Contributors

Leeds (England). City Council.

Publication/Creation

1909

Persistent URL

https://wellcomecollection.org/works/b9mh6cty

License and attribution

You have permission to make copies of this work under a Creative Commons, Attribution license.

This licence permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited. See the Legal Code for further information.

Image source should be attributed as specified in the full catalogue record. If no source is given the image should be attributed to Wellcome Collection.



Wellcome Collection 183 Euston Road London NW1 2BE UK T +44 (0)20 7611 8722 E library@wellcomecollection.org https://wellcomecollection.org

ANNUAL REPORT

MADE TO THE

URBAN SANITARY AUTHORITY

OF THE

CITY OF LEEDS,

FOR THE YEAR

1909,

AND PARTLY FOR 1910.

With Supplementary report for the Municipal year 1909-10.

 $\mathbf{B}\mathbf{Y}$

J. SPOTTISWOODE CAMERON,

M.D., B.Sc., &c.,

Medical Officer of Health to the City.



CONTENTS.

- GENERAL REPORT.—Death rate in Leeds including and excluding certain outsiders (p. 1). Seven zymotics (pp. 2 and 3). Other infectious diseases, including consumption (p. 3). Respiratory diseases (p. 6). Death rate generally (p. 7). Infantile mortality and comparative mortality (pp. 8 and 9).
- AGE MORTALITY (p. 11).—INFANT MORTALITY (p. 13). Extended tables (p. 16). Review of in 'antile mortality during 1905-9 (p. 19). Certification of still-births, a cause of apparent increase in death rate (p. 24). Mortality of infants in districts, 1909 (p. 25). Mortality of infants in districts, 1905-9, (p. 27). Comparison of district infant mortality (p. 28). The relation of infant mortality to birth rate (p. 29). District mortality under one week (p. 30).
- SPECIAL DISEASES. —TUBERCULOSIS. Decrease in death rate from consumption in quinquennia since 1885-89 (p. 37). Tuberculous disease not phthisis (p. 39). Phthisis mortality in intercepts (p. 39). Want of an "intermediate" census (p. 40). Notification (p. 43). Work of the Association (p. 43). Other preventive work in the town (p. 44). Examination of milk supply since 1899 (p. 44). Inspection of Leeds cows, 1909 (p. 45). Tubercle in milk from outside farms (p. 46). Biological examination of milk for tubercle. Investigations in consequence (p. 47). COMMON ZYMOTIC DISEASES.—Scarlet fever, Diphtheria, Diarrhaa (p. 76).

ADMINISTRATIVE WORK.—Work of Women Inspectors (p. 109). Cleansing (p. 115). Food Examination (p. 117).

REPORT ON THE MUNICIPAL YEAR, 1909-1910 (p. 178).

LIST OF TABLES.

PAGE

| TABLE | I.—Mortality in Leeds in 1909, from all and certain groups of causes, | |
|-------|---|----|
| | and comparison with previous years | 4 |
| ,, | 2. —Mortality in nine largest towns in United Kingdom in 1909 | 5 |
| ,, | 2 aComparative mortality of nine largest towns in certain periods of | |
| | time | 10 |
| ,, | 3. —Deaths in Leeds, 1909, and quarters ; age groups—births | II |
| ,, | 4. —Deaths per 1,000 living—birth-rate | 12 |
| ,, | 5. —Death-rates, children under I year, 1909, calculated several ways. | 15 |
| ,, | 5 aInfantile mortality, 1909, deaths at certain ages from stated causes | 17 |
| ,, | 5 bDeaths under one in districts from stated causes, and rates per | |
| | 1,000 born | 18 |
| ,, | 5 cAge groups under one, excess at certain ages in districts per cent. | |
| | of city rate at same ages in 1909 | 19 |
| ,, | 5 xInfant mortality-stated causes and ages, 1905-9 | 21 |
| | - Percentage of infantile death rate at certain ages, 1905-9 | 22 |
| ,, | 5 yDeath rate first 4 weeks of life per 1,000 born, 1905-9 | 24 |
| ,, | 5 zInfantile deaths and death rates, certain causes in districts 1905-9 | 26 |
| | Logarithmic chart of rates to face | 31 |
| | 6Mortality from tuberculosis, 1000 | 22 |

| | | | | | | PAGE |
|-------|---|----------|----------|----------|---------|--------|
| TABLE | 6 aComparative tuberculosis mortality since 18 | | | | | 33 |
| ,, | 6 bSame per 1,000 of population | | | | | 34 |
| ,, | 6 cPhthisis deaths at certain ages in intercepts | , and ra | ates for | 1909 | | 36 |
| | Mortality from consumption and other tube | erculou | s disea | uses, 18 | 90 | |
| | and quinquennia following | | | | | 37 |
| | Death rate from consumption, quinquent | | riods | 1885-9 | to | |
| | 1905-9 | | | | | 37 |
| ,, | 6 dDeaths from phthisis in intercepts 1905-9 | | | | | 38 |
| | Phthisis cases reported and deaths, 1902-3- | | | | | 42 |
| ,, | 7Deaths from lung disease grouped accordi | | | | | |
| | and age groups used in 6 c | | | | | 42 |
| ,, | 12 (altered).—Scarlet fever : Cases, deaths, town since 1890 ; death-rates (city) in bient | | | | | |
| | population hospitalled | na, and | r prop | - | 01 | 73 |
| | 12 aScarlet fever deaths and rates for four | neriod | s of t | en vea | re | 15 |
| " | 1870-1909 | | | | , | 74 |
| ., | 12 bScarlet fever cases reported each quarter sin | | | | | 74 |
| ,, | 13 (altered)Diphtheria and croup ; deaths sin | | | | | 75 |
| ,, | 17Causes of and ages at death, 1909, from a | | | | | 15 |
| ,, | deaths in several quarters from same | | | | | |
| | for year. (Notes to table 17, page 76) | | | | | 77 |
| ,, | 18 (altered)Cases of certain diseases notified i | n each | quarte | r of 19 | 09, | |
| | arranged in age groups | | | | | 78-79 |
| ,, | 19Deaths in municipal wards (those from insti | tutions | alloca | ted), 19 | 00 | |
| | and quarters. Death-rates for year | | | | | 80 |
| ,, | 20Deaths (those in institutions allocated) fr | | | | in | |
| | sub-registration districts, 1909 | | | | ••• | 81 |
| ,, | 21.—Do. per 1,000 living | | | | | 82 |
| " | 21 a-kFor each district : Population and birth | | | ~ | | 0 |
| | under one, and rates 1890-1909 (10 ta | | | | •••• | 83-92 |
| | - Births, deaths, and infectious diseases heard | | | | | 93 |
| ,, | 22 (altered).—Deaths from all causes and at al wards and districts for 1909 | | in inte | ercepts, | | 04 |
| | | | | | | 94 |
| " | 25.—Houses examined on account of infe | ctive | | | bas | 95 |
| " | according as their drains were or were | e not d | isconne | ected, a | ind | |
| | analysed as to closet arrangement, and | whethe | er or no | ot throu | igh | |
| | dwellings | | | | | 96-7 |
| | —The municipal year, 1909-10 | | | | | -0 |
| ,, | -The municipal year, 1909-10 | | | | | 98 |
| ,, | IDetails of ward inspectors' work in 1909 |), and e | quarter | s | | 99 |
| ,, | II.—Analysis of ward inspection, 1909 | | | | | 100-I |
| ,, | III.—River pollutions cut off to end of 1909 | | | | | 102 |
| ,, | IVInspection of existing workshops | | | | | 102 |
| | — — Bakehouses | | | | | 103 |
| ,, | IV a.—Home Office table, 1909 | | | | | 104-5 |
| ,, | V.—New workshops, 1909 | | | | | 106 |
| ,, | V a.—Outworkers | | | | | 107 |
| ,, | V bOther work of workshops' inspectors | | | | | 108 |
| ,, | VI. and VIIHouse refuse removal, 1909 | | | | | 114 |
| ,, | | | | | | 115 |
| ,, | | | | | | 116 |
| ,, | VIIIDairy and milkshops' inspection, 1909 | | | | | 117 |
| ,, | VIIIaVeterinary inspection of milch cattle at | farms, | | | | to 130 |
| ,, | VIIIbSamples of milk examined for tubercle | | | | | to 134 |
| | | | | | 2- | |

| | | | P | AGE |
|-------|--|-----|------|-----|
| TABLE | IX.—Samples of food and drugs analysed, 1909 | | | 135 |
| ,, | IX aSummonses issued, food and drugs, 1909 | | | 136 |
| ,, | IX cAdulterated samples where proceedings not taken | | 137, | 138 |
| ,, | XI.—Smoke inspection, 1909 | | | 139 |
| ,, | XII.—Disinfection, 1909 | | | 139 |
| ,, X | XIII. and XIV.—Patients admitted to infectious hospitals, 19 | 09 | | 140 |
| ,, | XVInspection of canal boats, 1909 | | | 141 |
| ,, | XVIInspection of houses let-in-lodgings, 1909 | | | 141 |
| ,, 1 | XVII.—Other work of temporary dwellings sub-inspector, 1 | 909 | | 142 |

APPENDIX.

TABLE A.—Part I.—Causes of death in registration sub-districts; institutions as separate districts.

- ,, A.—Part 2 α.—Populations, births, mortality at certain ages in registration sub-districts, public institutions being classed as separate districts.
- , A.-Part 2 β.-At certain age groups. Institution deaths allocated.
- ,, A.—Parts 3, 4, 5, 6, similar to part 1 for several quarters of 1909, and part 7 for the first quarter of 1910.
- ,, B.—Part I.—Population, births, new cases of certain infectious diseases in districts, and admissions to infectious hospitals, 1909, arranged for registration districts.
- ,, B.-Part 2.-Similar, except as to births, to part 1, but for wards.
- " B.—Parts 3, 4, 5, 6, cases reported in each ward and sub-district, during the several quarters of 1909, and part 7, during first quarter of 1910.
- ,, C.—Deaths classified as to cause, age, and district. Institution deaths allocated. Notes (See also note to table 17, p. 76).
- ,, D.—Death-rates in Leeds from certain groups of causes for each of the twenty years, 1890-1909.
- ,, D.—Part 2.—Population, births, birth-rate; deaths under one, rate per 1,000 births; deaths at all ages, and death-rate, gross and nett after allocation, for the twenty years, 1890-1909; averages for decade, 1899-1908.
- ,, E.—Part I.—Births, birth-rate, deaths, death-rate for registration districts; and deaths and death-rate for municipal wards (institution deaths in both cases allocated) for the year 1909.
- ,, E.—Parts 2, 3, 4, 5, similar for each quarter of 1909, and 6 for first quarter of 1910.
- ", F.—Births, deaths in Leeds from all and certain groups of causes, sickness, and meteorological data for each week of fourth quarter, 1908, of each quarter of 1909, and of the first quarter of 1910.

The material asked for in the new Local Government tables will be found as follows :---

I.-In table D, part 2.

II.—In tables 21 a-k for districts and table D 2 for city.

III.-Age groups in new table 18, pp. 78-9; localities in table B.

IV.—Ages in table 17, pp. 76 and 77 (altered from old table 17 to include ages), including, however, all deaths in institutions; localities in table C, where institution deaths allocated, and in table A, part 2β , where institution deaths are given separately for each district, and the district deaths with and without these allocated deaths given for age periods.

V.-Infantile mortality, 5a p. 17, 5b p. 18, 5c p. 19.

Digitized by the Internet Archive in 2017 with funding from Wellcome Library

https://archive.org/details/b29957096

ANNUAL REPORT, 1909

(PRELIMINARY).

Mr. Chairman,

It has been usual to furnish the Sanitary Committee at an early meeting in January with a few tables dealing with the vital statistics of the previous year, and in the fuller report to deal more in detail with special matters. You have already had a statement as to the death rate for the year in Leeds and the eight other largest towns in the United Kingdom. Some further general tables are annexed, and I propose, as has been done in some previous years, to incorporate with these preliminary tables a few general remarks upon the health of the City in 1909, and to defer the fuller consideration of some important matters to a supplementary portion of the report.

Assuming that the Registrar-General is justified in estimating our population to the middle of 1909 at 484,012, including all deaths that are registered within the City itself, in our Fever Hospital outside our City boundary, and of Leeds persons in the Hunslet Workhouse, also in a neighbouring township,* our mortality during the year has been just under 14.21 per thousand. If, however, we leave out certain other deaths occurring in the General Infirmary, the Women and Children's Hospital, the Leeds, the Holbeck, and the Bramley Workhouses, which were those of persons admitted from outside our boundaries, but adding certain other deaths in institutions such as the Wakefield Asylum not within the City, of persons alleged to belong to Leeds, the rate is one of 14.06.[†]

^{*} Omitting, however, from the Fever Hospital and the Hunslet Workhouse deaths of any inmates not belonging to the City.

⁺ The figures from which the latter rate has been deduced **a**re those in the three earlier quarterly reports and in the thirteen weekly reports received during the fourth quarter of 1909. The difference is not very great, and probably when the report for the fourth quarter and the annual summary are received from Somerset House, some correction of these figures may be necessary.

Annual Report, 1909.

