Wigan.

Return relating to persons residing in the County or County Borough of Wigan who were treated at the Treatment Centre at Wigan Infirmary during the year ending on the 31st December, 1917.

 Number of persons dealt with at or in connection with the Out-patient Clinic for the first time and found to be :---

| | Males. | Females. |
|-------------------------------------|---------|----------|
| Suffering from Syphilis | 37 | 21 |
| " Soft Chancre* | 1 | - |
| " Gonorrhœa | 3 | 1 |
| Not suffering from Venereal Disease | 2 | 1 |
| Total | 43 | 23 |
| | Real of | Andre |

2. Number of persons discharged from the Out-patient Clinic after completion of treatment for :---

| | , Males. | Females. |
|--------------|----------|----------|
| Syphilis | 32 | 14 |
| Soft Chancre | 1 | - ' |
| Gonorrhœa | 3 | 1 |
| Total | 36 | 15 |
| | | |

3. Number of persons who ceased to attend the Out-patient Clinic without completing treatment and who were suffering from :---

| | Males. | Females. |
|--------------|--------|----------|
| Syphilis | 3 | 2 |
| Soft Chancre | - | - |
| Gonorrhœa | - | - |
| | | |
| Total | 3 | 2 |
| | - | - |

| Total attendances of all persons at the Out-patient Clini | c who we | re :— |
|---|----------|----------|
| | Males. | Females. |
| Suffering from Syphilis | 136 | 144 |
| " Soft Chancre | 6 | - |
| " Gonorrhœa | 8 | 4 |
| Not found to be suffering from Venereal Disease | 2 | 1 |
| Total | 152 | 149 |

4.

| uffering from :— | | | Males. | Females. |
|----------------------|-------------------|---------|--------|----------|
| Syphilis (commen | nces on Feb. 1st, | , 1918) | | |
| Gonorrhœa | do. | | | |
| | Total | | - | |
| | | | | - |

| | tende to entropy of the colleger entropy in period | Males. | Females. |
|----|--|--------|----------|
| 6. | Number of persons treated with Salvarsan Substitutes | 32 | 14 |
| | | - | - |

7. Number of doess of Salvarsan Substitutes given :---

5

| Name of Drug. Num | ber of Doses. |
|------------------------------|---------------|
| Hectinedose 40 c.g | 66 |
| Galyldose 40 c.g | 96 |
| - Neo. Salvarsandose ·06 grm | 60 |
| Lambkindose m.m | 114 |

8. Examinations of Pathological Material :---

(a) Specimens from persons attending at the Treatment Centre which were examined at this Centre :— Number.

| | 11 11110001 |
|------------------------------|-----------------------|
| For detection of Spirochetes | - |
| " detection of Gonococci | - |
| " Wassermann re-action | 2 |
| Others | - |
| Total | 2 |
| | and the second second |

| | Number. |
|------------------------------|---------|
| For detection of Spirochetes | 2 |
| " detection of Gonococci | |
| " Wassermann re-action | - |
| Others | 15 |
| Total | 17 |

(Signed) R. PROSSER WHITE,

Medical Officer of the Treatment Centre.

.

January, 1918.

ROYAL ALBERT EDWARD INFIRMARY, WIGAN.

VENEREAL DISEASES.

ANNUAL STATEMENT showing services rendered at the Treatment Centre for persons residing in the several Counties and County Boroughs served by the Centre, together with particulars of the total cost of the work of the Centre, during the year ending on the 31st December, 1917.

| County or County Borough. | No. of Attendances at out-patient | Aggregate No. of "in-patient days." | No. of doses of Salvarsan substitutes used in Treatment | | | rial | |
|---------------------------------|--|--|---|---|----|------|----|
| | Clinic. | | Centre. | | G, | w | 0, |
| Wigan | 301 | - | 222 | - | - | 2 | - |
| Total | 301 | - | 222 | - | - | 2 | - |

s, for detection of Spirochetes.

G, for detection of Gonococci.

w, for Wassermann re-action.

o, Other Tests.

£ s. d. Total cost of Out-patient Clinic 142 14 7 Total cost of In-patient Treatment

Cost of examination of Pathological Material made at Treatment Centre (where separate accounts are kept) :---

£ s. d.

- For detection of Spirochetes
 For detection of Gonococci......
- 3. For Wassermann re-action
- 4. For Other Tests

£ s. d.

Cost of Salvarsan Substitutes used at Treatment Centre

(Signed) R. PROSSER WHITE,

Medical Officer of the Treatment Centre.

January, 1918.

The Work of the Hospitals.

1.-HOSPITAL FOR ACUTE INFECTIOUS CASES, WHELLEY.

100 Beds.

RESIDENT STAFF IN 1917.

Matron. Housekeeper.

- 5 Nurses.
- Probationers. 7

- 2 Ward-maids.
- 1 Kitchen-maid.

1 Laundress. 2 Assistant Laundresses.

1 House-maid Waitress.

1 Scullery-maid.

- 1 Porter and Gardener.
 - 1 Assistant Gardener.

| | Notifications | Remo | oved to pital | Died in Hospital | |
|---------------------------|---------------|------|------------------------|---------------------|---|
| | | | Out-dist. patients. | | |
| Small-pox | | | | | |
| Typhus | | | | | |
| Scarlet Fever | 231 | 166 | 7 | 4 | |
| Enteric | | 29 | 14 | - | 2 |
| | | 20 | | | - |
| Diphtheria | 40 | | | 1 | |
| Puerperal Fever | | | | | |
| Cholera | | | | | |
| Membraneous Croup | | | | | |
| Erysipelas | 1.02 | | | | |
| Ophthalmia Neonatorum | 23 | | | | |
| Acute Poliomyelitis | | | | | |
| | | | | | |
| Cerebro-Spinal Meningitis | | | | | |
| Pulmonary Tuberculosis | | 113 | 28 | 11 | 1 |
| Other Tuberculosis | 134 | | | | |
| *Others | | 43 | 2 | 2 | |
| Measles | 2907 | | | 5 | |
| Totals | 3609 | 351 | 51 | 23 | 3 |
| | | 402 | | 26 | |

* The 43 Others include Diphtheria and Measles.

In the Whelley Hospital on December 31st, 1917, there were 23 patients, namely, Scarlet Fever 16, Enteric Fever 3, other diseases 4.

| Whelley Hospital. | Small-pox. | Ecarlet. | Enteric. | Others. | Total. |
|---|------------|---|---|------------------|--------------------------|
| In-patients, Jan. 1, 1917 Admitted in 1917 Discharged ,, Died ,, | | $\begin{array}{r} 44\\173\\197\\4\end{array}$ | $ \begin{array}{r} 7 \\ 43 \\ 42 \\ 2 \end{array} $ | . 45 24 20 | $51 \\ 261 \\ 263 \\ 26$ |
| In-patients, Jan. 1, 1918 | | 16 | 3 | 4 | 23 |

The number of deaths in the Whelley Hospital was 26; 4 died from Scarlet Fever, 2 from Enteric, and 20 from other diseases, as against 9 deaths from Scarlet Fever, 13 from Enteric Fever, and 3 from other diseases, in 1916.

WHELLEY SANATORIUM-TABLE OF ADMISSIONS AND DISCHARGES FOR 1917.

| | Total | | 26 |
|------------|------------------------------|--|-------|
| i. | Others ' | | 20 |
| | Ty- phus | | .: |
| Died. | En- teric | | 67 |
| | Small-Scarlet pox Fever | · · · · · · · · · · · · · · · · · · · | 4 |
| | Small- pox | | : |
| | Total | $ \begin{array}{c} 24\\ 22\\ 24\\ 22\\ 23\\ 23\\ 24\\ 23\\ 24\\ 16\\ 16\\ 16\\ 16\\ 12\\ 22\\ 22\\ 22\\ 22\\ 22\\ 22\\ 22\\ 22\\ 22$ | 263 |
| | Others | : :: | 24 |
| arged. | Ty- phus | | : |
| Discharged | En- teric | 1-01010 001001000 | 42 |
| | Small-Scarlet pox Fever | $ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ | 197 |
| F | Small- pox | :::::::::::: | : |
| | Total | $^{225}_{223}$ | 261 |
| | Ty- phus Others Total | - 2 2 - 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 45 |
| tted. | Ty- phus | | : |
| Admitted. | En- teric | 01 4 10 10 01 00 4 4 00 10 CO : | 43 |
| | Small-Scarlet En- | 112 112 112 112 112 112 112 112 112 112 | 173 |
| | Small- pox | | : |
| | 1917. | January February March April July July August September October November . | Total |

7 cases of Scarlet Fever, 14 Enteric, 1 Cerebro-Spinal Fever, and 1 Measles were removed from Outside Districts to the Sanatorium, and are included in the Table.

14.14

2.—PEMBERTON CONSUMPTION HOSPITAL.

22 Beds.

STAFF. Sister-in-Charge. 2 Assistant Nurses. Ward-maid. Cook. Porter-Gardener. Laundress. Assistant-Gardener. Kitchen-maid.

PARTICULARS OF ADMISSIONS AND DISCHARGES, BOROUGH PATIENTS.

| | Insured. | | nsured. Non-Insured. | | Children under 16. | | Total. | |
|--------------------|----------------|---------|----------------------|----|-----------------------|--------|--------|--|
| | м. | F. | м. | F. | м. | F. | | |
| Admitted | 59 | 21 | 3 | 12 | 5 | 14 | 114 | |
| Discharged Died | $\frac{55}{1}$ | 19 2 | 2 - | 14 | 5 | 9 2 | 104 5 | |

COUNTY PATIENTS.

| | Insured. | | Non-Insured. | | Children under 16. | | Total. |
|--------------------------------|-------------|-------------|--------------|---------------|-----------------------|-------------|---------------|
| | М. | F. | М. | F. | М. | F. | |
| Admitted Discharged Died | 4 7 - | 4 3 - | 3 4 - | 10 13 - | 3 - - | 5 1 1 | 29 28 1 |

TOTAL PATIENTS TREATED.

| Insured. | | red. Non-Insured. | | Children under 16. | | Total. | |
|----------|-----------------|-------------------|--|---|--|---|--|
| М. | F, | м. | F. | М. | F. | | |
| 63 62 | $\frac{25}{22}$ | 6 6 | 22 27 | 8 5 | 19 10 | 143 132 | |
| | м. 63 | M. F. | M. F. M. 63 25 6 62 22 6 | M. F. M. F. 63 25 6 22 62 22 6 27 | Insured. Non-Insured. under M. F. M. F. M. 63 25 6 22 8 62 22 6 27 5 | Insured. Non-Insured. under 16. M. F. M. F. 63 25 6 22 8 19 62 22 6 27 5 10 | |

| Patients | in on January 1st, | 1917 | 15 |
|----------|--------------------|-----------|-----|
| ,, | admitted | 1917 | 143 |
| ,, | discharged | 1917 | 132 |
| " | died | 1917 | 6 |
| ,, | remaining January | 1st, 1918 | 20 |

6 patients left the Hospital on their own accord. Transferred to Whelley, 4. To Bowdon, 1.