We are probably not very far out if we assume that the gross death rate in Leeds was 14.2, and the death rate after the allocation of institution deaths 14.1 per thousand per annum. It will be understood that in speaking of corrections in this sense, we are dealing only with the allocation or "settlement" of persons dying in public institutions, and the word "correction" should not be understood as referring to changes introduced by the Registrar-General into the crude death rate to allow for the varying age and sex distribution of the population. The following figures refer only to the gross death rates in Leeds, disregarding altogether the allocation of institution deaths as carried out by the Registrar-General. In comparing Leeds with Leeds, it is better on the whole to take the larger of the two rates.

Seven Zymotics.—During 1909 the "seven zymotic diseases" contributed only 0.81 deaths per thousand of the estimated population, as compared with 1.55 in 1908 and 2.21 in the ten years, 1899-1908, see table on p. 10.

The rate from measles was only half what it was in 1908, and very little more than a third of the rate in the decade 1899-1908.

From scarlet fever also the rate was slightly lower than in 1908, and less than a sixth of what it was in the decade.

On the other hand, the deaths from diphtheria and membranous croup have severally and together been slightly increased. The increase in the number of deaths, allowing for the growth of population, is equivalent to one of 0.03 per 1,000 of the population when the two diseases are taken together. Whilst, however, the death rate is 0.03 above that of 1908, the rate is below that of the decade, which for the two diseases was 0.28, or more than double that for 1909.

Whooping cough was also much less fatal in 1909, the rates to two decimal places being 0'17 and 0'29 in 1909 and 1908 respectively, whilst the rate for the decade had been 0'35, or quite double that of the year we are considering.

General health conditions.

Typhus, typhoid and continued fever together caused 42 deaths in the 52 weeks of 1909, as against 25 in the 53 weeks of 1908. Allowing for the increase of population, the corresponding rates are 0.09 in 1909, 0.05 in 1908, and 0.13 in the decade. The difference between the death rate in 1909 and 1908 is equivalent to an increase of less than 0.04 in the later as compared with the earlier year.

Diarrhœa, the last of the seven zymotic diseases, caused only 0.23 deaths per thousand in 1909, as against 0.70 in 1908 and 0.86 in the decade. Enteritis, which is often associated with diarrhœa, but which is not counted as one of the seven diseases, had a rate of 0.17 in 1909, against 0.21 in 1908 and 0.24 in the decade.

The diminution in the zymotic rate has been chiefly due to a lessened fatality from measles and diarrhœa. Diphtheria with membranous croup, and the continued fevers have in each case caused a slightly increased rate as compared with that of 1908, but for both diseases the rate was considerably below that of the decade.

Other infectious diseases.—The death rates from puerpural fever and erysipelas are slightly above those in 1908, and together practically about the same as in the decade 1899-1908.

From consumption the number of deaths recorded in the 52 weeks of 1909 was 548, as against 621 in the 53 preceding weeks —the weekly average being 10.5 in 1909 as against 11.7 in 1908. and the mortality rates, allowing for the presumably increased population, 1.14 in 1909, as against 1.28 in 1908 and 1.32 in the decade. Tuberculous diseases, other than consumption, were credited with 274 deaths in the 52 weeks of 1909, as against 301 in the 53 weeks of the preceding year—the weekly average of deaths from these causes, disregarding the population, being 5.3 in 1909 and 5.7 in 1908. Grouped together, the tuberculous diseases, therefore, caused an average of 15.8 deaths per week in 1909 and 17.4 in 1908. Allowing for the increase of population,

TABLE 1.

Annual deaths per 1,000 of the estimated population.

| | All causes. | Seven zymotics.† | Consump- tion. | Bronchitis, pneumonia, pleurisy. | Other lung diseases, without influenza. |
|-------------------------------------|----------------|---------------------|-------------------|--|--|
| Five years, 1885-89 (261 weeks) | 21.16 | 2.78 | 1.20 | 3.93 | -0'27 |
| *Five years, 1890-94 (261 weeks) | 21.16 | 2.22 | 1.01 | 4'43 | 0.31 |
| *Five years, 1895-99 (261 weeks) | 19.77 | 2.74 | 1'47 | 3.24 | 0'22 |
| Five years, 1900-04 (261 weeks) | 18.36 | 2.48 | 1.36 | .3.18 | 0.1ð |
| Year 1905 (52 weeks) | 15.65 | 1.60 | 1.53 | 2.26 | 0.10 |
| Year 1906 (52 weeks) | 16.03 | 2.23 | 1.23 | 2.46 | 0.16 |
| Year 1907 (52 weeks) | 15.42 | 1.59 | 1.50 | 2.81 | 0.16 |
| Year 1908 (53 weeks) | 15.49 | 1.22 | 1.58 | 2.75 | 0.12 |
| Year 1909 (52 weeks) | 14.51 | 0.80 | 1.14 | 2.68 | 0.13 |
| 1909 increase on 1908 | | | | | 0.04 |
| " decrease " 1908 | 1.28 | 0.75 | 0.14 | 0.02 | |
| 1909 increase on '85-9 | | | | | |
| " decrease on '85-9 | 6.95 | 1.98 | 0.20 | 1.52 | 0.08 |

* Estimated upon the population calculated from the data of the recent census and those of 1881 and 1891.

+ Exclusive of membranous croup which the Registrar-General did not include in the seven zymotics until 1894.

The rates in this table throughout are calculated on the deaths registered as occurring in the city and its hospitals without any deduction for the deaths within the city of persons not belonging to Leeds.

4

TABLE 2.

Shewing the death rates in the nine largest towns of the United Kingdom for the 52 weeks, and each of the thirteen week periods of 1909 (altered).

| | | First quarter of 1909. | Second quarter of 1909. | Third quarter of 1909. | Fourth quarter of 1909. | 52 Weeks. |
|------------|---|---------------------------------|----------------------------------|---------------------------------|----------------------------------|-------------------|
| London | - | 19.0 | 12.8 | 10.8 | 13.2 | 14.0 |
| Leeds | - | 17.4 | 13.3 | 11.9 | 13.7 | 14.1 |
| Sheffield | - | 20'0 | 14.8 | 12.8 | 12.7 | 15.1 |
| Edinburgh | - | 18.2 | 15.8 | 12.5 | 14.9 | 15.3 |
| Birmingham | - | 21.0 | 14'2 | 12.5 | 14.5 | 15.4 |
| Glasgow | - | 19.8 | 16.6 | 12.6 | 20'9 | 17.5 |
| Manchester | - | 22.2 | 17.9 | 14.4 | 17.2 | 17 [.] 9 |
| Liverpool | - | 23.2 | 18.0 | 16.3 | 18.6 | 19.0 |
| Dublin | - | 25.7 | 20.9 | 17'2 | 20.0 | 20'9 |

Rates for Edinburgh and Glasgow are for calendar quarter and year.

The above figures differ slightly from those given in the report as originally presented, the Registrar General having corrected the death rate of London from 14'2 to 14'0. There were also some slight alterations in other figures when the fourth quarter and the annual summary were printed, but none of the others affect the order of the towns.

Annual, 1909.

these numbers are equivalent to a death rate from all diseases registered as tuberculous of 1.70 in 1909 and 1.90 in 1908, the rate for the decade having been 2.04.

Bronchitis, Pneumonia and Pleurisy .--- There are three diseases commonly more or less associated-bronchitis, pneumonia and pleurisy. Bronchitis includes, of course, a large number of deaths in very young children, and these deaths are sometimes registered as bronchitis, sometimes as bronchopneumonia, in either case they are included under the first heading in this group. But if they are registered simply as pneumonia, they are included under the second heading of this group. In the same way a number of deaths of elderly persons are put down to bronchitis which might, perhaps, as correctly in some cases be classed as due to general decay-the symptoms called bronchitis indicating the mode of dying rather than the cause of death. There are, however, in addition, a certain number of deaths from the disease which the Germans call "croupous pneumonia" and which at various times has been known as "acute pneumonia," "sthenic pneumonia," and "lobar pneumonia." Deaths properly classed under any of these three headings are probably due to a distinct febrile disease, running a definite course-as definite as the course of typhus or smallpox, and frequently more definite than that of the disease known as enteric or typhoid fever. Unfortunately, vagueness in certification prevents our being able to separate this zymotic fever in every case from other cases called simply pneumonia. Deaths simply certified as "pneumonia," may have been due to this infective disease, or they may have been like the bronchitis of elderly people, due to a general tendency to decay, or they may have been due to simple extension to the lung cells of the disease known as bronchitis. The simple word "pneumonia" again might indeed be intended by the certifier to apply to the lobular pneumonia of childhood, to the hypostatic pneumonia of age, to the pneumonia following influenza, or to the real zymotic disease already mentioned. Meantime, it is convenient to keep

6

General.

the group recommended by the Local Government Board and to include bronchitis, pneumonia and pleurisy under one heading. This group is credited in 1909 with a death rate of 268 per thousand of the estimated population, as against one of 275 in 1908 and 299 in the decade.

These figures, taken for what they are worth, indicate that in 1909 there were, in proportion to the estimated population, slightly fewer deaths from this group than in 1908, and appreciably fewer than in the decade. This is interesting, in view of the superstition that a wet season is apt to cause colds, and an increased mortality from chest diseases. Nineteen hundred-and-nine was emphatically a wet year, and yet the deaths from this group were appreciably less than in the ten preceding years.

All lung diseases.—On the other hand, there was a somewhat higher rate from the much smaller group classed as other lung diseases, and which includes such causes of death as asthma, emphysema, empyæma, pulmonary congestion, and other lung diseases somewhat indefinitely described. In 1909 the number of deaths ascribed to this nondescript group was 91, an average of 1'75 a week. In 1908 in 53 weeks the corresponding number had been 73, an average of 1'38 a week, raising the weekly average from all lung diseases to 26'6 in 1909, as compared with 26'5 the previous year, but when the increase of population is allowed for, the rate in 1909 becomes from all lung diseases, exclusive of influenza and consumption, 2'87, as against 2'90 in 1908 and 3'17 in the decade.

Even when we take these more or less chronic diseases into consideration, the wet year had a considerably lower death rate from lung diseases than the average of the much dryer years in the decade.

Death rate generally.—On the whole, therefore, it may be said, if we may adopt the Registrar-General's estimate of the population, that the year 1909, as indicated by the death rate, is distinctly the healthiest on our record, which goes back as far as

Annual, 1909.

1865. This is in itself satisfactory, but it is more satisfactory when we take into account that the death rate for the five years of which it forms the last (15.36), is conspicuously below that of any five years in our record. Not only is the death rate for the five years lower than that of any five consecutive years in the period named, but it is a lower rate than obtained in any one of the five years from 1865 to 1904.

INFANTILE MORTALITY.

Calculated upon the number of births registered during the year, the mortality amongst children under the age of twelve months was at the rate of 123 per thousand born. This is again the lowest rate of infantile mortality that I have ever had to report to you. During the five years 1890-4, the lowest infantile mortality, reckoned in the same way, was 156, and the highest 206, the average being 176. During the five years 1895-9, the average rose to 181, the lowest having been 172, and the highest 190. In the following quinquennium, 1900-4, the lowest rate was 153, and the highest 188, the average being 172. During the five years of which 1909 was the last, the average infantile mortality has been 139, the rate in the individual years being-in 1905, 152; in 1906, again 152; in 1907, 131; in 1908, 138; and in 1909, 123. With the slight exception of the rise from 131 in 1907 to 138 in 1908, it will be noticed that the improvement has been an almost continuous one.

The influence of weather upon infantile mortality was dealt with somewhat fully in my annual report for 1904, and doubtless a considerable amount of the remarkable drop in infantile mortality last year has been due to the wet summer. But the fact that the improvement has been a steadily increasing one during the five years' period, makes us hope that sanitation has also had something to do with the lessening of the mortality amongst the newly-born. This matter will be referred to more in detail in the supplementary portion of the report.

COMPARATIVE MORTALITY.

In table 2 will be found a statement made up from figures published by the Registrar-General, showing the comparative

General conditions.

9

mortality of Leeds and the eight other largest towns in the United Kingdom for 1909, and each of its quarters. For the year it is subject to any alterations that may be called for when the revised annual summary is published.

Taking it, however, as it stands, Leeds has the lowest death rate of any of these nine towns. The difference between the rate of Leeds and that of London is so very small, that it is not improbable that when the corrected figures are published, the relative positions of these towns may be reversed, but no correction is likely to affect the position of Leeds with regard to the other towns on the list. Reference has already been made to the two kinds of corrections made by the Registrar-General. The correction that has just been mentioned is simply one due to the addition or subtraction of deaths of persons not belonging to the individual towns. A further correction has also been referred to, of the kind described in a recent article in the "Yorkshire Post," by which he mortality of England has been compared with that of various other countries. To do so it has been thought necessary to allow for the fact that some of these countries have a large proportion of persons at the more resisting ages, while others have a larger proportion of older persons whose death rate is necessarily higher. A similar correction for the death rate has been made out for each of the English towns, but it has not yet been published for Edinburgh, Glasgow, Dublin, so that I have not been able to alter table 2 accordingly. Corrections of this kind for the large English towns do not generally affect the relative order, although they may affect the individual rates. As a rule, when the correction is made the healthy towns appear more healthy and the unhealthy towns less healthy. It is probable, therefore, that any correction of this sort in table 2 will not materially affect the position of the towns as shown in order of death rate. Before the supplement of this report is issued, one may be able to speak more fully upon this subject.

J. SPOTTISWOODE CAMERON.

LEEDS, February 10th, 1910.

TABLE 2a.

Comparative mortality of nine largest towns in United Kingdom in periods of time.

| ars. | 14.4 | 1.51 | 9.9I | I.91 | 1.91 | 17.8 | 18.4 | 5.61 | 22.0 | |
|---|-------------|-------------|------------|------------|------------|---------|------------|------------|-----------|---|
| our ye | н : | I | г | | : | | н н | I | 2 | |
| 1894—1897. Four years. 1898—1901. Four years. 1902—1905. Four years. 1906—1909. Four years. | 16.0 London | Leeds | Edinburgh | Birmingham | Sheffield | | Manchester | Liverpool | | |
| years. | 0.91 | 6.9I | 6.9I | 17.4 | 1.81 | 1.61 | - 8.6I | 21.3 | 23.0 | |
| Four | : | : | : | : | | : | : | : | : | |
| 1902—1905. | 18.7 London | Leeds | Edinburgh | Sheffield | Birmingham | Glasgow | Manchester | Liverpool | Dublin | |
| /ears. | 18.7 | <i>t.61</i> | 5.6I | 20.7 | 21.4 | 21.2 | 23.2 | 24.6 | 27.5 | |
| Four y | : | : | : | | : | : | : | : | : | |
| 1898—1901. | 18.6 London | Leeds | Edinburgh | Birmingham | Sheffield | Glasgow | Manchester | Liverpool | Dublin | |
| /ears. | 9.81 | 1.6I | £.61 | 2.6I | 20.3 | 21.4 | 22.8 | 24.9 | 26.6 | - |
| Four | : | : | : | : | | : | : | : | : | |
| 1894—1897. | 20'2 London | Edinburgh | Leeds | Sheffield | Birmingham | Glasgow | Manchester | Liverpool | Dublin | |
| ears. | 20.5 | 6.02 | 21.3 | 6.12 | 23.0 | 24.2 | 26'I | 26.4 | 26.8 | |
| our y | : | : | - | : | : | : | : | : | : | |
| 1890-1893. Four years. | Edinburgh | London | Birmingham | Leeds | Sheffield | Glasgow | Dublin | Manchester | Liverpool | |

Leeds is the only one of the above extra-metropolitan districts in which the area has not been enlarged during the period embraced by the table. The method of enumerating the deaths in London was altered in 1903, certain deaths formerly assigned to London having since then been otherwise distributed, some of them to the five English towns given above.

10

Supplement.

II

AGE MORTALITY.

Table 3 gives the number of registered births, the number of deaths registered at all ages and at certain groups of ages, for the City, for each quarter of the year and for the whole fifty-two weeks. These numbers may be considered as accurate.

The line, however, in this table giving the estimated population cannot be looked upon with quite the same confidence. The population at all ages, 484,012, is the estimate of the Registrar General, and is accepted as such. The figures which follow it for each different age group are calculated from it on the supposition that the numbers living at these ages bear the

TABLE 3.

Births and deaths registered in the City of Leeds in the four periods of 13 weeks ended respectively 3rd April, 3rd July, and 2nd October, 1909, and 1st January, 1910. Deaths in age groups.

| | | Мо | RTALITY | FROM AL | L CAUSES | AT SUBJ | OINED A | GES. |
|-------------------------------------|----------------------------|-----------------|---------------------|-------------------------|--------------------------|---------------------------|---------------------------|-----------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1909. Estimated population at | Regis- tered Births. | At all Ages. | Under I Year. | I and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 60. | 60 and upwards. |
| these ages | | 484,012 | 12,678 | 43,596 | 99,226 | 97,413 | 203,595 | 27,504 |
| I. Quarter | 2,851 | 2,118 | 328 | 208 | 67 | I I 2 | 663 | 740 |
| II. Quarter | 2,826 | 1,623 | 334 | 151 | 68 | 95 | 483 | 492 |
| III. Quarter | 2,814 | 1,452 | 385 | 163 | 50 | 67 | 404 | 383 |
| IV. Quarter | 2,511 | 1,661 | 303 | 159 | 69 | 71 | 502 | 557 |
| 52 weeks | 11,002 | 6,854 | 1,350 | 681 | 254 | 345 | 2,052 | 2,172 |

Age mortality, 1909.

same ratios to the whole population that the number enumerated at these several age periods at the census bore to the whole enumerated population of the City. As, however, the birth-rate has been steadily decreasing it is not improbable that, even assuming that the population at all ages is accurate, the numbers in columns 4 and 5 will be in excess of the real numbers, while in some of the later columns the figures printed may be below the actual population at those ages.

In table 4 the figures for each quarter and for the whole year are calculated upon these admittedly provisional populations. This matter, it may be remembered, was referred to in the report for 1906 at pages 11, 12, and 13. It is perhaps unnecessary

TABLE 4.

Birth and death rates in the City of Leeds in the four periods of 13 weeks ended respectively 3rd April, 3rd July and 2nd October, 1909, and 1st January, 1910. Death rates in age groups.

| | | DEATHS PER ANNUM PER 1,000 LIVING. | | | | | | | | | |
|--------------|-----------------|------------------------------------|---------------------|-------------------------|--------------------------|---------------------------|---------------------------|---------------------|----------------|------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| 1909. | Birth- rate. | At all Ages. | Under 1 year. | I and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 60. | 60 and upwds. | 25 to 65 | Over 65 | |
| | | | - | | | | | | | | |
| I. Quarter | 23.6 | 17.6 | 104 | 19.1 | 2.7 | 4.6 | 13.1 | 0.801 | 15.2 | 147.3 | |
| II. Quarter | 23.4 | 13.2 | тоб | 13.9 | 2.8 | 3.9 | 9.2 | 71.8 | I I '2 | 96.7 | |
| III. Quarter | 23.3 | 12.0 | 122 | 15.0 | 2.0 | 2.8 | 8.0 | 55'9 | 9.3 | 74.5 | |
| IV. Quarter | 20.8 | 13.8 | 96 | 14.6 | 2.8 | 2.9 | 9.9 | 81.3 | 11.2 | 113.2 | |
| 52 weeks | 22.8 | 14.5 | 107 | 1 5 7 | 2.6 | 3.6 | 10.1 | 79'2 | 11.9 | 108.0 | |

Dead reckoning.

to do more than mention it here. The discrepancy at some of the ages in 1909 will probably be considerable, more considerable than that estimated for 1906. Had an age and sex census been taken in 1906 this discrepancy might have been very much diminished. Our calculations for 1906 involved a dead reckoning of $5\frac{1}{4}$ years, not only in regard to the whole population, but in regard to the proportions of that population living at different ages. Even if the whole population had been approximately correct the age populations given in table 3, as was shown at the time, were inaccurate. In 1909 the dead reckoning is one of $8\frac{1}{4}$ years and the errors, both in the whole population at all ages and of the numbers living at the several age-groups dealt with in the table are probably very considerable.*

Infant mortality.—About the mortality of infants there is less doubt if we restrict ourselves to the usual method of stating the ratio of the mortality to the number of births in the same period. The second line in table 5 gives this mortality as usually calculated. It is obviously not the real mortality of infants, it is the ratio between the births and the deaths of children under one, the latter figure being for convenience multiplied by a thousand.

It has been already mentioned that the rate of 123 thus calculated is the lowest we have ever recorded. If the population under one year of age in 1909 bore the same proportion to the total population as at the time of the census of 1901, and

The following table for 1909 shows how a similar re-calculation of the rate alters the population given in table 3 of the present report and consequently the rates in table 4.

| P | opulation a given in | LS | All Ages. | Under One. | One to Five. | Five to Fifteen. | Fifteen to Twenty-five. | Twenty-five to Sixty. | Sixty and Upwards. |
|--------|-------------------------|----|--------------------|------------------|------------------|---------------------|----------------------------|--------------------------|-----------------------|
| | table 3 revised | | 484,012 484,012 | 12,678 12,004 | 43,596 41,553 | 99,226 93,751 | 97,416 96,065 | 203,595 212,304 | 27,504 28,335 |
| A B | | | 14'2 14'2 | 107 113 | 15.7 16.4 | 2.6 2.7 | 3.6 3.6 | 10°1 9'7 | 79°2 70°9 |

^{*}It was shown in the report for 1906 that if the age population were calculated in the same manner as the population at all ages, the rates given in table 4, column 4, for that year would require to be increased by 3.6 per cent., in column 5 by 3.2 per cent., and in column 6 by 3.8 per cent. The correction for this revised population for 1906 was only one of 0.9 per cent., in column 7, the printed figures being, however, practically unaltered. In column 8 the re-calculated population reduced the printed rate $3\frac{3}{4}$ per cent. and in column 9 by nearly 2 per cent.

Infant mortality.

the population for the whole City be correctly estimated, the real death rate would be 107 not 123. This figure of 107 is obtained by dividing 1,350 deaths of children under one by the population of children at that age estimated by the method described and is quite an absurd one. The actual births registered were only 11,002, and if we suppose that half the deaths amongst infants in their first year occurred before the middle of the year,* the population at that age would be only 10,327, giving a rate of mortality per thousand of 131 instead of 107.

This figure regarded as a death-rate is probably more accurate than that of 123. The usual method of calculating the deaths as a ratio to births is evidently inaccurate. The birth population includes, of course, those already dead. Though the more correct death-rate is probably 131, the number 123 being calculated in the ordinary way, used in all towns, is the one we must adhere to, and so long as it is remembered that it is not a death-rate upon the population but a death-rate upon the births, the method is convenient.

Another method of estimating the death rate of infants under one is given in table 5 in the third line. It is a variant on the ordinary method, and is calculated upon the principle of taking an average of the births in the five quarters of which the particular quarter was the last. The rate for the year which is the mean of the rates for the quarters comes out at 117 instead of 123. This is due to the fact that the birth rate is decreasing each quarter, and that in estimating the mortality upon the average of five quarters, we get a lower mortality than if we estimate in each case on the births in the quarter under consideration. The method of taking the average of five quarters was introduced some years ago to get rid of the fallacy due to seasonal or temporary variations in the number of births, but when we commenced to use it we did not expect that the birthrate was going to decline continuously.

^{*} It will be seen later that, during the five years 1905-9, half the children who died in the first year of life died before they were three months old. (See p. 20).

TABLE 5.

Mortality in Children under one year of age, during the 52 weeks of 1909.

| | First Quarter. | Second Quarter. | Third Quarter. | Fourth Quarter. | YEAR. |
|--|-------------------|--------------------|-------------------|--------------------|-------|
| Calculated per 1,000 of the population under 1, es- timated to the middle of 1909, on the supposition that the whole population of the city was that estimated by the Registrar General, and that the number of children under one bore the same propor- tion to the population as at the 1901 census | 104 | 106 | 122 | 96 | 107 |
| Deaths under I per 1,000 births registered in same period | 115 | 118 | 137 | 121 | 123 |
| Deaths per 1,000 registered births, the latter instead of those for the same quar- terly period being the average of the same and four preceding quarters. The rate for the year is the mean of the four | | | | | |
| quarterly rates | 110 | 114 | 135 | 110 | 117 |
| Average rate by last method for five preceding years Average rate by second | 134 | 119 | 197 | 144 | 149 |
| method for years 1886-90 (from table 711890 report) | 158 | 147 | 223 | 171 | 175 |

Infantile mortality, 1909.

Extended tables .- The usual tables dealing with this subject for the year 1909 have been prepared. No. 5a shows, in certain age periods, the mortality from different diseases or groups of diseases. The remarks made in previous reports as to the lines in italics do not require any alteration. In this table the deaths from the several diseases in children under the age of one week, between one week and two, and between three and four weeks, are given separately, and are collected together under the heading of "total under one month," a month being in this case a lunar month. The two following columns deal with the deaths of children stated to be one month but less than two months old, and two months but under three. The figures of these two groups are also collected under the heading "one and under three months," but in this case the one month is a lunar, but the three months are understood to be calendar months. The three following columns deal with the deaths of children aged between three and four, four and five, and five and six months, and these are collected under the heading "three and under six months." The three following columns deal similarly with three following months and are collected under the heading "six and under nine months." The same applies to the three last months under twelve. It is, of course, understood that these ages refer to the ages of the children at the time of death.