CONDITION OF DISCHARGE.

| | Insured. | | Insured. Non-Insured. | | Children under 16. | | Total. |
|--------------------------|--------------------------------------|---------|-----------------------|---------|-----------------------|----|----------|
| | м, | F. | м. | F. | м. | F. | |
| Improved Non-improved | $\begin{array}{c} 43\\12\end{array}$ | 17 2 | 2 _ | 10 4 | $\frac{3}{2}$ | 72 | 82 22 |
| Total | 55 | 19 | 2 | 14 | 5 | 9 | 104 |

BOROUGH PATIENTS.

COUNTY PATIENTS.

.

| | Insured. | | Non-Insured. | | Children under 16. | | Total. |
|--------------------------|----------|---------------|--------------|--------|-----------------------|----|----------|
| | М. | F. | м. | F. | М. | F. | |
| Improved Non-improved | 2 5 | $\frac{1}{2}$ | 2 2 | 8 5 | · | 1 | 14 14 |
| Total | 7 | 3 | 4 | 13 | - | 1 | 28 |

| TOTAL PATIENTS DISC | CHARGED. |
|---------------------|----------|
|---------------------|----------|

| | Insured. | | Non-Insured. | | Children under 16. | | Total. | |
|--------------------------|----------|---------|--------------|---------|-----------------------|--------|----------|--|
| | м. | F. | м. | F. | м. | F. | | |
| Improved Non-improved | 45 17 | 18 4 | 4 2 | 18 9 | $\frac{3}{2}$ | 8 2 | 96 36 | |
| Total | 62 | 22 | 6 | 27 | 5 | 100 | 132 | |

Maternity and Child Welfare.

The following table gives a summary of the visits of the four women health visitors during 1917.

| Wards. | Births. | Re-visits to Births. | Deaths under 5. | Diarrhœa deaths under 2. | Midwives. | Measles. | Whooping Cough. | Ophthalmia. | Other Infec- tious Diseases. | Special Visits. | Totals. |
|---------------------|---------|-------------------------|--------------------|-----------------------------|-----------|----------|--------------------|-------------|---------------------------------|--------------------|---------|
| No. 1-St. George | 110 | 680 | 44 | 2 | 6 | 239 | | 1 | 1 | 9 | 1,092 |
| No. 2-Lindsay | 160 | 527 | 31 | 1 | 9 | 351 | | 5 | | 27 | 1,111 |
| No. 3-St. Catharine | 186 | | 41 | 2 | 6 | 553 | | 3 | | 25 | 1,429 |
| No. 4-St. Patrick | 262 | | 46 | 2 2 3 | 12 | | | 4 | | 51 | 1,502 |
| No. 5-St. Thomas | 115 | | 28 | 3 | 2 8 | 212 | 1 | | | 27 | 880 |
| No. 6-Poolstock | 122 | | 30 | | | 336 | | | | 34 | 908 |
| No. 7-Victoria | 123 | | 28 | 3 | 8 | 126 | | 1 | | 39 | 857 |
| No. 8-St. Andrew | 228 | | 32 | 3 | 15 | | | 2 | | 41 | 1,970 |
| No. 9-Swinley | 83 | | 20 | | 12 | | | 2 | | 29 | 777 |
| No. 10-All Saints | 74 | | 11 | | 5 | 176 | | | | 148 | 686 |
| No. 11-W. Pemberton | 97 | 217 | 32 | 2 5 | 5 | 183 | 10 | | 23 | 13 | 572 |
| No. 12-N. Pemberton | 185 | 431 | 34 | 5 | 1 | 541 | | 1 | | 54 | 1,252 |
| No. 13-C. Pemberton | 119 | 298 | 17 | 2 | 5 | 285 | | 1 | | 58 | 785 |
| No. 14—S. Pemberton | 160 | 496 | 35 | 1 | 21 | 49 | | 1 | | 31 | 794 |
| Totals | 2024 | 6742 | 429 | 26 | 115 | 4647 | 11 | 21 | 24 | 586 | 14,625 |

TABLE 1.-TOTAL VISITS IN WARDS.

Ninety-three sanitary defects were reported to the Chief Sanitary Inspector.

CLINICS.

The following tables give statistical details of the work done at the Clinics :---

TABLE 2.

ATTENDANCES AT BABY CLINIC.

| Total attendances of | Babies and | Mothers | 2,767 |
|----------------------|------------|---------|-----------|
| Primary " | | ,, | 289 |

TABLE SHOWING ATTENDANCES.

| Weekly | 57 |
|-------------|-----|
| Fortnightly | 30 |
| Monthly | 10 |
| Irregularly | 243 |
| Once Only | 289 |
| Total | 629 |

| Wards. | No. of Children. | Wards. | No. of Children. |
|--|-----------------------|---|--|
| No. 1—St. George No. 2—Lindsay No. 3—St. Catharine No. 4—St. Patrick No. 5—St. Thomas No. 6—Poolstock No. 7—Victoria | $51 \\ 55 \\ 78 \\ 4$ | No. 8—St. Andrew No. 9—Swinley No. 10—All Saints No. 11—West Pemberton No. 12—North , No. 13—Central , No. 14—South , Outside the Borough | 84 25 37 24 37 43 13 37 |
| n and the second se | and the second | Total | 627 |

The children came from the following Wards :--

Talks and Demonstrations :---

Subjects.—Hygienic clothing for infants; advantages of breastfeeding; infantile ailments; infectious diseases; first-aid bandaging; poultice making; peptonized milk; whey; albumen water; patterns of hygienic clothing cut out and given to the mothers. Danger of dummy teats.

The Central Clinic has continued at the School Clinic, Rodney Street, kindly lent free of cost by the Education Authority. The work has grown, however, so much that already the premises are too small. An extra room is needed, and the provision of better accommodation should be carefully considered in the near future. Meetings have been held twice weekly, on Monday and Thursday afternoons.

The Clinic at Pemberton has been transferred from the Consumption Hospital to excellent premises at 15, Billingé Road. This house was formerly occupied by a photographer, and the large studio at the rear is admirably suited for our purpose. Meetings are held here also on Tuesday and Friday afternoons.

MIDWIVES' ACT, 1902.

Forty-four midwives were registered, as practising within the Borough, all of whom have been regularly visited at their homes, and followed when out to their cases. Their bags and appliances were also examined.

Twenty-three cases of Ophthalmia Neonatorum were notified, and careful instruction was given to the mothers as to the correct way to carry out the doctor's treatment. The following table shows particulars of Notifications of Births received :---

| | | 44 M | idwives. | Tratal |
|--|---------|---|----------------------------------|-----------------------|
| | Doctors | 31 Qualified. | 13 Unqualified. | Total. |
| No. of Births attended by Percentage No. of Medical Aid Forms received No. of Still-births Notified | | $\begin{array}{c} 1206 \\ 60{\cdot}57 \\ 264 \\ 32 \end{array}$ | $490 \\ 24 \cdot 61 \\ 91 \\ 14$ | 1991 355 50 |

Of the 44 midwives, 7 reside outside the Borough.

The reasons for sending for medical aid, as far as can be ascertained, are as follows :---

(1) Complications of Pregnancy, namely :-- Abortion, 6; Miscarriage, 2; Prematurity, 21; Eclampsia, 4; Hæmorrhoids, 1; total 34.

(2) Abnormal Presentations, 31.

(3) Complications of Labour, namely:—Delayed Labour, 66;
Contracted Pelvis, 10; Obstructed Labour, 6; Uterine Inertia, 4;
Ante-partum Hæmorrhage, 10; Retained Membranes, 4; Adherent Placenta, 12; Post-partum Hæmorrhage, 14; Ruptured Perineum, 44; Retained Placenta, 1; Patient's Request, 1; Inversion of Uterus, 1; total 173.

(4) Complications of Puerperium and other Illnesses of Patient, namely :—Rise of Temperature and Rapid Pulse, 14; Inflammation of Breast, 1; Patient Ill (undefined), 9; Various, 16; Collapse, 1; total 41.

(5) Illness and Abnormalities of Child, namely :--Malformation,
 4; Baby Ill (undefined), 14; Icterus Neonatorum, 1; Dangerous Feebleness, 18; Baby's Eyes, 25; Circumcision, 8; Asphyxia, 3; Cephalhœmatoma, 1; Spina Bifida, 1; Hare-lip Cleft Palate, 1; total 76.

PUERPERAL FEVER.

There have been 4 cases and 2 deaths from Puerperal Fever as compared with 6 cases and 2 deaths in 1916.

In one of the deaths a midwife had been attending the woman.

There have been 2 breaches of the rules by midwives.

^{III.—}Tuberculosis.

The number of deaths from Phthisis is 122 against 86 in 1916 and 95 in 1915. The number of deaths from other Tubercular affections is 35 against 30 in 1916 and 31 in 1915.

The rates are as follows :---

Phthisis Pulmonalis......1.46 per 1,000 of population. Other Tuberculous Diseases. 41 ,, ,, ,,

If taken together as Tuberculous affections, we have 157 deaths, or a rate of 1.87 per 1,000 of population.

PULMONARY PHTHISIS & TUBERCULOUS DISEASES.

| Wards. | Phthisis. | Other Tubercular Diseases. | Total. |
|--------------------------|-----------|----------------------------------|--------|
| No. 1—St. George | 8 | 4 | 12 |
| No. 2—Lindsay | 6 | 2 | 8 |
| No. 3-St. Catharine | 18 | 2 | 20 |
| No. 4-St. Patrick | 15 | 4 | 19 |
| Vo. 5-St. Thomas | 8 | - | 8 |
| Vo. 6—Poolstock | | 1 | 3 |
| Io. 7—Victoria | 7 | 3 | 1 10 |
| Vo. 8—St. Andrew | 11 | 5 | 16 |
| Vo. 9-Swinley | | 2 | 12 |
| vo. 10—All Saints | 3 | 2 | 5 |
| No. 11-West Pemberton | 5 | 4 | 9 |
| No. 12—North Pemberton | 7 | 1 | 8 |
| No. 13-Central Pemberton | | 1 | 6 |
| No. 14-South Pemberton | 2 | 2 | 4 |
| Transferable Deaths | 15 | 2 | 17 |
| Totals | 122 | 35 | 157 |

The deaths occurred in the following Wards :-

The following table shows the Comparative figures for 1914, 1915, 1916, and 1917, as regards Pulmonary cases :---

| | 1914 | 1915 | 1916 | 1917 |
|---|------|------------------------------|--|-------------------------------|
| Number of Notifications Deaths Fatality-rate per cent Death-rate per 1,000 | | $233 \\ 95 \\ 40.77 \\ 1.10$ | $178 \\ 86 \\ 48 \cdot 31 \\ 1 \cdot 03$ | • 188 122 64.89 1.46 |

COUNTY BOROUGH OF WIGAN.