Altogether in the year, 1,339 deaths of children under the age of one year were recorded and certified, 4 uncertified deaths were also recorded. In addition to these, but not included in table 5a, 7 deaths, all certified, occurred in public institutions of children not born in Leeds, making 1,350 deaths registered in the fifty-two weeks. During the same period, 11,002 births were registered in the City, giving an infantile death rate per thousand born of 123 as previously said. Only the 1,343 deaths are included in table 5a, and in making deductions from these figures, the 93 births occurring in workhouses are omitted. Leaving out these 93 births in workhouses, but counting deaths

TABLE 5 a.-Infantile Mortality during the year (52 weeks ended 1st January, 1910).

| 784 . | | | | | 1 | | | | | 1 |
|---|---|---|---|---|--|---|---|---|---|--|
| | 1,339 | : ° '9 : : ° : : \$ | 34 0.9 2 6 3 | 245 43 43 62 62 62 62 102 | 1 0 0 0 0 0 0 0 0 0 0 0 | 107 107 | 115 1/2 26 | 33 56 66 | 1,343 | |
| Nine and under twelve mths. | 178 | -1; ; 00; 00; ; | 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | ::::::: | 0000 ; 0 | :======== | 35 9: 35 | 141 | 178 | |
| 11-12 mths, | 53 | ::*:::: | 9:44: | | 04 : : : 1 ⁰⁰ | : : : ••• = | 1 2 : 2 | : 0, 4 | 5.7 | |
| 10-11 mths. | 56 | ::=::: | w = : : w | ::::::: | :-:: | : - = 0 = | r₿:4 | Has m | 56 | |
| 9-to mths. | 65 | :::::::::::::::::::::::::::::::::::::: | 10 : : : N | :::::** | m = a ∶a | :: ** ** : | 16 10 3 | : m = | 65 | |
| Six and under nine mths. | : 308 | 14:: 1: 6 2: | 300 : 00 IG | 48 H I I 39 | 01010 | :=0000 | 8818 | 11 17 | 208 | |
| 8-9 mths. | 00 : 10 : | 1191119 | or m ; ; · | :-:: >-:0 | | ::=:~ | 8 10 1 | ; m m | 58 | |
| 7-8 mths. | 2: | ; N M ; ; ; , Ŧ | °°°∶:° | 1711.190 | | :: | 00 H M | : 00 10 | 20 | |
| 6-7 mths. | 80 : | ::*:*::* | 00 m ; 0 h | нн::::::u | ::*>* | : | 6 : 6 6 : | . %. | 80 | |
| Three and under six mths. | 256 | ::=:::g | 30 8 17 17 | No: 6 : 6 | 8 J B C 0 | S51 3: | 25 25 5 | 3 5 15 | 256 | p. 17. |
| 5-6 mths. | : 00 | ::*::::0 | °: + :⊘ | 8 F : : : : : : : : : : : : : : : : : : | a : a : : | :: + 0 0 | 9 10 | - * * | 85 | r 1906, |
| 4-5 mths. | 76 | ::::::= | ه . : ب | : ** : ** : ** # | | :::: | ∞ m ; n | : ~ ~ | 76 | in Annual for 1906, |
| 3-4 mths. | 56 : | ::::::: | Ξ + : αφ | ∺::: > : ∺ ∰ | : = 420 | : : : 1 | ±. 6. ≡ | a : 4 | 95 | t in An |
| One and under three mths. | 230 | ::"::::6 | 16 4 8 8 8 | $^{21}_{55}$ $^{21}_{55}$ $^{21}_{11}$ $^{21}_{11}$ $^{21}_{13}$ $^{21}_{13}$ $^{21}_{13}$ | 3: 10 | 8116: | 25 15 28 28 | 3 | 230 | and text |
| a-3 mths. | 102 | :::::: | r n n - n | 00 H ; ; ≯ ; m ¥ | m = m ; m | : ** : ** | 11 0 1 1 | = : m | 102 | p. 74, a |
| 1-2 mths. | 128 | ::-:::* | o = = : n | 13 4 : : : 4 10 | ::*:: | : e = : E | 12 9 1 | a : r | 128 | 17, |
| Total under one mth. | 467 4 | | 400 joj | 851 8 1 5 2 8 3 8 9 8 9 8 9 8 9 8 9 8 9 9 9 9 9 9 9 | :: | :*::5 | :: 5 ~ 3 | 5 16 | 471 | See note to table |
| 3-4 wks. | 30 | :::::::: | | | ::::: | : ** : : ** | :*:: | - : ⁶¹ | 30 | See not |
| 2-3 wks. | 57 | :::::: | * * * : * | ₽°°∶∶ ° ;9 m | ::::: | :*::* | ° : : : | • : 9 | 57 | * |
| 1-2 wks. | - 20 | ::::::: | | 8 9 = 1 A ; 8 0 9 5 5 5 6 7 7 7 7 7 8 0 | ::**: | :*::0 | ** : : | = : M | 76 | |
| ı week. | 304 4 | ::::::: | ::::: | 176 26 21 20 21 20 21 | ::::" | : • : : 3 | * : : : | ei : 10 | 308 | |
| | :: | |) catarrh } | | · · · · · · · · · · · · · · · · · · · | | | n italics) | | |
| CAUSES OF DEATH. | Certified | Chicken-pox | diseases. | 'saseastb | culous diseases. | | Bronchitis | Suffocation, over-laying | TOTALS . | |
| | $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | Access or DEATH. We were a set of the set o | AUSRES OF DRATH. 1 week. 1 | $ \left(\begin{array}{c} \text{Cutars or District} \\ \text{Cutars or District} \\ \text{weak} \\ \text{weak}$ | $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | $ \begin{array}{l l l l l l l l l l l l l l l l l l l $ | $ \label{eq:relations} \label{eq:relations} \label{eq:relations} with with with with with with with with $ |

Deaths from stated causes in each registration district, with rates per thousand births in the district. TABLE 5b.-Infantile Mortality during the year (52 weeks ended 1st January, 1910).

| City death- rate | p e e e | 15 15 3.8 3.8 | 9.0 9.0 7.2 | 225 270 270 270 270 270 270 270 270 270 270 | 32 32 32 32 32 32 | 0.2 0.3 0.8 | 10'5 0'3 2'4 | 171 3°0 6°1 123°1 | 10,909 |
|------------------------|---------------------------------|--|--------------------------|--|----------------------------------|---|---------------------------|----------------------------|--|
| OSMOND- THORPE. | Rate per 1,000 births. | | ::::: | | ::::. | ::::: | :::: | :::: | . 91 |
| Os | Desths. | ::::::: | ::::: | | ::::: | ::::: | : : : : | :::: | |
| CHAPEL- TOWN. | Rate per 1,000 births. | 3:: 5: 5: | 32 22 | 180 955 975 171 | 2::22 | : | 63 105 | 89'3 | 952 |
| CH | Desths. | ::":":" | н н 65 н и | 8 0 m ; <i>y</i> ; + H | м н I I 6 | ::== | 9 9 9 | ::* 50 | |
| BRAMLEY. | Rate per r,coo births. | :::::: | \$: : : : | 310 370 40 | : : : : : : : : | 2.5 | 12'3 9'9 .: | 2.2 | 405 |
| BRA | Deaths. | ::::::: | - : : : : | | ::::- | : : = N M | -10 # ; H | ::" 9 | |
| KIRKSTALL. | Rate per 1,000 births. | :::::::::; | 52:52 | 148 242 : 22 242 : 22 242 | 5: 5 5 | 322 | 4.5 7.4 7.4 | 1'1 2'1 3'2 89'0 | 944 |
| KIRKS | Desths. | ::m::::* | × + : • • | ама: м:+м | × • • • : • | ::°°°5 | 4.1~ H H | - 01 FF - 40 | |
| WORTLEY. | Rate per 1,000 births. | 3:: | 5'0 3'0 4'5 | 283 30 15 15 15 22 07 07 | 0.1 | : | 11'9 5'9 0'7 1'5 | 1.02 3'0 1'5 | 1,345 |
| WOR | Desths. | ::*:::* | ∞ + : :∕o | 80 + 1 : 6 m 0 0 | ::0~0 | :::: | 10 - 10 IV | 2 4 4 13 175 | 16 |
| HOLBECK. | Rate per 1,000 births | 3:0 ::: | 200 20 70 70 | 200 200 200 200 200 200 200 | 5.0 | : : : : : : : : : | 13.0 | 100 1.00 3'0 10'4 | 02 |
| HOLF | Desths. | :: m : : : : m | ra : + > | ⁰ ии: и: ию | a : N : a | :: • • • • • | 10 13 3 | H # E 0011 | 1,002 |
| LET. | Rate per 1,000 births. | · · · · · · · · · · · · · · · · · · · | 145 05 | 325 \$ 50 123 321 | 0.5 81 21 | 3.2 | 770 75 055 54 | 1.2 1.2 1.2 | 61 |
| HUNSLET. | Deaths. | := ? : : : : : | 1 : : 0 | to n : ∞ : 0 0 | + | ;• :• s | 13 14 10 | 13 4 4 | 1,861 |
| TH- | Rate per 1,000 births. | 35: 8 | 115 1.8 1.8 1.7 | 247 079 375 079 878 878 878 878 878 878 | 1.8 3.5 4.4 | : : | 23'0 13'3 1'8 | 53 | 32 1,861 1,00 |
| SOUTH- EAST. | Deaths. | : " " : : : * | тана ₉ 0 | 288 4 1 4 : : 1 1 0 : : 1 1 7 1 7 | a = 4 = 10 | ::*:* | 26 : 5 | . e | 1,132 |
| sr. | kate per 1,000 births. | 13::02::1 | 1.2 1.2 5.0 | 25.1 0'0 8'0 8'0 0'1 | 1.6 0.5 2.7 2.7 | \$: : \$ | 5'9 9'6 1'6 | 1'1 8'0 8'0 | |
| WEST. | Desths. | ::":":" | ũ 0.4 : 7 | 4:00 : *:35 | 0 H ; 5 5 | : • : : 2 | 18 : 58 | a 15 226 | 1,871 |
| гн. | Rate per 1,000 hirths. | : :: : : : : : : : : : : : : : : : : : : | 87 37 07 51 | 145 174 | 14 10 174 | 2.0 13.8 13.8 | 17.4 | 2.0 2.0 4.1 | |
| NORTH. | Deaths. | :: ** : : : : ** | 12 | 84:: 2:08 | 8 H : : H | : * H @ 0 | \$ \$? : m | 6 % C 001 | 1,381 |
| | CAUSES OF DEATH. | Radi-pox | HHOOG | المعامية Premature birth المعامية Congenital defects المعامة Want of breast milk المعامة Injury at birth المعامة Markton, mainutrition, privation Atrophy Debility Marasmus Debility | E a t Tuberculous meningitis | Erysipelas | Bronchitis | Suffocation, over-laying | Births, exclusive of those in public institutions |

Supplementary.

in workhouses as belonging to the district in which they occurred, these corrections (93 births and 7 deaths omitted) do not materially alter the death rate of children under one. If we ignore them, that is, count all the births registered in Leeds and all the deaths under one registered in Leeds, the rate is 122.7 If we make the alterations stated, which we do in order to compare, in tables 5b and 5c, the different parts of the town one with another, the death rate is 123.1, both of these figures being counted in our ordinary way as 123. The rate as already mentioned is very much lower than in any previous year.

Infantile mortality, 1905-9.—It has been already shown that the infantile mortality during the five years, 1905-9, is the lowest on our record. During these five years, at the suggestion of

TABLE 5 c.- 1909.

Infant mortality during the year (52 weeks ended January 1st, 1910). Excess or otherwise, compared with rate in whole city, of district rates at certain age periods.

| District. | Births in year. | Under 1 week. | Under 1 month. | 1 and under 3 months. | 3 and under 6 months. | 6 and under 9 months. | 9 and under 12 months. | Year. |
|--|-----------------|------------------|-------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|----------|
| North | 1,381 | - 35.8 % | - 28.0 % | + 16.6 % | + 35.7 % | + 13.6 % | +73.0 % | + 11.8 % |
| West | 1,871 | + 19.5 % | + 19.9 % | - 11.4 % | - 15.7 % | - 7.9% | - 21.5 % | - 1.9 % |
| South-East | 1,132 | + 6.4 % | + 4.4 % | + 17.1 % | + 39.1 % | + 38.7 % | + 46.6 % | + 24'I % |
| Hunslet | 1,861 | + 1.1 % | + 3.2 % | + 17.1 % | + 5.1 % | + 20.9 % | + 12.3 % | + 10.0 % |
| Holbeck | 1,002 | + 13.1 % | + 10.9 % | - 24.2 % | - 6.4 % | + 4.7 % | - 26.4 % | - 4'3% |
| Wortley | 1,345 | + 16.0 % | + 11.8 % | + 37 .4 % | + 4.3 % | - 18.3 % | - 22.7 % | + 5'7 % |
| Kirkstall | 944 | - 32.3 % | - 38.7 % | - 44'5 % | - 0.9 % | - 11.2 % | - 35.0 % | - 27.7 % |
| Bramley | 405 | +48.9 % | + 20'I % | - 53.1 % | - 57 .9 % | - 9.4 % | - 39.3 % | - 19'7 % |
| Chapeltown | 952 | - 18.1 % | - 7.6 % | - 15.2 % | - 50.6 % | - 56.0 % | - 28.8 % | - 27.5 % |
| Osmondthorpe | 16 | | | | | | | |
| City death rates per 1,000 births registered | 10,909* | 28.3 | 43.2 | 21.1 | 23.5 | 19.1 | 16.3 | 123.1 |

* Exclusive of 93 births in workhouses.

Infant mortality, 1905-9.

the Local Government Board, a special table has been compiled (table 5a) as already mentioned. It has been thought convenient, as the year at present under consideration (1909) is the last of the five, to prepare for these five years a table similar to table 5a, but dealing only with the figures in heavy type in those tables. During these years, 8,180 certified deaths have been registered, and 29 that were not certified, making 8,209 dealt with in the new table (table 5x). Of these 8,209 deaths, 2,605 were those of children less than four weeks old, that is 31.7 per cent. Of the remainder, 1,503 deaths were those of infants more than four weeks but less than three months old, that is 18.3 per cent. The total deaths under three months were, therefore, 50 per cent. of the whole infantile mortality. In other words, nearly a third of the deaths of children under one year occurred in the first four weeks of life, and just a little more than half in the first three months.