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1911 & 1912.

14 +

SUMMARY OF NOTIFICATIONS DURING 1917.

| | | | 40 | | | | |
|---|--|--|---|------------|-------------|----------------|-----------|
| 1 | r of tions n C. | Sana- | toria | 61 | 16 | I | 1 |
| - | Number of Notifications on Form C. | | | ũ | 5 | 1 | 1 |
| | Number of Notifications on Form B. | Total Notifications | previously tutions notified by other doctors) | 1 | 1 | 1 | - |
| | s on | | Tot | 1, | 1 | I | 1 |
| | Number of ations on F | ary | 10 to 15 | I | 1 | 1 | 1 |
| | otific | Primary Notifications. | 5 to 10 | 1 | 1 | 1 | 1 |
| | N | Ň | um- der 5 | 1 | 1 | i | -1 |
| | 1217) 1217) | Total Notifications | previously previously notified by other doctors) | 95 | 88 | 84 | |
| | | | | 94 | 87 | 61 | 53 |
| | | Number of Notifications on Form A. Primary Notifications. | 65 & up- wds. | 61 | 1 | I | 1 |
| | | | 55 65 65 | 10 | - | 1 | 1. |
| - | | | 45 to 55 | 17 | 15 | 1 | I |
| | n A. | | 35 to 45 | 18 | 13 | 10 | 61 |
| | of Forn | | 25 35 to 5 | 12 | 21 | 01 | |
| | Number of cations on Fe | Primary - Notifications. | 20 25 | 12 | 19 | ** | ** |
| | Nun catio | Pri Notifi | 15 20 | . 1- | x | 9 | Π |
| | Notifi | | 15 to 10 | 9 | 4 | 21 | 13 |
| | 4 | | 10 to | ~ | 6 | 27 | 10 |
| | | - | 5 T | 01 | 1 | 13 | 10 |
| | | | - to 0 | 1 | I | 1 | - |
| | | | Age Fenods. | Pul. Males | · " Females | Non-pul. Males | , Females |
| | | 1 | | Pul | 1 | No | 2 |

MEDICAL OFFICER OF HEALTH.

(Signature) FRED E. WYNNE, B.A., M.B., D.P.H.,

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| Wards. | Population, Census 1911 | | Other forms of Tuber'losis | Totals |
|-----------------------|----------------------------|------|-------------------------------|--------|
| No. 1-St. George | 4,905 | 9 | 9 | 18 |
| No. 2-Lindsay | 5,295 | 10 | 9 | 19 |
| No. 3-St. Catharine | 7,586 | 15 | 9 | 24 |
| No. 4-St. Patrick | 9,795 | 22 | 27 | 49 |
| No. 5-St. Thomas | 4,382 | . 12 | 8 | 20 |
| No. 6-Poolstock | 5,413 | 11 | 9 | 20 |
| No. 7-Victoria | 4,836 | 14 | 12 | 26 |
| No. 8-St. Andrew | 12,378 | 33 | 13 | 46 |
| No. 9-Swinley | 7,384 | 18 | 6 | 24 |
| No. 10-All Saints | 3,536 | 8 | 2 | 10 |
| No. 11—West Pemberton | 4,188 | 11 | 12 | 23 |
| No. 12-North " | 7,379 | 5 | 3 | 8 |
| No. 13-Central " | 5,962 | 8 | 9 | 17 |
| No. 14-South " | 6,113 | 12 | 6 | 18 |
| Totals | 89,152 | 188 | 134 | 322 |

CASES OF TUBERCULOSIS (ALL FORMS) NOTIFIED IN 1917.

The work of the Dispensary is described in the report of the Tuberculosis Officer.



Report of the Tuberculosis Officer.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

I beg to present my Fifth Annual Report, necessarily brief, in existing circumstances, of the work done for the Corporation at and in connection with the Joint Tuberculosis Dispensary during 1917. The more essential portions of the work have been continued, though, as I reported last year, the whole of the developments and extensions, including research work, which I had contemplated, have been necessarily postponed, and very few contacts have been examined.

The medical practitioners have continued to avail themselves of the advantages that the Dispensary affords, and our relations continue of a cordial nature. One hundred and ninety-eight borough cases, including 22 army "requests," were referred by them to me during the year, and they were encouraged to send sputum of doubtful cases. Similarly, 484 county patients were referred to me by their doctors for diagnosis, etc.

SANATORIUM BENEFIT.

The number of applications received during 1917 was 99, and as in previous years nearly all of them were made through the agency of the Dispensary Staff, on receipt of notification by a medical practitioner, or after diagnosis by me. The occupations of the applicants were as follows :—

| Colliers |
|-----------------------------------|
| Cotton Operatives |
| Clerks, Teachers, Shop Assistants |
| Engineers |
| Tailoresses |
| Domestic Servants |
| Storekeepers |
| Carter and Chauffeur |
| Labourers |
| Painters |
| Stokers |
| Shoemakers |
| Carpenters |
| Rag Sorters |
| Pit Brow |
| Pit Brow |

Ten gave a history of having been in the army, and seven were received direct from army hospitals. Two of the applicants died shortly after receipt of application; and the remaining 97 at time of first examination by me:—

| 25 | were | in Stage I. |
|----|------|----------------------------------|
| 23 | ,, | in Stage II. |
| 38 | ,, | in Stage III. |
| 2 | ,, | non-pulmonary. |
| 5 | ,, | doubtful cases. |
| 4 | ,, | not suffering from Tuberculosis. |
| | | |

Recommendations were made to the Committee as under :--

TUBERCULOSIS OFFICER'S RECOMMENDATIONS.

| | Males. | Females. | Total. | |
|----------------------------|--------|----------|--------|--|
| Number of Applicants | 56 | 43 | 99 | |
| Bowdon Sanatorium | 3 | 7 | 10 | |
| Pemberton Hospital | 36 | 25 | 61 | |
| Special Nourishment | 1 | 4 | 5 | |
| Dispensary Supervision | 3 | 1 | 4 | |
| Domiciliary Treatment only | 9 | 4 | 13 | |
| Died before Examination | 1 | 1 | 2 | |
| Not Phthisis | 3 | 1 | 4 | |

Special nourishment was also granted to 92 old cases.

Particulars of admission and discharge of patients to and from residential institutions are given below :---

| Institution. | Admitted. | Discharged. | Left without Permission. |
|--------------------|-----------|-------------|-----------------------------|
| Bowdon Sanatorium | 15 | 16 | - |
| Pemberton Hospital | 80 | 65 | 4 |

Transfer to Bowdon Sanatorium, 1. Transfer to Whelley Hospital, 3.

The condition of patients on discharge is shown as under :--

| Improved. | Not Improved. | Total. |
|-----------|------------------|----------------------------------|
| 15 | 1 | 16 |
| 65 | 9 | 74 |
| | 15 | Improved. Improved. 15 1 |

Three patients died in Pemberton Hospital, and three patients died in Whelley Hospital after transference from Pemberton Hospital. Patients receive domiciliary treatment from their panel doctors, both before and after treatment in an institution. They receive in addition, dispensary treatment and supervision of their hygienic routine and home surroundings. Those who are fit to attend the Dispensary are encouraged to do so regularly; and each case is re-considered with a view to modification of treatment every two months. At the end of the year 154 insured persons were under supervision—102 males and 52 females. All but 19 were cases of lung disease.

The total number of borough cases of Tuberculosis under supervision by me on the 31st December was 404, but including county cases, the total number was 2,219. A staff of five nurses (one borough and four county) spend their time, under my direction, in instructing the patients and their friends, and in improving the home conditions.

Sanatorium benefit commenced in July, 1912, and 476 applications were received to the end of 1917.

Of the 476 applications, 407 were actually suffering from Pulmonary Tuberculosis, and of these it was possible to trace 135 who were alive at the end of the year; the condition of 95 being uncertain owing to removals and enlistments, etc. Of the 135 traced :—

> 67 were on or fit for full work at the end of 1917. 30 ,, ,, light work ,, and 177 ,, dead ,,

i.e., the working capacity was fully or partly restored in at least 97 cases, or practically 71.8 per cent. of those traced. On the other hand, 177 were definitely known to be dead, and it is significant that of these no less than 155 were in Stage III. (i.e., cases with extensive lung disease) at the time of first examination by myself. Most of these advanced cases gave a history of having been treated and certified for periods of varying length, as suffering from "Anæmia," "Bronchitis," "Influenza," and "Debility," Seeing that these four diseases, or symptoms, frequently accompany the earliest stages of Pulmonary Tuberculosis, I suggest that no certificate for any of them as a cause of disability should be given by panel doctors for a longer period than six weeks, without the patient being referred to the Dispensary as a matter of routine. On the other hand, many of the doctors regularly refer their cases to me, and last year 682 cases were in this way referred to me by doctors in my area.

In confirmation of the above statement, the following analysis of the deaths from Pulmonary Tuberculosis in the borough during 1917 is instructive, as showing the length of time between notification (and presumably diagnosis) and death of patient :—

| Deaths. | Insured. | Non-Insured. | Total. |
|---------------------------------------|----------|--------------|--------|
| Within 1 month | 13 | 14 | 27 |
| From 1 to 3 months | 4 | 5 | 9 |
| 2 to 6 months | 3 | 2 | 5 |
| " | 11 | 9 | 20 |
| ,, 6 to 12 months, ,, 1 to 2 years | 16 | 7 | 23 |
| ", 2 to 3 years | 1 | 3 | 4 |
| Over 3 years | 4 | 2 | 6 |
| *Notification not received till death | | | 13 |

*Including 3 cases notified as suffering from other diseases.

Thus, out of 107 deaths from Pulmonary Tuberculosis during 1917, in 49, or 45.7 per cent., notification was not received till death, or within three months of death. This percentage is much too high to be accounted for by acute or galloping cases, and furnishes absolute proof of the urgent need of still further co-operation between the panel doctors and the Tuberculosis Dispensary. It is noteworthy that similar figures are available for a great many other towns and districts, and this fact provides ample justification for the national policy of providing specialist services for Tuberculosis, with a view to earlier diagnosis and treatment.

The importance of early diagnosis cannot be over-estimated, as no form of treatment is of much avail for advanced cases. Patients need encouragement to consult their panel doctors as soon as they feel unwell, and the doctors for their part have at their disposal the resources of the Dispensary for the early diagnosis of doubtful cases. The danger of waiting until Tubercle Bacilli are found in the sputum is that by this time the disease is usually advanced. The diagnosis should be made before the lung tissue begins to break down, *i.e.*, before the bacilli can be found.

UN-INSURED PERSONS.

Much of what has been said above, as regards insured persons, applies equally to the un-insured. These cases receive precisely similar care and attention from the Dispensary Staff, and no distinction is made, apart from that necessarily involved in the keeping of two sets of records. They receive, as in the case of insured persons, home treatment from their own doctors, together with dispensary treatment and supervision, as well as periods of treatment in the institutions available, whenever this is required.

Particulars of admission and discharge of patients, to and from residential institutions, are given below :---

| Institution. | Admitted. | Discharged. | Left without Permission. |
|--------------------|-----------|-------------|-----------------------------|
| Bowdon Sanatorium | 3 | 3 | |
| Pemberton Hospital | 34 | 25 | 3 |
| Whelley Hospital | 5 | 3 | |

| Institution. | Improved. | Not Improved. | Total. |
|--------------------|-----------|------------------|--------|
| Bowdon Sanatorium | 2 | 1 | 3 |
| Pemberton Hospital | | 1 | 25 |
| Whelley Hospital | | | 3 |

The condition of patients on discharge is shown as under :---

Two patients died in Pemberton Hospital and three patients in Whelley Hospital.

TREATMENT & ISOLATION OF ADVANCED PATIENTS.

Special attention must be drawn to the valuable work being done at the Pemberton Consumption Hospital, in connection with the nursing, education and isolation of patients in an infectious condition, *i.e.*, with many Tubercle Bacilli in their sputum. Infection is most likely to occur when the number of Tubercle Bacilli is considerable, as is usually found in chronic and advanced cases. The nursing and isolation of infectious cases is thus most desirable, not only on grounds of humanity, but also because in this way a potent source of danger to the other inmates of their houses is removed.

PROVISION FOR PRE-TUBERCULOUS & NON-INFECTIOUS CASES OF TUBERCULOSIS IN CHILDREN.

It is now generally recognised that in Wigan as elsewhere, residential accommodation for a limited number of such children is urgently required. A Residential Open-air School of Recovery, on the lines advocated by the Board of Education, would go far towards meeting the need. The chief difficulty has hitherto been a financial one, but it will be seen from the following that substantial grants could be obtained from public monies, as follows :—

- (1) In order to qualify for grants from the Board of Education the Residential Schools of Recovery must be "recognised" by the Board under the provisions of the Elementary Education (Defective and Epileptic Children Act, 1899). The management of the school then are eligible to receive per unit of £15 10s. 0d. average attendance plus £9 for medical treatment and care, *i.e.*, a maximum of per unit of £24 10s. 0d.; or
- (2) If the residential school is approved by the Local Government Board under Section 16 (1) (a) of the National Insurance Act, 1911, the Local Government Board would pay to the County or County Borough Council, in whose area a child lived, one-half of the cost of sending suitable children to the institution.

The prospective income of such an institution can be summarised as follows :---

- (1) Grants from Board of Education, £24 10s. 0d. per head.
- (2) Fees from Local Education Authority for children sent by them (payable out of rates); or
- (3) Fees from County Borough or County Council for children sent by them (one-half from rates).
- (4) Subscriptions and donations.

Day open-air schools and classes would, of course, go far towards reducing the number of beds likely to be required for the above.

CARE COMMITTEE.

The Care Committee has continued to do useful work, as will be seen from the following summary :---

SUMMARY OF ASSISTANCE GIVEN BY THE CARE COMMITTEE.

| Nourishments ", ", | only bed and bedding bedstocks bed, bedding, and articles of clothing | 68 |
|--------------------------|--|-----|
| " bedste | and articles of clothing nd bedding ocks only othes only | 4 |
| ., bedpa | ns hing only | 4 4 |
| | Total | 98 |

| PERSONS | RECEIVING AS | SISTANCE. |
|----------|--------------|-------------------|
| | | Non-Insured |
| Insured. | Non-Insured. | (under 16 years). |
| 52 | 18 | 28 |

The Committee have met monthly, and have granted assistance to 98 persons during the year, on the recommendation of the Tuberculosis Officer and Dispensary Nurse, who attend the meetings.

The following Tables summarise the work of the Dispensary in various directions :---

| | Tuberculous. | | Non-tuberculous. | | Total. | |
|------------------------|---|------------|---------------------------------------|----------|------------------|-------------|
| | 1916 | 1917 | 1916 | 1917 | 1916 | 1917 |
| Insured Non-Insured | $\begin{array}{c} 71 \\ 43 \end{array}$ | $92 \\ 21$ | $\begin{array}{c} 35\\ 36\end{array}$ | 59 44 | $\frac{106}{79}$ | $151 \\ 65$ |
| Totals | 114 | 113 | 71 | 103 | 185 | 216 |

| TABLE 1.—NEW CASES EXAMINE | D. |
|----------------------------|----|
|----------------------------|----|

TABLE 2.—SPUTUM EXAMINATIONS.

| | 1916 | 1917 |
|--------------------------------------|---|---|
| Positive Results Negative Results | $\begin{array}{c} 39\\ 132 \end{array}$ | $\begin{array}{c} 60\\ 153 \end{array}$ |
| Totals | 171 | 213 |

| | Insu | red. | Non-In over | nsured • 12. | Children under 12. | Total. |
|----------------------------|---------------|----------------|----------------|-----------------|-----------------------|------------|
| Pulmonary Non-Pulmonary | м. 93 9 | ғ. 42 10 | м. 16 13 | F. 55 32 | 39 95 | 245 159 |
| Total | 102 | 52 | 29 | 87 | 134 | 404 |

TABLE 4.

TABLE 3.-CASES UNDER DISPENSARY SUPERVISION on 31st Dec., 1917.

| A choice | | | 4.0.00 | |
|---|-----------------|----------|----------|--|
| (1) INSURED CASES UNDER TREATMENT OR SUPERVISION, 1917 :— | Total Cases. | Died. | | sed Under T.B. D.S. on ict). 31 Dec., 1917. |
| Men | 152 | 37 | 13 | 102 |
| Women | 86 | 16 | 18 | 52 |
| Totals | 238 | 53 | 31 | 154 |
| In (2) Total Number of Persons Suf- fering from Tuberculosis | nsured. | Non-l | Insured. | Total. |
| UNDER TREATMENT OR SUPER- VISION DURING 1917 | 238 | | 310 | 548 |
| (3) NUMBER OF PERSONS UNDER TREATMENT OR SUPERVISION on 31st December, 1917 | 154 | 1 | 250 | 404 |
| Pt (4) Work of Dispensary Nurse : | ılmonary. | Non-P | ulmonary | . Total. |
| Number of NEW Tuberculous Cases Visited in 1917 | 177 | | 125 | 302 |
| Total Number of Tuberculous Persons Visited in 1917 | 383 | | 165 | 548 |
| Number of Visits Paid by Disp | ensary N | urse | 2, | 729 |
| | A11 | l Pulmo | nary | |
| | | Register | | New Cases, |
| | | Dec., 1 | | 1917. |
| (5) RESULT OF NURSE'S EFFORTS AS RI PULMONARY CASES : | EGARDS | | | |
| (a) Separate bedroom, <i>i.e.</i> , complete | isolation | 1 | 78 | 132 |
| (b) Separate bed, but not separa (partial isolation) | | | 62 | 30 |
| (c) Not satisfactorily isolated | | | 5 | 1 |
| (o) not satisfactorily isolated minin | | | | |
| (6) NUMBER OF SANITARY DEFECTS : | | | | |
| Noticed and Reported | | | | 5 |
| Remedied | | | | 3 |
| | | | | |

(7) NUMBER OF DISINFECTIONS CARRIED OUT BY SANITARY

DEPARTMENT

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Special attention has been given to improving the home conditions, and especially the sleeping arrangements, as the above figures show.

Of the 302 cases notified, 27 were found not to be suffering from Tuberculosis. Seventeen others were not visited by the Dispensary Nurse for various reasons, *e.g.*, in workhouse, asylum, army, etc.

| | Non- (| | |
|--------------------------------------|----------|-------------------|--------|
| | Insured. | Insured. | Total. |
| IDISPENSARY ATTENDANCES : | | | |
| (1) New cases | 151 | 65 | 216 |
| (2) Cases examined on discharge from | | | |
| institution | 80 | 8 | 88 |
| (3) Old cases | 524 | 55 | 579 |
| (4) Contacts | | 14 | 14 |
| (5) Total attendances | 755 | 142 | 897 |
| IITUBERCULOSIS OFFICER'S VISITS | 30 | 8 | 38 |
| IITUBERCULOSIS OFFICER'S ATTENDANCES | | A CONTRACTOR OF A | |
| AT MEETINGS | | | 38 |
| | | | |

TABLE 5.-GENERAL STATISTICS.

In conclusion, I wish to thank the Town Clerk (Mr. W. H. Tyrer) for helpful advice on various occasions, and my brother Officials for their co-operation. Excellent work has been done by Miss E. Walters (Dispensary Nurse), who has carried out her duties with care and thoroughness. The assistance I have received from Miss A. Fairhurst and Miss E. Platt (temporary_clerks) is likewise deserving of mention.

My thanks are due to the Committee for their encouragement and support.

I am,

Your obedient Servant,

GEORGE JESSEL,

M.A., M.D. (Oxon), D.P.H. (Vict.)

A Senior Tuberculosis Officer, Lancashire County Council, and Tuberculosis Officer, County Borough of Wigan.

TUBERCULOSIS DISPENSARY, 18th March, 1918.

General Sanitary Work.

INTRODUCTORY. MILITARY SERVICES. FACTORY AND WORKSHOP ACT, 1901. SHOP HOURS ACT, 1892 TO 1905. SHOPS ACT, 1912. SHOP HOURS ACT, 1904, CLOSING ORDER. MEAT INSPECTION AND SLAUGHTER-HOUSES. DAIRIES, COWSHEDS AND MILKSHOPS ORDER, 1885 AND 1886. BLACK SMOKE NUISANCE. HOUSING AND TOWN PLANNING ACT, 1909. REMOVAL OF NIGHTSOIL, &C. OFFENSIVE TRADES. EDUCATION ACT, 1902, 1904. PUBLIC ANALYST REPORT. RAINFALL.