In the next age period of 3 months, including the deaths of children more than 3 and less than 6 months old, there were 1,650, or 20'I per cent., just practically one-fifth. At the age of 6 but under 9 months there were 1,354, or 161 per cent. of the total deaths of children under I year, while at the age of 9 months to 12 the deaths fell to 1,097, or 13'4 per cent. This matter was referred to in the report for 1906, when it was shown (page 18) that in the 2 years 1905 and 1906, 316 and 200 per cent. respectively of all the deaths under one occurred in the first 4 weeks of life, while 186 and 180 per cent. of the infantile deaths respectively, in 1905 and 1906 occurred between the 4th and 13th weeks of their lives. Between the ages of 3 and 6 months in 1905, the proportion was 201, as in the 5 years, and 21.4 in 1906. Between the ages of 6 and 9 months, whilst in the five years the proportion was 16.5 of all the deaths under one, in 1905 and 1906, the proportion was 16:4 in the former and 16:5 in the latter year. In the last 3 months of the child's first year in 1905, 13:4 per cent. and in 1906, 150 per cent. of all the deaths under one occurred, whilst as we have just seen the proportion like that in 1905

TABLE 5 x.

Infantile Mortality during the five years 1905-9. Deaths from stated causes in age periods

under one year of age.

| CAUSES OF DEATH. | Under four weeks. | One and under three months. | Three and under six months. | Six and under nine months. | Nine and under -twelve months. | Total under one year. |
|---|--|---|---|--|--|--|
| All causes {Certified Uncertified | 2,584 21 | 1,502 I | 1,649 1 | 1,352 2 | 1,093 4 | 8,180 29 |
| Small-pox Chicken-pox Measles Scarlet fever Diphtheria Membranous croup Other croup Whooping cough | I 8 | 7 2 51 | 8 1 54 | 3 4 85 | 73 2 10 2 66 | 1 7 139 6 16 4 264 |
| Diarrheea, all forms Enteritis (not tuberculous) Gastric and gastro-intestinal catarrh Gastro-enteritis | 39 21 9 3 13 | 235 45 16 15 35 | 408 55 13 14 67 | 280 35 3 7 23 | 171 19 2 6 18 | 1,133 175 43 45 150 |
| Premature birth Congenital defects Injury at birth Want of breast milk <i>Inanition, malnutrition, priva-</i> <i>tion</i> Atrophy | 1,106 247 80 3 196 2 236 | 98 57 4 67 10 69 | 15 16 2 31 5 29 | I 10 12 4 7 | I I 6 4 5 | 1,221 331 80 9 <i>306</i> 25 346 |
| (Marasmus) snortsee Tuberculous meningitis Tuberculous peritonitis } Hydrocephalus Other tuberculous diseases | 83 1 7 4 3 | 190 4 4 39 2 16 | 159 18 14 60 6 37 | 84 18 10 26 6 29 | 51 20 9 20 2 32 | 567 61 37 152 20 117 |
| Erysipelas Syphilis Rickets Meningitis (not tuberculous) Convulsions | 4 31 2 4 253 | 5 33 7 15 144 | 28 10 42 91 | 2 8 14 32 47 | 1 2 21 25 35 | 12 102 54 118 570 |
| Bronchitis Broncho-pneumonia Laryngitis Pneumonia | 50 <i>15</i> 5 | 138 70 3 18 | 165 <i>133</i> 1 35 | 152 180 4 61 | 127 <i>171</i> 2 56 | 632 <i>569</i> 10 175 |
| Suffocation, over-laying Dentition Other causes (exclusive of lines in italics) | 30 149 | 27 4 78 | 17 42 79 | 7 75 70 | 3 83 48 | 84 <i>304</i> 424 |
| Totals | 2,605 | 1,503 | 1,650 | 1,354 | 1,097 | 8,209 |

Increased percentage

Table of mortality amongst children under I year of age per 1,000 births in each of the five years, 1905-9, and in the whole period, with the percentage of the whole death rate at certain age periods.

| | 1905. | 1906. | 1907. | 1908. | 1909. | Five Years. |
|--------------------------------|-------|-------|-------|-------|-------|----------------|
| Death rate per 1,000 births | 152.1 | 152.3 | 131.4 | 138.6 | 123.1 | 139.9 |
| Percentage of above- | | | | | | |
| Under I week | 17.6 | 16.2 | 18.8 | 18.9 | 22.9 | 18.2 |
| Over 1 and under 2 weeks | 5.1 | 4'2 | 4.0 | 5'3 | 5'7 | 4.8 |
| 2 and under 3 weeks | 4.8 | 4'9 | 4'4 | 2.1 | 4'2 | 4.7 |
| 3 and under 4 weeks | 4.1 | 3.2 | 4'3 | 3.1 | 2.2 | 3.2 |
| All under 4 weeks | 31.6 | 29'0 | 31.2 | 32.4 | 35.1 | 31.7 |
| 4 to 13 weeks | 18.0 | 18.0 | 18.9 | 18.7 | 17.1 | 18.3 |
| 3 to 6 months | 20°I | 21.4 | 20'2 | 19.4 | 19.1 | 20°I |
| 6 to 9 months | 16.4 | 16.2 | 16.2 | 17.5 | 15.2 | 16.2 |
| 9 to 12 months | 13.4 | 15.0 | 12.9 | 12.0 | 13.3 | 13.4 |
| Under 12 months | 100.1 | 99.9 | 100.0 | 100.0 | 100.1 | 100.0 |

was 13'4 in the 5 years. It will be convenient perhaps to put these figures for each of the 5 years, and for the whole period in the form of a table, somewhat similar to the one on page 18, in the Annual Report for 1906; for convenience the deaths under one year, per 1,000 births, are also given.

It will be noticed at once that the years 1905 and 1906 had the highest infantile death rate of the five, 1909 the lowest, while in 1908 the rate was slightly higher than in 1907. In the year we are considering (1909), while the death rate as a whole was, as just said, the lowest, the percentage of children under one year of age who died in the first 4 weeks of life was the highest—higher than in any other year of the five, and

22

in early weeks of life.

considerably higher than the average of the five years. Taking the next period of nine weeks, the percentage of children at this age in the year of lowest infantile death rate (1909) was lower than in any of the other 4 years, and 1'2 below the average of the five. At the age period, from 3 to 6 months, in 1909, the percentage was again the lowest of any of the five years, although not very much lower than the percentage in 1908. At the 6 to 9 months' age period, the average percentage for the five years was 165, the percentage in 1909 was 15'5, nearly one per cent. below that of any of the other four years. In the fourth period (9 to 12 months), the average percentage for the five years was 13.4. It was the same in 1905. It was considerably lower, however, in 1908, the year in which the rate had slightly increased. The rate in 1909, in this case, comes third in the list, 1905 having a slightly larger, and 1906 an appreciably larger percentage of the total infantile mortality at this particular age period.

The meaning of these figures seems obvious. The saving of infant life during the three later years of the five has been most marked amongst children who have survived the first month. The age period at which the lessening of the rate was least marked, manifested therefore an increased proportion of the total infant mortality. But it will be asked, has the actual mortality rate in infants of less than a month old increased? During the five years, 44.4 deaths per 1,000 children born occurred in these earlier four weeks of life. How do the corresponding numbers for the individual years compare? This is best seen by referring to table 5y, prepared for this purpose.

In this table (5y) it will be noticed that the mortality per thousand born amongst the children who died within the first 4 weeks of life averaged 44.4. It was highest in 1905, 48.0, next highest 45.0 in 1908. It was nearest to the average in 1906, 44.2. It was lowest in 1907, 41.3, whilst in 1909, the year with the lowest infantile death rate, the rate in children under 4 weeks was second lowest of the 5 years, 43.2.

Cause of apparently

| | | 1905. | 1906. | 1907. | 1908. | 1909. | Five Years |
|----------|------|-------|-------|-------|-------|-------|---------------|
| 1st week | | 26.7 | 25.2 | 24.7 | 26.3 | 28.2 | 26.2 |
| 2nd week | | 7.8 | 6.3 | 5'3 | 7'3 | 7.0 | 6.7 |
| 3rd week | | 7'3 | 7.5 | 5.8 | 7 · I | 5.5 | 6.6 |
| 4th week | | 6.5 | 5.5 | 5.6 | 4.3 - | 2.8 | 4'9 |
| | | 48.0 | 44.2 | 41.3 | 45.0 | 43.2 | 44'4 |

TABLE 5y.Deaths per 1,000 born amongst children dying in first4 weeks of life.

If, however, we examine the several weeks of life given in table 5y, it will be noticed that in every case the first week of life contributed the greatest part of the mortality. The total deaths in the first week of life during the 5 years corresponding to a rate of 26'2 per thousand children born during the same period. The year, with the lowest rate in this week, was 1907, when it was 24'7. Then came 1906, 25'2; 1908, 26'3; 1905, 26'7—whilst the year with the lowest infantile mortality of all the five, 1909, had actually the highest death rate amongst children under one week, 28'2. It is probable in fact it had been predicted—that this apparent increase in death rate amongst newly born children in 1909 would result from the action of our department in regard to the certification of still births.

Certification of still births, a cause of apparent increase in death rate.—Since the enforcement of the Midwifes Act of 1902, it has been the duty of every certificated midwife to report to us every case of still birth in her practice (Rule 20 (I) (c)). Where a medical practitioner is not in attendance, enquiry has been made into every case of this kind. It seemed to us that in bygone days a certain elasticity had been given by midwifes to the term "still birth," and we had to enforce in its converse direction the opinion of the Central Midwifes' Board, that "a child is deemed to be still born, when after being completely born it has not breathed or shown any sign of life." Accordingly we have insisted that a child which had shown signs of life after birth was a live born child.

It had been the practice at the cemeteries to receive certificates from midwifes that a child was still born often without any enquiry. The cemetery authorities, however, and the coroner, as well as ourselves were all suspicious that a certain amount of irregularity existed. On one occasion, at our request the Coroner ordered an exhumation and an inquest upon the body of an infant alleged to have been still born, and gradually we have succeeded in making the midwives understand that the bodies of so called still born children are not to be so easily disposed of. Naturally, the consequence has been that a certain number of children, who although born alive would have been regarded as still born and buried without registration, have had to be registered, and it is probable that the apparent increase in the number of deaths in 1909 in the first week of life is to a considerable extent due to these additions to both the birth and death register.

Mortality of infants in districts, 1909 — In 5b (p. 18) the same groups of diseases are taken as in 5a, but the deaths under one in the several districts are collected, and a rate is calculated for each death cause for each district upon the number of births occurring in that district.

When we deal with table 5b we find, allowing for the corrections mentioned on page 16 and 19, that the death rate in districts varied from 152.8 in South-East Leeds, to 890 in Kirkstall and 893 in Chapeltown. The infantile death rate in South-East Leeds for the ten years 1895-1904 was 220 per 1,000 births. In 1905 it was 203, in 1906 it fell to 188, in the following year to 176, rose in 1908 to 203, but fell in 1909 to 153, the lowest rate in that district I have ever had to report to you. During the last five years the infant mortality in South-East Leeds has been 185, which although higher than most districts, is by far the lowest death rate in this district for any similar period to which I have access.

C

TABLE 5z.

Infantile Mortality during the five years 1905-9. Deaths from stated causes in each registration district, with rates per thousand births in the district.

| | | | | | and the second second | | | | | | |
|---|------------------------|---|--|--|---|--|--|-------------------------|--------------------------|---------|---|
| | City death- rate | under one year per 1,000 births. | 0.0 0.1 2.7 0.1 0.1 0.1 4.5 | 2.0 2.0 2.0 8.0 | 208 508 57 57 57 57 | 0.2 0.2 0.2 | 2.0 2.0 | 0.5 3'0 | 33 | 6.651 | 58,671 |
| | OSMOND- THORPE. | Rate per 1,000 births. | | 2/3 | 5.25 5.25 5.25 | ::::. | ::::: | :::: | ::: | 1.121 | 47 |
| | OSA | Deaths. | | :: | ••::::•: | ::::: | ::::: | : • : : | ::: | 9 | 4 |
| | CHAPEL- TOWN. | Rate per 1,000 births. | 32 0: 5 | 4.0 5.0 7.0 7.0 | 10:4 172 172 5'0 5'0 5'0 | 0.04 0.00 12 | 02 73 77 | 0.1 2.0 5.0 | 0.3 0.3 | 9.16 | 5,076 |
| | CHA | Deaths. | : : 9 : : : : ? 9 | 1 10 000 N | 31 31 35 35 33 35 | a a m : 0 | = 10 10 00 00 | 35 33 5 | 30 20 00 | 480 | 5,0 |
| | BRAMLEY. | Rate per births. | ::::::::::::::::::::::::::::::::::::::: | 57 178 070 074 | 23.5 0.4 0.7 0.7 | \$.0 \$.0 | 10,40 | 10.5 1.2 1.2 | 3.1 3.1 8.0 | 1.60 | 2,263 |
| | BRAJ | Desths. | . : • : : : • | 0 + 0 + 0 | 51 9 9 1 1 1 1 1 1 | : ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | : = 5 2 # | 23 10 3 | 1 1/00 | 225 | 2,2 |
| | KIRKSTALL. | Rate per 1,000 births. | 57: : : : : : : : : : : : : : : : : : : | 9.1 9.0 7.2 6.9 | 183 193 193 193 193 193 193 193 193 193 19 | 0.0 0.7 | 2.2 | 5'9 5'9 1'0 | 2.0 1.8 0.0 | 985 | 4,906 |
| | KIRK | Desths. | :: ** ::::** | 90m n n 09 | 90 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 5 × 5 3 | 3 5 2 2 | 31 39 | 14 9 34 | 483 | 4,5 |
| - | WORTLEY. | Rate per t,000 births. | ÷ : : : : : : : : : : : : : : : : : : : | 10'0 10'0 1'0 2'2 | 23.9 5.1 5.0 4.5 5.3 5.3 | 0.5 5.4 1.8 | 0.0 5.0 5.0 6.0 6.0 | 73 03 07 | 1.5 1.5 | 2.1.81 | 50 |
| | WORD | Deaths. | ::8::::3 | 121 12 2 17 | 181 39 77 15 34 40 | 400 14 00 41 | 70 I 3 | 5 3 5 8 | 33 33 | 1,040 | 7.579 |
| | HOLBECK. | Rate per 1,000 births. | | 1.2 8.0 7.0 8.61 | 22'0 22'0 2'1 7'0 7'0 8'5 | 13 53 53 | 0.2 170 775 | 7.6 12.8 3'5 | 3'9 8'0 | 6.941 | 5,150 |
| | HOLF | Desths. | ::12:0 ::2 | 102 18 2 14 11 | 118 32 33 33 11 11 118 118 118 118 118 118 118 | 7 1 12 21 | 39 13 39 | 30 00 18 18 | 4 20 41 | 741 | 5,1 |
| | LET. | Rate per 1,000 births. | 2:0 2:0 0:2 0:2 0:1 5:2 | 275 275 03 03 275 | 22'1 555 555 555 555 555 555 555 555 555 5 | 17 076 51 076 17 | 4.01 5.2 7.3 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 | 115 77 6'8 6'8 | 1'1 3'9 7'0 | 154.8 | 5 |
| | HUNSLET. | Deaths. | : 1 2 2 5 : 1 8 | 280 27 83 24 | 868 80 : 860 | 17 52 66 13 | 13 1 4 1 3 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 | 117 79 64 | 11 71 71 | 1,578 | 10,194 |
| | HH- | Rate per 1,000 births. | 203 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 28.8 33 25 22 278 | 22'0 5'8 5'8 7'3 8'3 8'3 8'3 10'1 | 50 80 80 80 80 80 80 80 80 80 80 80 80 80 | 0.2 2.8 1.8 12.8 | 21'5 17'1 2'5 | 2'0 | 185.5 | 38 |
| | SOUTH- EAST. | Deaths. | : * 5 = = : * 8 | 174 20 3 13 17 | 133 35 12 12 12 12 12 12 12 12 12 12 12 12 12 | 4 10 g re 0 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 130 103 .: | 12 27 29 | 1,118 | 6,038 |
| | WEST. | Rate per 1,000 births. | 100 100 100 3.0 3.0 | 153 153 155 303 303 | 217 277 277 277 277 277 277 277 277 277 | 17 000 100 05 25 | 20 13 03 03 03 | 3: 2 % | 37 | 9.587 | 29 |
| | W | Desths | ; = 00 10 4 ; ; 00 | 144 43 145 33 288 | 205 73 20 73 20 73 20 20 20 20 20 20 20 20 20 20 20 20 20 | 16 6 6 5 5 5 4 | 1 16 112 000 000 | 58 32 : 74 32 | 12 35 73 | 1,280 | 9,429 |
| | TH. | Rate per 1,000 births. | 0.1 0.1 2.5 2.5 2.5 | 28.8 3.1 0.0 45 | 10.8 3.8 171 3.8 3.5 8.3 8.3 8.3 14.3 | 0.0 0.3 0.3 | 0.3 2'0 2'3 12'8 | 13.0 12.0 12.0 | 1.8 | 157'5 | 6 |
| | NORTH. | Destbs. | 1 I 0 : + : : 5 | 230 25 36 | 134 30 30 30 30 30 30 30 30 30 30 30 30 30 | 10 10 * N 10 | 10 5 10 10 10 10 10 10 10 10 10 10 10 10 10 | 101 114 1 23 | 14 30 51 | 1,258 / | 7,989 |
| | | CAUSES OF DEATH. | Constant for the second | E (Diarrhea, all forms E (Enteritis (not tuberculous) | هو ز Congenital defects Premature birth هو ز Injury at birth Injury at birth هو ز Mant of breast milk Infurner هو ز Maniton, maintukrition, prima- tion Infurner Atophy Infurner Marasmus Marasmus | Tuberculous meningitis | Erysipelas | Bronchitis | Suffocation, over-laying | | Births, exclusive of those in public institutions |

Districts, 1905-9.

Infant mortality in districts, 1905-1909.—In table Z. the infantile mortality in each district from each group of causes has been separated for the five years, 1905-1909.

The total infantile mortality for these five years stood highest (185'2) in S.E. Leeds, although as already said, this rate was much lower than in any period of five years to the records of which we have access. The rate for the five years (185) as compared with that of the previous ten (220) is an improvement of 16 per cent., though, as we shall presently see, that improvement is exceeded in some of the other districts.

During these five years, Chapeltown had again the lowest death rate (94.6) of any of the districts. In the ten years preceding these five, the death rate in this district was at the rate of 120 per thousand. It was 111 in 1905, 85 in 1906, again 85 in 1907, it rose to 101 in 1908, and last year (1909) it was 89. The fall in the five years as compared with the ten preceding them was one of 21 per cent.

Next lowest to Chapeltown was Kirkstall, 98.5. The death rate for the ten years 1895-1904 was 139. In 1905 it was 119, in 1906, 99, in 1907, 81, in 1908, 100, and last year 84. The average being as already pointed out much lower than that of the previous ten years. The diminution is therefore for the last five years as compared with the previous ten, one of 29 per cent.

Next lowest to Kirkstall was Bramley, 99'4. The death rate for the ten years 1895-1904 was 146. In 1905 it was 102, in 1906, 95, in 1907, 127, in 1908, 76, and last year 99. The diminution is therefore for the last five years as compared with the previous ten, one of 32 per cent.

In Osmondthorpe, a very small district, the average for the ten years 1895-1904 was 195 deaths under one per thousand children born. In the five years 1905-1909 it was 128, a fall of 67 deaths per thousand, equivalent to an improvement, if it could be kept up, of 34 per cent. This is the highest improvement in any district. The numbers dealt with are, however, very small.

Calculated in the same way, Bramley and Kirkstall shewed as already said, improvements of 32 and 29 per cent. respectively. In West Leeds there was an apparent improvement of 24 per cent.; in Holbeck of 23 per cent.; in Wortley of 22 per cent.; in Chapeltown, as already said, of 21 per cent.; in Hunslet of 17 per cent., and in South-East Leeds of 16 per cent.

The improvement in North Leeds is only one of 9 per cent. This district, however, probably suffers from the fact that in the rate for the ten years, the births in the Workhouse Hospital have been taken into account. In the rate for the five they have been excluded. Consequently the rate of 158 is calculated upon a proportionately smaller number of births in those five years,—considerably smaller than had the Workhouse births been included. If the births and deaths in the Workhouse be included as in the ten years, 1895-1904, the death rate is 150⁻⁴, instead of 157⁻⁵, and the decrease of mortality from 174 to 150 is equivalent to 14 per cent. Even when this correction is made, the North district still shows the smallest diminution in the infant mortality.

Comparison of district mortalities.—The marked decrease of infant mortality during the past five years has been observed in other towns as well as in Leeds. From the preceding paragraph it will be seen that it has been very unequally distributed in different parts of the town, the fall having been specially well marked in Osmondthorpe 34, Bramley 32, Kirkstall 29, West Leeds 24, and Holbeck 23 per cent.

Disregarding Osmondthorpe, which is a district with a very small population, Bramley and Kirkstall, the two districts with the greatest improvement, were also, next to Chapeltown, the two districts with the lowest infant death rate in the decade

Fall in districts.

1895-1904. These three districts in the five years just passed had, all three, rates below 100. They were the only three which had. In the ten years 1895-1904 they all three had rates under 150, and they were the only three which had so low a death rate in those years. The improvement in Chapeltown was, however, only one of 21 per cent., about the average of the whole City. That district had the lowest death rate in the quinquennium, as well as the lowest in the decade.

The districts with the highest infant death rate in the five years were North, 158 (or corrected, 150), South-East Leeds, 185, Hunslet, 155, all with rates above 150. The proportionate diminution was respectively 9 (corrected, 14), 16 and 17 per cent.—in all three cases considerably less than the average improvement of the town, which was one of over 20 per cent.

The three remaining districts, West Leeds, Holbeck and Wortley, all showed a decrease in infant mortality greater than the average of the town. Two of them, West Leeds and Holbeck, had rates in the ten years of 180 and 188 respectively, whilst that of the City was 176. The rate in Wortley was the same as that in the City. In 1905-9 the rate in West Leeds was 4 per thousand below that of the City, in Holbeck 4 per thousand above, and in Wortley 3 per thousand below —the percentage improvement being in all three cases above the average of that of the City as a whole.

It is a little disappointing to find that the South-East district, though it had diminished its infantile death rate by 35 per thousand, had only decreased its rate of mortality by 16 per cent., notwithstanding the special efforts made to deal with that district. It is as has been frequently remarked the most difficult district to deal with. It is also the district that has shown the least tendency to diminish its birth rate.

The relation of infant mortality to birth rate.—It is a familiar axiom the higher the birth rate the greater the infantile mortality. At the close of an intercensal period the birth

Infantile mortality.

rate, calculated as it is upon the estimated population, may err greatly even in large towns, and the correctness of such error may be very largely increased in small districts.

There were three districts, North, South-East and Hunslet in which the diminution of the death rate calculated upon the births was less than the average of the City. Comparing that of the decade 1895-1904 with that of the five years 1905-9, these three districts had respectively a drop in the birth rate of 22.2, 1.7 and 20.7 per cent.—the average drop in the birth rate in the City being 17.1 per cent. in the five years as compared with the previous ten.

There were three districts in which the infantile death rate of the last five years was under 100, Kirkstall, Bramley and Chapeltown. In these, the diminution in the infantile death rate in these five as compared with the ten years had been 29, 32 and 21 per cent. The diminution in the birth rate in these three in the same order was 240, 137 and 103 per cent.

The three districts, West, Holbeck and Wortley, had each a diminution in the infantile mortality a little above the average of the City. The diminutions in their estimated birth rates were 130, 148 and 229 per cent. respectively.

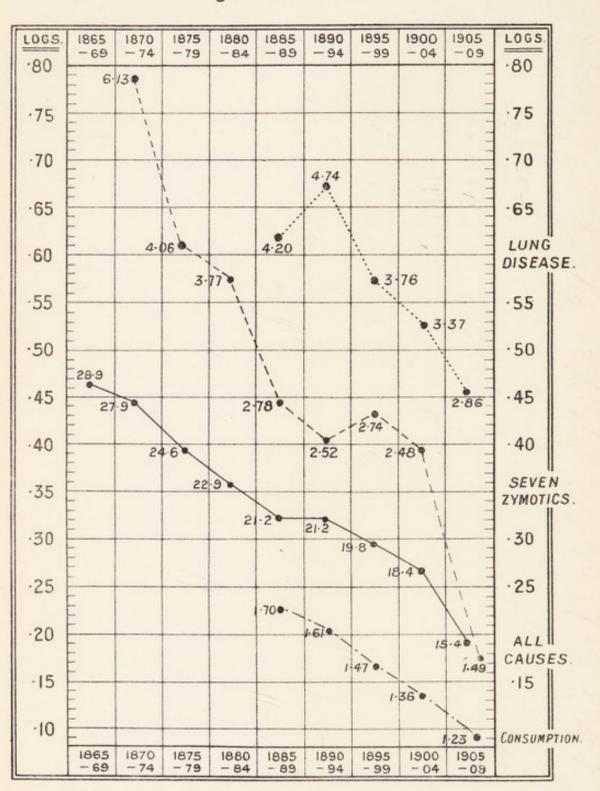
The remaining district, Osmondthorpe, had a calculated increase of 36.7 per cent. in its birth rate. Its mortality had shown the higher drop of any of the ten districts.

It is evident that much stress cannot be laid upon these particular calculations, and we must wait until the next census before we draw any conclusions.

District mortality under one week.—Table 5c states for 1909 the percentage by which each district exceeded, or otherwise, the mortality of the whole City at each age group. We have not made out a special table for the whole five years, but it might be interesting to state here that in the North district the mortality in the first week of life per 1,000 births, averaged in the five years 12 per cent. less than that



QUINQUENNIAL DEATH RATES.



Logarithmic curves.

The figures down the sides of the chart are the two first figures of the mantissal portions of the logarithms of the death rates. The characteristic of the logs: for the rates in Curves I, 2 and 4 is in every case o. For Curve 3, it is I. Curve 1 represents the death rate from lung diseases other than consumption. Curve 2 from the seven zymotic diseases, Curve 3, the general death rate from all causes, and Curve 4, that from consumption. The figures in the body of the chart, show the actual rates per 1,000 of the population.

Special diseases.

of the whole City. In West Leeds the average percentage was II above that of the City. In South-East Leeds the deaths in the first week exceeded those in the City by 18 per cent. in the five years (1905-9).