INTRODUCTORY.

The general sanitary circumstances of the Borough are similar to those fully described in previous reports, and the usual description is omitted this year.

The water supply has been obtained from the usual sources, and has been of satisfactory quality.

Milk Supply.—Full particulars will be found in the Borough Analyst's report as to the quality of the samples taken.

MILITARY SERVICES.

Few soldiers have been billeted in the town during the year, as recruits were speedily sent away for training. The constant return of soldiers to infected houses has entailed an amount of supervision as well as the disinfection of their clothing previous to leaving the Borough. The firms in the town supplying foodstuffs for the Army have been inspected from time to time at the request of the Authorities, with a view to maintaining a reasonable standard of sanitation and cleanliness.

FACTORY AND WORKSHOP ACT, 1901.

The workshops have been regularly and systematically visited by your Inspectors; and also the factories, on receipt of report from H.M. Inspectors. The bakehouses have been regularly visited and any nuisances arising have been promptly dealt with. The regulations as to limewashing, cleanliness, etc., have been enforced. The underground bakehouses have been kept in a sanitary condition,

| Premises. | No. of Inspections. | No. of written Notices. |
|---|------------------------|----------------------------|
| Factories (including Factory Laundries) Workshops (including Workshop Laundries) Workplaces | 565 | 6 1 |
| TOTAL | 631 | 7 |

1.-INSPECTION.

2.-Defects Found.

| Particulars. | No. of defects found. | |
|--|--------------------------|----|
| Nuisances under Public Health Acts : | | |
| Want of Cleanliness | 26 | 20 |
| Want of Ventilation | 1 | 1 |
| Overcrowding | | |
| Want of Drainage of Floors | | |
| Other Nuisances | | 4 |
| Sanitary insufficient | | 3 |
| Accommo- unsuitable or defective | | 12 |
| dation not separate for sexes Offences under the Factory and Workshop Act : | | |
| Illegal occupation of underground bakehouse | | |
| Breach of special sanitary requirements for bakehouses | | 40 |
| Other offences | | 1 |
| TOTAL | 91 | 81 |

Notices from H.M.I., 2. Escapes in case of fire; not a nuisance.

3.-HOME WORK.

| | | OUT | WORKERS | s' LISTS | , SECTION | 107. | |
|--|--------------------------------|--------------------------------|---------------------|---------------------------|-------------------------|---------------------|-------------------------------|
| Nature of Work. | Lists received from Employers. | | | | | | Notices |
| | Send | ding twice in the Sendin year. | | ding once in the year. | | on occupiers | |
| | - | Outworkers. | | | Outworkers. | | as to keeping |
| a strategy of the strategy of the | Lists. (2) | Con- tractors (3) | Work- men (4) | Lists. (5) | Con- tractors (6) | Work- men (7) | or sending lists (8) |
| WEARING APPAREL : (1) Making, etc (2) Cleaning, etc | 24 | 16 | 147 | 2 | | 7 | 17 |

| Workshops on the Register (s. 131) at the end of the year. | Number. |
|--|-----------|
| Workshops | 319 |
| Bakehouses Domestic Workshops (not Outworkers) | 111 14 |
| Total Number of Workshops on Register | 444 |

4 .--- REGISTERED WORKSHOPS.

5.-OTHER MATTERS.

| Class. | Number. |
|--|---------|
| Matters Notified to H.M. Inspector of Factories : | |
| Failure to affix Abstract to the Factory and Workshop Act (s. 133) | 6 |
| Notified by H.M. Inspector | 9 |
| Report (of action) sent to H.M. Inspector | 14 |
| Other | |
| Underground Bakehouses (s. 101) : | |
| Certificates granted during the year | |
| n use at the end of the year | |

TRADES FOR WHICH REGISTERED WORKSHOPS ARE USED.

| Dressmaking | 37 | Coopers | 2 |
|--------------------|----|----------------------|---|
| Boot Repairing | 39 | Joiners | 5 |
| Clogging | 29 | Cycle Repairers | 5 |
| Tailoring | 37 | Tripe Dressers | 2 |
| Millinery | 41 | Marine Store Dealers | 5 |
| Clothing | 21 | Coffin Maker | I |
| Saddlers | 5. | Soap Boilers | I |
| Jewellers | 5 | Ginger Beer Works | 2 |
| Plumbers | 13 | Clay Pipe Maker | I |
| Painters | 9 | Hard Confectionery | I |
| Shoeing Smiths | 6 | Mantle Making | 4 |
| General Smiths | 3 | Bottlers | 4 |
| Wheelwrights | 5 | Rope Walker | I |
| Cabinet Makers | 4 | Coach Builders | 2 |
| Ice Cream Makers | 2 | Tia-plate Workers | 5 |
| Scale Repairers | 2 | Tarpaulin Sheet | |
| Laundries | 2 | Manufacturers | I |
| Knitting | 2 | Carver | I |
| Picture Framers | 3 | Watch Repairers | 3 |
| Wreathes | 2 | Piano Repairer | I |
| Electrical Works | I | Upholsterer | I |
| Waste Paper Dealer | 2 | Monumental Mason | I |
| | | | |

| Total | | |
|-------|--|--|
|-------|--|--|

.. 319

| NUMBER OF | WORKSHOPS | ON REGISTER. |
|-----------|-----------|--------------|
| 1917 | 1916 | Decrease, |
| 319 | 357 | 38 |

52

| 1917 | 1910 | 1915 |
|------|------|------|
| | | |
| 14 | 9 | 21 |

FACTORY AND WORKSHOP ACT, 1901.

| Notices received from H.M. Inspector | 9 |
|--------------------------------------|--------|
| Section 5-Sanitary defects | 17 |
| Complied with | 10 |
| 100 | |

(Two re-escapes, not considered a nuisance.)

NUMBER OF BAKEHOUSES ON REGISTER.

| 1917 | 1916 | Decrease. |
|------|------|-----------|
| | | |
| III | 115 | 4 |

Nine are certified underground bakehouses, and are as follows :

| 22, Earl Street. | 36, Wigan Lane (not in use). |
|--------------------|------------------------------|
| 32, Market Street. | 108, Wallgate (not in use). |
| 58, Market Street. | 12, Wallgate (not in use). |
| 10, Standishgate. | Woodcock Street (not being |
| 34, Wigan Lane. | used as bakehouse). |

OUTWORKERS' LISTS (SECTION 107).

| No. of | Visits to Outworkers' | Premises | - |
|--------|-----------------------|----------|---|
| | Nuisances arising | | - |

SHOP HOURS ACT, 1892-1905. Shop Acts, 1912 and 1913.

The work done under this Act is given fully in the Chief Sanitary Inspector's report. The infringements were complied with upon warning from the Inspectors.

INFRINGEMENTS.

| Notices not exhibited Want of Form | |
|---------------------------------------|------------|
| | - |
| · · · · · | 25 |
| No. of Observations (day) | 358 492 |

Shop Hours Act, 1904 (Closing Order). (Hairdressers and Barbers.)

The work done under this Order is given in your Inspector's report.

| No. of | | | | | | | | | | | 3 |
|--------|--------|---------|---------|---------|-----|------|------|------|-------|-------|--------|
| ,, | Visits | | | | | | | | | | 599 |
| ,, | ,, | (night) | ••• | • • | ••• | | | | • • • | • • • | 86 |

SLAUGHTER-HOUSES AND MEAT INSPECTION.

There are 25 registered slaughter-houses in the Borough, all of which are registered under the Towns' Improvement Clauses Act, and I licensed slaughter-house. Most of these slaughter-houses are unsatisfactory, and in default under the Bye-laws. They are generally in close proximity to dwellings, but unfortunately cannot be closed on this account. Many of them are ill-paved, improperly drained, and insufficiently lighted. The middens in connection with the slaughter-house constitute a serious nuisance, and as breedingplaces for flies constitute a real danger to healtn.

The Health Committee has enforced more strictly the provisions of the Public Health Acts, and the Local Bye-laws, that deal with the removal of manure, as it is obvious that these breeding-places for flies cannot be allowed to remain unchecked.

The fact that the work of slaughtering is distributed among 26 slaughter-houses in different parts of the Borough renders the work of meat inspection difficult. It is to be hoped that in the near future the provision of the Municipal Abattoir already decided upon by the Council may be accomplished. At present, however, no definite steps have been taken for various reasons, but a Sub-Committee has been appointed to endeavour to find a suitable site.

Cases of Tubercular or other disease in meat are reported to the Health Department by the butchers, and are then examined by Inspectors, who refer doubtful cases to your Medical Officer.

Independently, the slaughter-houses are regularly visited by the Inspectors.

The Council have decided to appoint a whole-time Veterinary Surgeon to be responsible for the meat inspection of the Borough as well as the other veterinary work of the Corporation. It is intended for patriotic reasons to defer making this appointment until the conclusion of the War.

Particulars of meat and other foodstuffs surrendered and destroyed will be found in your Chief Sanitary Inspector's report.

DAIRIES, COWSHEDS AND MILKSHOPS ORDER.

The following is the report of Mr. Woods, your Veterinary Inspector :---

GENTLEMEN,

Although two new cowkeeper, have been registered during the year, the total number of cattle kept within the Borough is somewhat less. I have not found a single case of Tuberculosis of the Udder during the period in question. A few cases of Mastitis have occurred, but not one on investigation proved tubercular. It may be that owing to abnormal conditions I have not always been able to inspect at the best time for detecting slight tubercular deposits, *i.e.*, when the udder is empty ; but I find that in Birmingham very few cases were discovered, though that city has a large milch cow population, and a most efficient system of inspection. I believe the true explanation to be that owing to the high price of meat for cattle not in prime condition, owners have immediately sent for slaughter any cow that appeared to be losing condition, which is what tubercular animals nearly always do. Another thing is that the Farmers' Association throughout the country have educated cowkeepers to a knowledge of the danger of infection from a tubercular animal, the result being that there is a considerably less number of cattle with any form of Tuberculosis. This, along with the registration of bulls, is distinctly improving the quality and soundness of our herds.

The whitewashing and general cleanliness of the cowsheds has been wonderfully well attended to considering the difficulties in regard to labour. One of our largest cowkeepers started milking his cows by machinery, but like many others, he found the disadvantages greater than the benefits, and has abandoned it.

> (Signed) WM. WOODS, Veterinary Inspector.