In Hunslet the average was very nearly that of the City, the figures being just over I per cent. below the City rate, whilst Holbeck had a rate of mortality during the first week of life six per cent. below the average of the City. The Wortley rate on the other hand, was slightly under 3 per cent. above the average of the City, and Kirkstall nearly 10 per cent. below. Bramley was 5 per cent. above and Chapeltown 12 per cent. below. Osmondthorpe we omit, partly on account of the smallness of the district and the difficulty of arriving at an average.

It will be noticed that South-East Leeds had in the first week of life the highest death rate per 1,000 births. This is the district to which the special energies of our women inspectors have been directed now for several years, and the saving of life by their efforts has been apparently greatest amongst the children who survived the first week of life. The Committee are aware that our information as to births in this district is obtained from the Registrar, and is on an average seven weeks old before it reaches us. We cannot, therefore, use as much influence during the early days after birth as if the information were sent us within twenty-four hours of that event. This is a matter on which, perhaps, in another report I may have something more to say.

SPECIAL DISEASES.

It is not proposed to deal in great detail in this report with special diseases. The general prevalence of zymotic disease has been already referred to in the report proper and details will be found in the tables later. There is, however, one disease on which it is proposed to say something and that is:—

Special diseases.

TUBERCULOSIS.

As usual, we deal with tuberculosis as the first and most important of the special diseases. This has been done in every annual report presented to you since I came to Leeds.

Tuberculosis, general and undefined. Tuberculous meningitis. Tuberculous peritonitis. mesenterica Hydro-cephalus. Phthisis. Tabes Scrofula 1909. TOTAL I. Quarter 171 10 20 4 13 5 223 ... II. 18 do. ... 143 13 9 219 33 3 III. 186 do. ... 108 25 I 22 13 17 ... IV. 16 16 do. ... 126 6 194 27 3 ... Vear (52 weeks) ... 52 822 69 105 548 II 37 ... Annual deathrate, 52 weeks 0.08 of 1909 1'14 0'02 0'14 0'11 1'70 0'22 . . .

Mortality from tuberculosis, 1909.

TABLE 6.

In the fifty-two weeks, making up the year 1909, 822 deaths were ascribed to tuberculosis and of these 548 were due to what is ordinarily called "consumption." The 822 is the smallest total from tuberculosis of any year on which I have had to report to you with the exception of 1892, when the deaths registered from these causes were 809. The year in each case was one of fifty-two weeks, but as the population was increasing, the death rate calculated upon the estimated number of persons living was equivalent to 170 in 1909 and 2.16 in 1892. The latter

TABLE 6a.

Shewing deaths from each of certain groups of tuberculous diseases in the 52 or 53 week periods of the years 1890-1909, and the populations of those years estimated from the changing ratios of the 1881-91, and 1891-1901 intercensal periods.

| YEAR. | Population by interpolation. | General or undefined. | Phthisis. | Hydro- cephalus. | Tuberculous meningitis. | Tuberculous peritonitis. | Tabes mesenterica. | Scrofula. | Total. |
|-------|------------------------------------|--------------------------|-----------|---------------------|----------------------------|-----------------------------|-----------------------|-----------|--------|
| 1890* | 363,018 | 92 | 612 | 20 | 92 | 14 | 92 | 6 | 928 |
| 1891 | 369,034 | 84 | 657 | 18 | 72 | 25 | 102 | 9 | 967 |
| 1892 | 375,081 | 84 | 530 | 14 | 65 | 14 | 93 | 9 | 809 |
| 1893 | 381,157 | 99 | 648 | 17 | 67 | 32 | 86 | I 2 | 961 |
| 1894 | 387,259 | 79 | 576 | 9 | 72 | 18 | 61 | 13 | 828 |
| 1895 | 393,387 | 114 | 611 | 16 | 77 | 15 | 90 | 2 | 925 |
| 1896* | 399,535 | 66 | 613 | 15 | 74 | 22 | 73 | 10 | 873 |
| 1897 | 405,716 | 102 | 589 | 14 | 91 | 36 | 99 | 2 | 933 |
| 1898 | 411,895 | 96 | 576 | 17 | 73 | 26 | 98 | 3 | 889 |
| 1899 | 418,101 | 86 | 596 | 9 | 102 | 33 | 80 | I | 907 |
| 1900 | 424,322 | 101 | 605 | 12 | 94 | 48 | 87 | I | 948 |
| 1901 | 430,555 | 107 | 605 | 7 | 75 | 46 | 136 | | 976 |
| 1902* | 436,800 | 109 | 584 | 4 | 100 | 36 | 80 | 3 | 916 |
| 1903 | 443,052 | 100 | 562 | 8 | 106 | 37 | 82 | I | 896 |
| 1904 | 449,311 | 137 | 626 | 8 | 88 | 43 | 93 | | 995 |
| 1905 | 455,573 | 106 | 558 | 10 | 85 | 39 | 48 | | 846 |
| 1906 | 461,837 | 113 | 570 | 10 | 82 | 43 | 58 | 3 | 879 |
| 1907 | 468,101 | 95 | 605 | 13 | 82 | 35 | 24 | | 854 |
| 1908* | 474,361 | 115 | 621 | 13 | 71 | 60 | 42 | | 922 |
| 1909 | 480,616 | 105 | 548 | ΙI | 69 | 37 | 52 | | 822 |

* 1890, 1896, 1902, and 1908 were 53 week years, the others 52.

TABLE 6 b.

| YEAR. | General or undefined. | Phthisis. | Hydro- cephalus. | Tuberculous meningitis. | Tuberculous peritonitis. | Tabes mesenterica. | Scrofula. | Total. | | |
|----------------|--------------------------|-----------|---------------------|----------------------------|-----------------------------|-----------------------|-----------|--------|--|--|
| 1890* | ·25 | 1.66 | :*05 | .25 | .04 | .25 | ·02 | 2.22 | | |
| 1891 | ·23 | 1'79 | .02 | .20 | .02 | ·28 | ·02 | 2.63 | | |
| 1892 | ·22 | 1'42 | .04 | .12 | .04 | .5 | :02 | 2.16 | | |
| 1893 | .50 | 1'71 | .04 | .18 | ·08 | ·23 | .03 | 2.23 | | |
| 1894 | .30 | 1.49 | ·02 | .19 | .02 | .19 | .03 | 2.12 | | |
| 1895 | ·29 | 1.26 | .04 | .20 | .04 | ·23 | .01 | 2.36 | | |
| 1891 1895) | ·24 | 1.29 | ·04 | .19 | ·05 | .53 | ·02 | 2.32 | | |
| 1896* | .19 | 1.21 | ·04 | .18 | .02 | .18 | ·02 | 2.12 | | |
| 1897 | ·25 | 1.46 | .03 | .53 | .09 | ·24 | .00 | 2.31 | | |
| 1898 | ·23 | 1'40 | ·04 | .18 | .06 | '24 | .01 | 2'17 | | |
| 1899 | ·21 | 1.43 | ·02 | .54 | ·08 | .19 | .00 | 2.18 | | |
| 1900 | ·24 | 1.43 | .03 | ·22 | 11. | ·2 I | .00 | 2'24 | | |
| 1896) 1900) | •2.2 | 1.42 | .03 | '2 I | ·08 | '2 I | .01 | 2'21 | | |
| 1901 | .25 | 1'41 | ·02 | .12 | .11 | .32 | | 2.22 | | |
| 1902* | .25 | 1.31 | .01 | .23 | ·08 | .18 | .01 | 2.06 | | |
| 1903 | .23 | 1'27 | '02 | .24 | ·08 | .19 | .00 | 2.03 | | |
| 1904 | .31 | 1.40 | ·02 | .20 | .10 | '2 I | | 2'22 | | |
| 1905 | .53 | 1.53 | °02 | .19 | .09 | .11 | | 1.86 | | |
| 1901 1905 | •25 | 1.35 | ·02 | .20 | .09 | .20 | .00 | 2.09 | | |
| 1906 | .24 | 1.53 | ·02 | .18 | .09 | .13 | .01 | 1.90 | | |
| 1907 | .50 | 1.50 | .03 | .12 | .07 | ·05 | | 1.82 | | |
| 1908* | .54 | 1.58 | .03 | .12 | ·I 2 | .09 | | 1.90 | | |
| 1909 | 4. | 1.14 | ·02 | .14 | .08 | .11 | | 1.20 | | |

Shewing deaths from different forms of tuberculosis since 1890 per 1,000 of the population.

* 1890, 1896, 1902, and 1908 were 53 week years, the others 52. The death rates in each case are calculated on a year containing 52'17747 weeks. The rates for 1909 are calculated on a population of 484,012 in this table, as in the report generally, if calculated upon the interpolation population given in table 6a the total death rate from the whole group becomes 1'72 instead of 1'70.

34

figure is pretty nearly accurate, having been calculated with the aid of the figures for the 1891 and 1901 censuses. The figure for 1909 has the disadvantages already pointed out. (See also last part of note to table 6 b.)

In 1892 the 809 deaths from tuberculosis included 530 from consumption and 279 from other tuberculous diseases. The 822 deaths last year included 548 from consumption and 274 from other tuberculous diseases. The 548 deaths from consumption last year were equivalent to a rate of 1°14 per thousand of the estimated population, whilst the 530 in 1892 gave a rate of 1°42 per thousand. The deaths from tuberculous diseases other than consumption were 0°56 per thousand in 1909 and 0°74 in 1902.

Instead, however, of taking a single year, if we compute the death rate on the Registrar General's population for the four years, 1906-9, we find it comes to 1.83 from all forms of tubeculosis and 1.24 from consumption, the difference (0.59) being due to tuberculous diseases other than consumption. If we compare these figures with those for the five years immediately preceding, the rate from the whole group is 2.09, that from consumption only, 1.32. Compared with the preceding quinquennium, 1896-1900, the figures are respectively 2.21 and 1.45, whilst for the five years 1891-95, all tuberculous diseases caused 2.37, consumption alone, 1.59. The year 1890 has been kept by itself, but the corresponding figures were 2.52 from the whole group and 1.66 from phthisis alone.

Though these figures are contained or implied in table 6 b, they may be conveniently separated here. The figures following the death rate show both for consumption and other tuberculous diseases the proportion which the death rates in the later periods bear to those for 1890 taken as 100.

Special diseases.

TABLE 6 c.

Table showing deaths from phthisis at all and at certain ages, and death rates at all ages in the intercepts of the wards and townships of Leeds in the year 1909 (52 weeks).

| | | | | Age. | | | Deaths |
|--------------------------|---|--|---------------------|---------------------|------------------|----------------------|------------------------------|
| | | | -25. | 25-50. | 50+. | TOTAL. | per 1,000. |
| HOLBECK | Holbeck West Hunslet | | 8 | 16 2 | 2 I | 26 8 | 0.78 2.08 |
| HUNSLET | West Hunslet East Hunslet South | | 11 11 2 | 12 22 10 | 4 6 1 | 27 39 13 | 0.90 0.97 1.40 |
| South-East Leeds | South Central East | } 0.82{ | I 16 | I I 27 | 1 8 | 2 2 51 | 0.20 2.23 1.68 |
| OSMONDTHORPE | East | }1.04 | | | | | |
| CHAPELTOWN (pr.rt of) | North-East North $Chap. \cdot A$ Pottern' | ul. } | 6 1 7 | 5 1 11 | 1 1 4 | 12 3 *22 | 1.07 0.53 0.87 |
| NORTH LEEDS | North North-East Central Central in West | ··· ··· ··· ··· ··· ··· ··· ··· ··· ·· | 38 3 | 13 21 10 | 4 9 8 | 20 38 21 | 1.11 1.72 1.14 |
| Wortley | New Wortley {Armley Wortley Farnley |)) 0.62{ | 8 7 3 | 16 12 3 1 | 4 4 1 | 28 23 7 I | 1.53 0.66 0.71 0.20 |
| BRAMLEY | Bramley | | 4 | ю | 3 | 17 | 0.87 |
| KIRKSTALL | Kirkstall Burley Headingley | }0.93 | 5 9 1 | 1 19 3 | 7 3 | 6 35 7 | 1.30 1.08 0.48 |
| CHAPELTOWN (part of) | Headingley North-West Brunswick | }1.62 | I I | 2 3 | | 3 | 2°10 1°49 |
| West | Brunswick North-West Mill Hill West | | 10 10 2 13 | 14 16 9 24 | 5 9 4 8 | 29 35 15 45 | 1'47 0'98 2'29 1'92 |
| Сіту | | | 156 | 285 | 99 | 540 | 1.15 |
| | Outsiders | | 2 | 5 | 1 | 8 | |

West Hunslet in Holbeck more probably 1'11, and North-East in Chapeltown 0'85.

| and entering | Const | UMPTION. | OTHER TUBERCULOUS DISEASES. | | |
|-----------------------|----------------|--------------------------|--------------------------------|-------------------------|--|
| | Death rate. | Proportionate figure. | Death rate. | Proportionat figure. | |
| 1890 (year) | 1.66 | 100 | o [.] 86 | 100 | |
| Five years, 1891-1895 | 1.29 | 96 | .78 | 91 | |
| ,, 1896-1900 | 1.42 | 87 | .76 | 88 | |
| ,, 1901-1905 | 1.35 | 80 | .77 | 90 | |
| Four years, 1906-1909 | 1'24 | 75 | .59 | 69 | |

Mortality from consumption and other tuberculous diseases.

The figures in the last line are provisional. If, instead of the population as estimated by the Registrar-General printed in table D, part 2, in the Appendix, they had been calculated on the population given in the second column of table 6a, they would have stood in order 1'24, 75%, '60, 70%, the difference being negligable.