SMOKE NUISANCE.

Owing to pressure of other work few observations were taken. Warnings were given whenever necessary, and these usually had the desired effect. The enlistment of stokers and the substitution of less efficient labour have been taken into account.

HOUSING AND TOWN PLANNING.

The Housing and Insanitary Houses Committee has met monthly, with additional meetings from time to time, in order to try and clear off the large amount of accumulated arrears. Seventeen houses were made habitable, as compared with 52 in the previous year.

The following table shows the number of houses under consideration at the beginning of the year, the number reported to the Committee during the year, and the result of the decisions of the Committee, and the work carried out under their instructions :--

| No. of houses in respect of which Closing Orders were still opera- tive on January 1st, 1917 | 64 |
|---|----|
| No. of Demolition Orders made, and not complied with, on January 1st, 1917 | 35 |
| No. of houses inspected during 1917 | 7 |
| No. of houses reported as unfit for human habitation in 1917 | 7 |
| No. of Closing Orders made during 1917 | - |
| No. of Closing Orders not made during 1917 | 7 |
| No. of Closing Orders determined during 1917 | 6 |

| No. of Demolition Orders made during 1917 | - |
|--|----|
| No. of houses demolished in compliance with Demolition Orders | 5 |
| No. of houses converted to store after Demolition Order during 1917 | 1 |
| No. of houses made habitable after Demolition Orders during 1917 | 1 |
| No. of houses in respect of which Demolition Orders remained operative on December 31st, 1917 | 28 |
| No. of houses in respect of which no Orders have been made remaining on books December 31st, 1917 | 24 |
| No. of houses in respect of which Closing Orders remained opera- tive on December 31st, 1917 | 58 |
| The number of houses made habitable during the year is | 17 |
| The number of back-to-back houses converted into through houses is | 8 |

The following table shows the number of houses reported to the Committee, the number of Closing Orders made, and the number of houses demolished in each year since the passing of the Housing and Town Planning Act, 1909:—

| | 1909 | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 |
|---|------|------------------|--------------|--------------------|----------------|---|----------------|--------------|------------|
| Houses reported Closing Orders Houses demol'hed | | $32 \\ 14 \\ 13$ | 42 13 | $281 \\ 245 \\ 14$ | 97 83 23 | $\begin{array}{c}162\\83\\2\end{array}$ | 29 39 13 | 11 12 | 7 5 |

The number of fresh properties reported to the Committee was restricted for the following reasons :---

- The request of the Local Government Board that only the most urgent cases should be dealt with, owing to the need for private economy and the shortage of labour and materials.
- 2. The serious shortage of houses, which rendered closing or demolition undesirable as far as possible.
- The serious calls upon the time and energies of the whole staff, owing to the large amount of infectious disease.

Owing to the War, and the consequent restrictions on borrowing, actual building operations are postponed. The Committee have also had other schemes for additional houses under consideration.

UNPAVED YARDS AND PASSAGES, &c.

The following have been dealt with for defective surfaces of yards and passages :---

9, Field Street.

4, Orrell Street.

119, Wallgate.

4, Cowling's Place, Leader Street, Pemberton.

3, Egerton Street.

5, Argyle Street, Pemberton.

REMOVAL OF NIGHTSOIL, &c.

.

1111

| The Borough Surveyor has kindly supplie following particulars : | d me | with | the |
|--|--------|------|-----|
| | т. | с. | Q. |
| House refuse collected in Borough from January 1st to December 31st, 1917 | 20,084 | 0 | 2 |
| Pails excreta removed in 1917 | 5,927 | 9 | 2 |
| Midden and Ashpit Refuse removed in 1917 | 8,928 | 10 | 1 |
| Number of Pail Closets in Borough | | | |
| Number of Pails collected in 1917 399,194 | | | |
| Cost (including washing and distribution) | £1,876 | 11 | 11 |
| Cost of Collecting Ashes during 1917 | £3,557 | 14 | 5 |
| Cost of Collecting Midden and Ashpit Refuse during 1917 | £1,375 | 13 | 8 |
| Number of privy middens in Borough 1,587 | | | |
| ,, ,, emptied, 1917 8,953 | | | |
| Number of new houses erected in 1917 6 | | | |
| ,, water closets in Borough to February 28th, 1918 7,497 | | | |

| | | Abolishei |). | RE-CONSTRUCTED. | | | |
|-------|---------------------|-----------|------------|-----------------|----------|-----------|--|
| Year. | ear. Middens. Ashpi | | Cesspools. | Middens. | Ashpits. | Cesspools | |
| 1904 | 1 | | 1 | 3 | | | |
| 905 | 7 | | | 5 | | | |
| 906 | 6 | | | | | | |
| 907 | 4 | | | 23 | | | |
| 908 | 6 | | 1 | 3 | | | |
| 909 | 5 | 1 | | 15 | 3 | | |
| 910 | 1 | | | 2 | | | |
| 911 | 11 | | | 32 | 3 | | |
| 912 | 7 | | | 16 | 3 | | |
| 913 | 9 | 1 | | 7 | 1 | | |
| 914 | 14 | 3 | | | 5 | | |
| 915 | 12 | 3 | | 12 | 3 | | |
| 916 | 6 | | | 2 | | | |
| 917 | 2 | | | | | | |
| TOTAL | 91 | 8 | 1 | 102 | 18 | | |

MIDDENS, ASHPITS AND CESSPOOLS.

 Middens
 193 demolished or re-constructed.

 Ashpits
 26

 Cesspools
 1

CONVERSION OF CLOSETS.

Middens or pail closets converted into water closets in each of the following years :---

| 1904 | 8 | 1911 | 86 |
|------|-------|------|------|
| | | 1912 | - 44 |
| | | 1913 | 47 |
| | | 1914 | 62 |
| | | 1915 | 99 |
| | | 1916 | 42 |
| | | 1917 | 9 |
| | | | - |

OFFENSIVE TRADES.

These have been kept under close supervision, and certain improvements and alterations that were urgently necessary, have now been carried out. There have, in consequence, been few complaints of nuisance since.

RAINFALL, 1917.

AT WORTHINGTON.

| Month. | Rainfall in inches and Tenths. | No. of days on which rain fell, being .01 of an inch or more. |
|----------|-----------------------------------|---|
| January | 2.61 | 13 |
| February | | 10 |
| March | | 16 |
| April | | 17 |
| May | | 12 |
| June | | 17 |
| uly | | 9 |
| August | | 26 |
| eptember | | 15 |
| October | 7.58 | 25 |
| vovember | | 22 |
| December | 2.57 | 16 |
| TOTAL | 38.58 | 198 |

The mean average rainfall for the past 60 years, 37.36 inches.

RAINFALL, 1917. At Bispham.

| Month. | Rainfall in inches and Tenths. | No. of days on which rain fell, being .01 of an inch or more. |
|-----------|-----------------------------------|---|
| January | 2.11 | 10 |
| February | | 7 |
| March | | 15 |
| April | | . 11 |
| May | | 12 |
| June | | 17 |
| July | | 9 |
| August | 8.26 | 26 |
| September | 2.17 | 12 |
| October | | 25 |
| November | | 23 |
| December | | 14 |
| TOTAL | 38.18 | 181 |

Average consumption per head per day, Wigan and Pemberton, (e.timated population, 84,419) was 2,063 gallons.

Annual Report of the Public Analyst, 1917.

COUNTY ANALYST'S LABORATORY,

MANCHESTER, July 29th, 1918.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

I have the honour to report the following summary of analytical work carried out during the year 1917, viz. :--

SALE OF FOOD AND DRUGS ACT, 1875.

One hundred and fifty-four samples were submitted as follows: 78 milks, 23 butters, 8 sugars, 6 flours, 6 margarines, 5 coffees, 4 each of ice cream, tea, and preserved cream; 3 self-raising flours, 2 each of rice, pepper, and ground ginger; and I each of cream powder, cream of tartar substitute, lard, cream, cocoa, tapioca, and corn syrup.

The samples reported against as adulterated or of unsatisfactory quality were 6 milks (which contained added water varying from 3.5 per cent. to as high as 38 per cent.) and 2 ice creams. The latter revealed a degree of bacterial contamination suggestive of carelessness in handling or storage.

All samples of milk showed a satisfactory freedom from preservatives. The fatty foods, which include butter, margarine, lard, and cream (preserved and pure), were of good average quality.

The two latter, which are more exactly classified under the Milk and Cream Regulations, were in accordance with the provisions of the Order. The flours and self-raising flours were unbleached samples, and the latter were free from arscnic, traces of which are liable to occur where acid-phosphate powders are substituted for cream of tartar in the self-raising constituents. In this connection, the cream powder and cream of tartar substitute contained acidphosphate sufficiently de-arsenicated to insure an arsenical content of less than one-hundredth of a grain per pound.

The polarimetric readings of the sugar samples indicated 95 per cent. and upwards of sucrose.

Chemically and microscopically, the starchy foods and condiments (including rice, pepper, ground ginger, etc.) were of sound commercial quality, and the coffees and cocoa were free from foreign vegetable tissue, starch, etc.

CAKE AND PASTRY ORDER, 1917.

This Order regulates the amount of sugar to be introduced into confectionery, and prescribes the following maximum percentages of cane sugar:—scones, nil; buns, 10 per cent.; biscuits and cakes, 15 per cent. Twelve miscellaneous samples were examined, and the sugar was found to vary considerably, but in each case fell below the limit provided.

FERTILISERS AND FEEDING STUFFS ACT, 1906.

Eight samples of feeding stuffs, viz. :--4 oats, 3 brans, and I bean were submitted; three being reported as of unsatisfactory quality on account of a low albuminoids figure. This class of material has of course deteriorated because of war conditions, and in absence of any invoice it is somewhat difficult to say what is and what is not satisfactory.

WATER SUPPLY.

Nine of the 12 monthly analyses were in respect of the Wigan supply, taken from different wards in the Borough. The more important average results were as follows :—

| | | HARDNESS. | | | | | | PART PER MILLION. | | |
|-------------------------------|-----------------|-----------|-------|----------------|------|-------|-----------------|-------------------|-------|--|
| | Before boiling. | | | After boiling. | | | Alb'd. Ammonia. | | | |
| | Max. | Min. | Aver. | Max. | Min. | Aver. | Max. | Min. | Aver. | |
| Wigan Corpora- tion Supply | 11. | 7.7 | 8.6 | 7.3 | 5.5 | 6.1 | ·13 | ·ð8 | ·11 | |
| Pemberton Supply | 13.5 | 12.25 | 12.9 | 4.0 | 0.5 | 2.3 | ·14 | · ·09 | •11 | |

Despite variations in free ammonia and albuminiod ammonia the supply has maintained its satisfactory reputation, and the slight degree of organic contamination shown, *inter alia*, in the above figures is of vegetable origin, and not derived from sewage or similar pollution. Whilst of average hardness, compared with most communities, industrially it is a sound supply and perfectly amenable to treatment for steam-raising and other purposes.

In conclusion, I beg to record my indebtedness to the Chief Inspector (Mr. C. H. France) for his ever-willing co-operation; and also, my sincere appreciation of the support which one has always had from Committee and fellow officials.

I am, Gentlemen,

Your obedient Servant,

S. ERNEST MELLING, County & Public Analyst.

Annual Report of the Chief Sanitary Inspector 1917.

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HEALTH DEPARTMENT,

WIGAN, July, 1918.

To the Chairman and Members of the Health Committee.

SIR AND GENTLEMEN,

I have very great pleasure in submitting for your perusal my SIXTH ANNUAL REPORT of the work carried out by the Staff, under my supervision, during the year 1917.

The work has still been very heavy, and to maintain the degree of efficiency and to cope with the extra work, the time of the Staff has not been limited to office hours.

Infectious diseases have been very prevalent during the year, and this has necessitated a great pressure being placed upon the Disinfection Staff.

Certain food factories—where War Office contracts have been accepted—have been regularly supervised; also the food places in the Borough.

I have again to tender to you my sincere thanks for the courteous help and consideration extended to me and my staff, To the Inspectors and Staff I express my thanks and appreciation of their loyal services under heavy responsibilities.

To the Chicf Officials of the Corporation, whose services I have sought in the carrying out of my duties, I express my thanks.

The work done is given in table under their different headings.

I am, Gentlemen,

Your obedient Servant,

CHARLES H. FRANCE,

C.R.S.I., M.S.I.A., A.R.S.I., &c., Chief Sanitary Inspector, &c., Member of the N.W. Centre Council and General Council, S.I. Association.

NUISANCES.

| Houses and premises inspected and visited re nuisances and | |
|--|------|
| complaints | |
| Nuisances discovered | 793 |
| Nuisances abated | 535 |
| Notices issued (preliminary) | 394 |
| ,, ,, (formal) | 299 |
| Re-visits to nuisances | |
| Other visits made | 1951 |
| Visits to premises (testing of drainage) | |
| Letters issued re nuisances | 152 |
| ,, ,, upon other matters | |
| Nuisances remaining on books, December 31st, 1917 | 140 |

DESCRIPTION OF NUISANCES DEALT WITH.

| Defective drainage | 17 |
|---|-----|
| Choked drainage | 186 |
| Defective and foul gullies | 4 |
| Gullies requiring grids | I |
| Want of slopstones and pipes | 3 |
| Slopstones defective | 21 |
| Soil pipes or connections defective | 8 |
| Defective or choked water closets | 43 |
| Defective water supply to closet | 45 |
| Defective sink waste pipes (connected to drains) | 3 |
| Defective condition of closets (roof, walls, door, seat or floor) | 54 |
| Want of doors to closets | 10 |
| ,, ,, ash-house | 4 |
| Defective condition of ash-houses (roof, walls, door or floor) | |
| Defective or choked waste water closets | 4 |
| Delective of choked waste water closets | 14 |

| Want of ash tubs | 2. |
|--|----|
| Workshops require limewashing | I |
| Defective water closet cisterns | 29 |
| Insufficient closet accommodation to houses or workshops | 5 |
| Insufficient ventilation to closets to factories and workshops | 2 |
| Insufficient means of escape in case of fire to workshops and | |
| factories | 2 |
| Defective spouts (eave or down) | 87 |
| Want of spouting to premises | 4 |
| Defective roofs | 94 |
| Defective flagging or paving (yards and passages) | 8 |
| Houses overcrowded or keeping of lodgers | 3 |
| Defective or foul urinals | I |
| Houses with filthy closets | 3 |
| " filthy yards and entries | 3 |
| " damp and defective walls | 33 |
| Bath and Lavatory waste pipes connected to drains | I |
| Bath and lavatory waste pipes defective | I |
| Defective middensteads | I |
| Accumulations of manure | 6 |
| ,, water | I |
| ", rubbish | 7 |
| Keeping of animals | 7 |
| Miscellaneous | 86 |

Conversions have been carried out in the following properties, from privies and pails to water closets :---

| 53 and 55, Queen Street | 2 | pails to | 2 water | closets |
|--|---|------------|---------|---------|
| 18 and 19, Acton's Yard, Marsh Lane | 2 | ,, | 2 | ,, |
| 10, Pitt Street | 1 | , ,, | 1 | ,, |
| 30, 32, 34, 36 and 38, Fleet Street, Pemberton | 2 | privies to | 4 | ,, |
| 11 and 12, Gibraltar, Pemberton | 1 | ,, | 2 | ,, |
| 2, 4, 6 and 8, School Street, and 47, School Lane | 4 | pails to | 4 | ,, |
| 1 and 2, Lea's Yard, Pitt Street, and 6 and 8, Pitt Street | 2 | ,, | 2 | ,, |
| 13, 15, 17, 19 and 21, Bridge Street, and 1, Lither- land's Yard, Bridge Street | 4 | " | 4 | ,, |
| 1, 2 and 3, Peer's Yard, Pitt Street, and 3, 5, 7, 9 and 11, Pitt Street | | ,, | 4 | ,, |

COMMON LODGING-HOUSES.

| No. of | common lodging-houses in the Borough | 17 |
|--------|--|---------|
| ;, | lodgers allowed nightly | 764 |
| | visits by day | |
| ,, | ,, night | |
| ,, | lodgers reported as being received (per returns) | 129,572 |
| ,, | letters sent out | 3 |
| ,, | houses on register end of 1916 | 18 |
| ,, | houses given up during the year | I |
| ,, | houses remaining on register end of 1917 | 17 |

HOUSES LET-IN-LODGINGS.

| No. of | houses on register | 15 |
|--------|--------------------|-----|
| ,, | visits by day | 108 |
| ,, | letters sent out | - |

SLAUGHTER-HOUSES, OFFENSIVE TRADES, AND MARKETS. .

| No. of | slaughter-houses in the Borough | 26 |
|--------|---|------|
| ,, | offensive trade premises in the Borough | 7 |
| ,, | knackers' yards in the Borough (licensed) | 2 |
| ,, | visits to slaughter-houses | 1793 |
| ,, | ,, offensive trade premises | 146 |
| ,, | ,, markets | |
| ,, | ,, butchers and other food shops | |
| ,, | letters sent out | I |
| ;, | certificates issued (condemned food) | 90 |

The following animals were examined as to their fitness for sale :--

| | Passed. | Condemned. | Part passed and part condemned. |
|-------|---------|------------|---------------------------------|
| Oxen | 456 | 2 | 16 |
| Pigs | 2 | 4 | |
| Sheep | | 1 | |
| Calf | 3 | 2 | |

The condemned oxen, pigs and one calf were tubercular. The sheep was suffering from Peritonitis. One calf was suffering from joint-ill.

FOOD CONDEMNED, 1917.

- 2 Beasts.
- 4 Pigs.
- I Sheep.
- 2 Calves.
- 825 Rabbits.
 - 22 Fowls.
 - 5 Geese.

 - 6 Barrels of gurnetts.
 - 11 Boxes of dried fish.
 - 99 Boxes of kippers.
 - 78 Boxes of red herrings. 24 Bags of carrots.
- 78 Boxes of mackerel.3 Hampers of apples.2 Boxes of halibut.1 Ham.2 Boxes of codfish.30lbs. of cheese.

- I Box of flukes.

- I Box of mixed fish.
- I Box of Whiting.
- I Box of Finnon haddock.
- I Box of frozen haddock.
- I Load of cabbages.
- 2 Baskets of cabbages.
- I Basket of radishes.
- I Barrel of oysters.401 Baskets of strawberries.5 Barrels of herrings.2 Baskets of Cherries.

 - 2 Baskets of Cherries. I Basket of mixed fish.
 - I Basket of beans.
 - 17 Crates of bananas.

The following statement shows the quantities of unwholesome food and shellfish and other refuse destroyed at the Miry Lane Depot during the year :--

| | T. | c. | Q. |
|--------------|-----|----|----|
| Fish | • 4 | 6 | 3 |
| Beef | 9 | 0 | 2 |
| Pork | 0 | 3 | 1 |
| Fish Refuse | 3 | 4 | 1 |
| Other Refuse | 209 | 1 | 1 |
| | 225 | 16 | 0 |

CANAL BOATS ACTS, 1877 & 1884.

No

.

N

| o. of | boats that have been registered at Wigan 2 | 295 |
|-------|--|-----|
| ,, | " still in use or available | 51 |
| ,, | ,, not in use 1 | 189 |
| .,, | ,, that cannot be traced | 35 |
| ,, | " re-registered with other Authorities | 20 |
| | " at Wigan | 6 |
| ,, | applications for registration and re-registration during | |
| | the year | |
| | applications granted | |
| | boats re-registered | _ |
| ., | inspections made | 6 |
| ,, | notices issued | _ |
| | ,, complied with | _ |
| " | contravention of regulations | |
| ,, | letters sent out | - |
| ,, | certificates renewed | 1 |
| ,, | | - |
| ,, | occupants of boats inspected (men 12, women 4) | |

SMOKE NUISANCES.

.

No. of observations taken

INFECTIOUS DISEASES (PREVENTION) ACT, &c.

During the year all the schools were sprayed, following their closure, owing to the prevalence of an infectious disease in epidemic form.

Certain wards of the Infectious Diseases Hospital were disinfected ; as also were the kits of soldiers who became "contacts." Soldiers were quarantined for a certain period, in accordance with Army instructions.

Library books from infected houses were disinfected, and returned by this Department direct to the Library.

| No. | of houses disinfected | 1770 |
|-----|--|-------|
| ,, | rooms disinfected | 2037 |
| ,, | beds disinfected | 1592 |
| ,, | mattresses disinfected | - 999 |
| ,, | sheets and quilts disinfected | 2972 |
| ,, | other articles disinfected | 9211 |
| ,, | premises cleansed and limewashed after infectious disease | 232 |
| ,, | visits to houses re limewashing and cleansing, etc. | 572 |
| ,, | " " infectious disease | 5456 |
| ,, | letters sent out re infectious disease | - |
| ,, | ,, ,, limewashing | 95 |
| ,, | library books disinfected | 46 |

SALE OF FOOD AND DRUGS ACTS; MARGARINE ACTS; PUBLIC HEALTH (MILK & CREAM) REGULATIONS, 1912.

All the samples, with one exception, were submitted to the Public Analyst.

Milk.—Samples were obtained from shops, railway stations, and milk carts. In cases of adulteration, further samples were obtained from the farmer, the farms visited, and all appliances, etc., carefully inspected. Every sample was examined by the Public Analyst for preservatives.

| No. of | samples | obtained for analysis | 154 |
|--------|---------|------------------------------------|-----|
| | ,, | genuine | |
| " | ,, | adulterated | 8 |
| ,, | ,, | (informal) | 36 |
| ,, | | sent out | |
| ,, | samples | s obtained (not sent for analysis) | I |

PUBLIC HEALTH (MILK & CREAM) REGULATIONS, 1912. New Milk. Cream.

| r. | MILK AND CREAM NOT SOLD AS PRESERVED CREAM. No. of samples examined for the presence of a | | |
|----|--|----|---|
| | No. in which a preservative was reported to | 78 | 3 |
| | be present | - | - |
| 2. | CREAM SOLD AS PRESERVED CREAM. | | |
| | (a) Correct statements made (as per label) | 2 | |
| | (b) Above 35 per cent. (milk fat) | 2 | |
| | (c) No. of instances where regulations con- | | |
| | travened | | |

3. THICKENING SUBSTANCES. No evidence of addition.

1

2

| Article. | Samples. | Genuine. | Adulterated. | Not Formal |
|-----------------------|----------|----------|---------------------|------------|
| Milk | 78 | 72 | 6 | 6 |
| Butter | 23 | 23 | | 5 |
| Margarine | 6 | 6 | | 2 |
| Coffee | 5 | 5 | | |
| Self-raising Flour | 3 | 3 | | 3 |
| Lard | 1 | 1 | a ser a statut area | |
| Sugar | 8 | 8 | | 1 |
| Cream of Tartar Subst | 1 | 1 | | î |
| Cream Powder | 1 | 1 | | î |
| Preserved Cream | 0 | 0 | | 0 |
| Cream | 2 | 2 | | 3 |
| Геа | 4 | 3 | | |
| Rice | 9 | | | |
| White Pepper | 20 | 20 | | |
| Chound Cinger | 20 | 20 | | |
| Ground Ginger | 2 | 2 | | |
| Tapioca | 1 | 1 | | |
| Flour | 6 | 6 | | 0 |
| Cocoa Essence | 1 | 1 | | 1 |
| Ice Cream | 4 | 2 | 2 | 4 |
| Corn Syrup | 1 | 1 | | 1 |
| TOTALS | 154 | 146 | 8 | 36 |

| | Result. | Examination made for detection of B. Enteritidis and revealed suggested degree of contamination. Pre- mises visited and instructions given to proprietors. Further samples gave negative results. | Fined £2. | Purchased through agency (private house). Further sample to 26. | Further sample in connection with 26. Fined £3. | Do. do. 26. Fined £5. | Do. do. 26. | Do. do. 26. | |
|---|-------------------------|--|---|---|---|-----------------------|-------------------|--------------------------|---|
| | Extent of Adulteration. | Informal Ice Cream Avoidable contamination } | 6.9 extraneous water. Milk Fat 2.83 Fined £2. | 38 per cent. do | 31.7 do. do. 2.5 | 32.9 do. do. 2.7 | 7.0 do. do. 3.4 | 35 per cent. do. do. 2·9 | |
| | Article. | Ice Cream | Formal New Milk | Informal New Milk | New Milk | New Milk | Informal New Milk | Informal New Milk | - |
| The second se | Formal or Informal. | Informal | Formal | Informal | Formal | Formal | Informal | Informal | |
| | No. of Sample. | 9 10 | 26 | 43 | 46 | 48 | 50 | 51 | |

HISTORY-ADULTERATED SAMPLES.

Samples Nos. 9 and 10.—As stated, these were purchased in order to ascertain any impurities which they may contain owing to the insanitary conditions of premises. The result is given previously. Improvements were carried out immediately.

Samples Nos. 26, 43, 46, 48, 50 and 51.—Following sample No. 26, the other samples were secured in following up the case. Informal samples were taken from a private house and from the farm premises. The presence of added water was shown from the time when the milk left the shippon to its being delivered to customers.

Samples Nos. 44, 45, 47 and 49.—These were given as pure. Milk was purchased from other dealers in order to supplement supplies.

| No. | 26-on delivery. 6.9 er | strai | neous | water. |
|-----|--------------------------|-------|-------|------------------------|
| No. | 43-private house. 38.0 | ,, | | " |
| No. | 44-bucket in dairy. Milk | fat | 4.2. | No extraneous water. |
| No. | 45-bucket in shippon. | ,, | 4.2. | No extraneous water. |
| No. | 46—on delivery. | ,,, | 2.5. | Extraneous water 31.7. |
| No. | 47—on delivery. | ,, | 3.4. | Said to be own milk. |
| No. | 48—on delivery. | ,, | 2.7. | Extraneous water 32.9. |
| No. | 49-shippon. | ,, | 3.5. | No extraneous water. |
| No. | 50-shippon. | ,, | 3.4. | Extraneous water 7%. |
| No. | 51—pail in outhouse. | ,, | 2.9. | Extraneous water 3.5. |

FOOD ORDERS.

During the year I had put under my supervision the following Orders of the Food Control:—

> Price of Milk Order (1917). Food (Condition of Sale) Order. Cake and Pastry Order. Sugar (Confectionery) Order.

In reference to the Cake and Pastry Order, the bakeries (wholesale and retail) were visited, and the occupiers interviewed and instructed as to what articles complied with the Order. During the year warnings by letter and verbally were given.

Twelve samples of cakes were procured and submitted to the Analyst for examination as to percentages, etc., in accordance with the provisions of the Order. The results were as shown in the Analyst's report.

Other visits under the Orders are given herewith.

CAKE & PASTRY ORDER.

| | visits (day) | |
|----|-------------------------|-----|
| ,, | ,, (night) | |
| ,, | observations (day) | 829 |
| ,, | ,, (night) | 6 |
| ,, | complaints and cautions | 62 |

| Food (Condition | of Sale) | Order | 36 |
|------------------|----------|--------|----|
| ,, ,, | | visits | 51 |
| Letters sent out | | | II |

MISCELLANEOUS VISITS.

| Visits to fair v | ans | 87 |
|------------------|-----|----|
| | it | |

MARGARINE AND MARGARINE CHEESE.

Under the above, 12 persons are registered as Wholesale Dealers for 15 premises.

FERTILIZERS AND FEEDING STUFFS ACT, 1906.

During the year only eight informal samples were obtained. Five were reported as satisfactory and three as unsatisfactory—in these satisfactory explanation was forthcoming. The samples reported against were two of bran and one of whole oats.

Letters were sent out in these cases. No invoices were given.

SAMPLES.

| Whole oats | 4 |
|-------------|-------|
| Whole beans | I |
| Bran | 3 |

FACTORY AND WORKSHOP ACT.

| No. of | workshops on register | 319 |
|--------|--------------------------------|-----|
| | bakehouses on register | |
| . ,, | domestic workshops on register | 14 |
| ,, | visits to outworkers' premises | |
| ,, | " factories | 66 |
| ,, | " workshops | 565 |
| ,, | defects dealt with | 91 |
| ,, | letters sent out | 41 |
| . ,, | underground bakehouses | 5 |

During the year the following workshop was granted a certificate as being provided with sufficient means of escape in case of fire :---

Workshop : 157A, Scholes.

SHOP ACTS, 1912 & 1913.

| No. of | shops on register2 | 2234 |
|--------|--|------|
| ,, | visits to shops (day) | 526 |
| ,, | ,, (night) | 14 |
| ,, | ,, re Closing Order, barbers and hair- | |
| | dressers (day) | 73 |
| ,, | ,, re Closing Order, barbers and hair- | |
| | dressers (night) | |
| ,, | observations (day) | |
| ,, | ,, (night) | 492 |
| ,, | visits re National Closing Order (day) | 258 |
| ,, | observations re National Closing Order (day) | 19 |
| ,, | ,, ,, ,, (night) | |
| " | letters sent out | 22 |

REPORT OF OFFENCES, 1917.

| Cautioned | for not exhibiting Closing Notice | 22 |
|-----------|--|----|
| ,, | ,, having form (Assistants' half-holiday) | 3 |
| ,, | ,, having half-holiday | 7 |
| ,, | employing young persons after working | |
| | under Factory and Workshops Act | 4 |
| ,, · | offence (Barbers and Hairdressers' Closing | |
| | Order) | 3 |
| ,, | meal intervals | 3 |

DAIRIES, COWSHEDS AND MILKSHOPS ORDER.

| | cowsheds on register, 1915 | |
|----|-----------------------------|---|
| ,, | dairies on register, 1915 | 6 |
| | milkshops on register, 1015 | |

DISEASES OF ANIMALS ACTS.

The provision of these Acts so far as relate to this Department have been given the attention required.

AMERICAN GOOSEBERRY MILDEW (FRUIT) ORDER, 1912.

The markets have been regularly visited and the fruit shops supervised during the season of this fruit.

RAG FLOCK ACT, 1912.

The provisions of this Act have been carried out. No samples have been obtained.

HOUSING AND TOWN PLANNING ACT, 1909. No. of visits to premises re Housing and Town Planning Act 76 ,, re-visits to premises re Housing and Town Planning Act 272 Property reported upon, 1917 7 ,, on books, January 1st, 1917...... 146

| Property | with | C. and D. Orders on, January, 1917112 |
|----------|------|--|
| ,, | ,, | Preliminary Notices on, January, 1917 32 |
| ,, | ,, | no Orders on, January, 1917 2 |
| ,, | ,, | Notice (Section 15) on, January, 1917 |
| ,, | " | Closing Orders on, but not let for human habitation by agreement, January, 1917 – |

146

 Made habitable, 1917
 8

 Demolished, 1917
 5

 Made into through houses, 1917
 9

 Not used for human habitation, 1917
 1

 Done away with, but re-construction, 1917

 Converted to outhouse, 1917

 23

 Property still on books, December 31st, 1917
 130

 153

PROSECUTIONS, 1917.

Case I. May 14th.—Food and Drugs Act. Selling to the prejudice of the purchaser milk not of the nature, etc., demanded.

March 25th. Fined f_2 .

April 14th. ,, £3.

,, 21st. ,, £5.

May 14th.—Food and Drugs Act (Section 9). This case withdrawn on defendant being convicted under Section 6.