It will be seen, therefore, there has been a steady decrease in the death rate from tuberculosis, slightly accentuated during the last four years. A reference to the chart opposite page 31 illustrates this. That chart, however, deals only with consumption, and the five year periods are not quite the same as those just enumerated. The numbers dealt with in that chart are as follows :—

| _ | | | | | | | | Proportionate Number. |
|------|--------|----------|-------|------|------|--------------|------|--------------------------|
| Five | years, | 1885-89, | death | rate | from | consumption, | 1.20 | 100 |
| | >> | 1890-94 | , | , | ,, | " | 1.61 | 95 |
| | ,, | 1895-99 | , | 3 | ,, | ,, | 1.47 | 86 |
| | " | 1900-04 | , | , | " | " | 1.30 | 80 |
| | ,, | 1905-09 | , | , | " | " | 1.53 | 72 |

In the chart, however, where the numbers just stated are given, their distance in vertical measurement is indicated by the logarithms of the numbers given and not by the numbers themselves. The proportionate decrease in mortality will be also seen by examining the proportions the death rate in the later periods bear to the rate for 1885-9 taken as 100.

Special diseases.

TABLE 6 d.

Table showing deaths from phthisis at all and at certain ages, and death rates at all ages in the intercepts of the wards and townships of Leeds in the five years 1905-1909.

| | | | | Age. | | T | Deaths |
|-------------------------|---|---|----------------------|-----------------------|----------------------|-------------------------|------------------------------|
| | | | -25. | 25-50. | 50+. | TOTAL. | per 1,000. |
| Holbeck | Holbeck West Hunslet | | 64 14 | 89 19 | 24 7 | 177 40 | 1.11 5.11 |
| HUNSLET | West Hunslet East Hunslet South | | 51 53 11 | 71 83 35 | 18 32 10 | 140 168 56 | 0.96 0.87 1.18 |
| South-East Leeds | South Central East |) 2·96{ | 7 4 71 | 25 15 130 | 16 11 53 | 48 30 254 | 2·26 5·90 1·70 |
| Osmondthorpe | East | 1.1 | I | I | | 2 | 1.12 |
| CHAPELTOWN (part of) | North-East North } Chap. • A Pottern't | $\begin{cases} 1.56\\ \text{in} \end{cases} 0.76 \end{cases}$ | 23 5 25 | 47 12 48 | 9 2 18 | 79 19 91 | 1.27 0.70 0.78 |
| NORTH LEEDS | North North-East Central Central in West | ···· ··· } 1.77{ | 37 48 23 | 63 115 85 3 | 23 57 56 | 123 220 164 3 | 1.38 1.97 1.76 3.05 |
| WORTLEY | New Wortley {Armley Wortley Farnley |) o·82{ | 40 45 11 6 | 55 66 22 5 | 15 20 11 5 | 110 131 44 16 | 1.19 0.79 0.92 0.66 |
| BRAMLEY | Bramley | | 32 | 57 | 20 | 109 | 1.12 |
| KIRKSTALL | Kirkstall Burley Headingley | }0.01 | 9 42 8 | 11 87 24 | 5 31 6 | 25 160 38 | 1.11 1.04 0.24 |
| CHAPELTOWN (part of) | Headingley North-West Brunswick | }1.08 | 1 3 | 6 11 | 2 2 | 9 16 | 1.30 1.00 |
| West | Brunswick North-West Mill Hill West | ··· ·· | 35 54 17 53 | 68 88 34 104 | 28 44 12 66 | 131 186 63 223 | 1.31 1.07 1.84 1.89 |
| Сіту | | | 793 | 1479 | 603 | 2875 | 1.55 |
| | Outsiders | | 9 | 16 | 2 | 27 | |

The rates are calculated on populations estimated by the Registrar General's method described

Probably those for West Hunslet in Holbeck, for Osmondthorpe and for North-East in Chapeltown, are more nearly 1'19, 0'75 and 1'21 respectively.

Tuberculous diseases not phthisis.-There is considerable difference of opinion amongst medical men as to the exact differentiation of some of the "other tuberculous diseases," and there has been a tendency on the whole of late years to accumulate larger numbers of them under the undefined group which was intended in table No. 6 at first to deal only with generalized tuberculosis. This tendency would tend slightly to diminish the number of deaths from consumption in proportion to the whole group, but in tabulating it has been our habit to put under the head of consumption all diseases where the lungs were principally affected. If, for instance, the cause of death is certified as due to "general tuberculosis of the lungs," it is put down to group "phthisis" not to group "general and undefined." It will be noticed that the death rate from tabes mesenterica has somewhat steadily diminished whilst the group, "scrofula," has almost entirely died out. On the other hand the group headed tuberculous peritonitis has been slightly on the increase, whereas hydrocephalus and tubercular meningitis together have slightly decreased.

Phthisis mortality in intercepts.—In table 6c the deaths are given in the age groups "under 25," "25 to 50," and "50 upwards" for the intercepts of wards and townships, and in table 6d similar figures have been collected for the five years 1905-9, and the total deaths in each of these intercepts have been given. As the population in each case is uncertain the value of such figures is at present very little. For the time being we have given in the last column a provisional death-rate per thousand of the population. To these particular rates one cannot assign very much importance. At the present time they vary, it will be seen in table 6d for the quinquennium, from 0.54 in Headingley and 0.66 in Farnley, to 5.90 in the portion of the Central Ward south of Lowerhead Row, and the East part of Kirkgate.

Whilst we have allowed a considerable amount for the increase of the population of Headingley and Farnley, it is possible we may have over estimated that increase. On the

Phthisis mortality

other hand, we may have more than sufficiently allowed for the decrease of population taking place in the portion of the Central Ward in S.E. Leeds.

The dead reckoning .- In Farnley, the deaths in 1890-1894 from consumption were 15, and the rate, which was probably fairly accurate, calculated after the 1901 census, from the result of that census and the two preceding it, was estimated as 0.82. In the next five years there were 23 deaths, and although the population was increasing, this was equivalent on the population estimated from the same data after the 1901 census to a rate of 1'13, an increase in the death-rate of 39 per cent. In the following five years, 1900-1904, Farnley deaths were 21, and as the population was supposed to be going on increasing, a population calculated after the method adopted by the Registrar General would give a death-rate in Farnley of 0'94. On the hypothesis that the population of Farnley has increased, by arithmetical progression at the rate of increase prevailing in the inter-censal period, 1891-1901, and that the population so increased had then to be multiplied by the Registrar General's factor, the death rate in the five years 1905-1909 would be as already stated, one of 0.66. The deaths in the period were 16. The numbers, however, are far too small for any very great value to be attached to the death rate even if the population could be fairly accurately estimated.

In the portion of Central Ward in the South-East Leeds, the deaths in the five years 1890-1894 were 14. In the following quinquennium they were 31. In 1900-1904 they were 35; whereas in the lustrum 1905-1909 they were 30. For reasons given in the report for 1899, it was thought better to group the portion of the South Ward in South-East Leeds (that is the portion of the sub-district on the south side of the river) with the adjacent portion of the Central Ward. The estimated death rate for this combined district in 1890-1894 was 2.30 rising to 2.72 in 1895-1899 an increase of 19 per cent. In 1900-1904, with 99 deaths, the rate was estimated at 3.21, and

in intercepts.

in 1905-1909 at 296. These figures are a little larger than those in Farnley, and the population on which they are calculated is also a little larger, but it has been estimated in regard to this portion of the South-East district that the population has been steadily declining, and the populations on which these rates have been estimated during the present century have been obtained by diminishing the population by arithmetical progression at the rate at which it had diminished between 1891 and 1901, and again multiplying the result by the Registrar General's factor. These two figures show how very little regard can, in the meantime, be paid to the rates in these smaller districts, but the actual numbers which are not affected by this uncertainty are registered, and we leave them on record in order that when the census is taken next year the rates may be re-calculated with more accuracy.

Want of an "intermediate" census.—Had we had an inter-censal enumeration in 1906 the rates might have been of some value. In three of the intercepts given in table 6 d, the results have been so unexpected in this table and that for previous years, that they have been re-calculated. For instance, in the portion of West Hunslet in the Holbeck registration area which comprises the greater part of Beeston, the death rate from phthisis in table 6 d is 2.11. From the enumeration of the inhabited houses in this portion of the district which is rapidly increasing, I am inclined to estimate it at 1.19 for the five years.

When the death-rates for 1890-1894 and 1895-1899 were re-calculated after the 1901 census, the rates for this small area came out at 1°17 and 0.85 a diminution of 28 per cent. Calculating the increase of this portion of West Hunslet by the method of the Registrar General for the years 1900-1904, the rate came out at 0.88 and was not probably very greatly in error. An increase from rates of 1°17, 0.85, 0.88 to one of 2°11 seems exceedingly improbable along with a steady decrease in the total death rate of the borough from phthisis. Accordingly, we have on two or three occasions within the last

D

| YEAR. | DEATHS FROM PHTHISIS. | CASES REPORTED. |
|-------|-----------------------|-----------------|
| 1902* | 584 | 452 |
| 1903 | 562 | 586 |
| 1904 | 626 | 631 |
| 1905 | 558 | 555 |
| 1906 | 570 | 720 |
| 1907 | 605 | 563 |
| 1908* | 621 | 592 |
| 1909† | 548 | 934 |

Deaths from Phthisis and cases reported voluntarily 1902-1909.

* 53 week years, others 52.

+ Includes compulsory notification of Poor Law cases. Duplicate notifications as far as possible left out.

TABLE 7.

Deaths from lung diseases, grouped according to nature of disease, and under age groups used for phthisis in certain tables.

| | 1909 | | -25. | 25-50. | 50 + | TOTALS | | |
|------------|----------|-------|---------|--------|-------------|--------|-----|-------|
| Phthisis | | | | | 158 | 290 | 100 | 548 |
| Bronchitis | | | | | 175 | 54 | 425 | 655 |
| Broncho-pn | eumonia | | | | 237 | IO | 41 | 288 |
| Pneumonia | and pleu | ro-pn | eumonia | | 106 | III | 113 | 330 |
| Pleurisy | | | | | I | 5 | I 2 | 18 |
| Other lung | diseases | | | | 31 | 13 | 47 | 91 |
| Totals | | | | | 709 | 483 | 738 | 1,930 |

Preventive measures.

five years, estimated the number of houses, and from this estimate we are inclined to revise the estimate for 1905-1909 in the manner already spoken of.

Notification of phthisis .- It will be noticed in the table on page 42 that there has been a sudden increase in the number of cases of phthisis reported. This is due, as will be seen from the note to that table, to the new compulsory notification by the Officers of the Poor Law. It is difficult to say whether any great advantage has accrued to us from this compulsory reporting of these cases by relieving officers and the district medical officers. It has certainly increased our work, though the reporting of new addresses has been of service to us. Most of the cases reported however by the Poor Law Officers are advanced ones. Many have of course been already reported to us privately, and others by the Society for Prevention of Tuberculosis. Those reported from the Poor Law are naturally those which least can be done to cure, and it is to be hoped that the time is coming when a more general notification of early cases will be brought about. We have as far as possible only tabulated first notifications.

The Association for Prevention and Cure of Tuberculosis.— The Corporation continue to subscribe to the funds of this Society under the powers given them in the 131st section of the Public Health Act, 1875. The Society treated 125 patients at Gateforth in 1909, as against 84 the previous year, and the average number of days spent by patients in the sanatorium was 83 as against 89 This is essentially a curative hospital, but it is obvious that numbers are insignificant as compared with some 900 fresh cases reported during the course of the year.

Fortunately the curative treatment at Gateforth is supplemented by the treatment of a still larger number of cases at Armley House, within the City itself. The numbers were 207 last year, against 174 the previous one, and the average number of days spent in hospital 73 against 75. From this hospital

Prevention of tuberculosis.

52 slighter cases were transferred to Gateforth, and are included in the 125 treated there. There were 37 deaths amongst the advanced cases as against 20 the previous year at Armley. Thus 280 cases, not all of Leeds persons, were admitted for treatment on account of phthisis. This is without taking into account any cases sent to the General Infirmary for that purpose, but the number is far smaller than the requirements of the town demand.

A valuable addition to the work of the Society consisted in the appointment of a nurse to visit the homes of the patients whose names are on the books of the Association.

Other preventive work in the town.—In the same way a certain amount of good has been done by the visits of the almoner employed by the medical charities, but if much work is to be accomplished of a specially preventative kind, an increased number of our own inspectors will be necessary.

Since the introduction of notification it has been our practice to require the several ward inspectors to visit the houses at which cases of consumption have been reported. This matter was referred to in my report for 1905, and a copy of the instructions issued to the inspectors in visiting these houses printed on page 36 of that report. It has not been necessary to make any great alterations in those instructions, which were issued originally in 1901, but it has been felt desirable to consider the question of appointing one of our more able inspectors to devote his whole time to the visiting of these houses and their inmates, and this experiment is being tried at the present time. It means, however, taking a man away from ordinary ward inspection, which is already sufficiently behind.

Examination of milk supply since 1899.—A great effort is being made to lessen the amount of tuberculous milk sold in Leeds. In 1899 we commenced the examination of all the cattle in all the cow-sheds in the City for the purpose of detecting such of them as were suffering from tubercle of the udder. In that year we obtained special powers to deal with tuberculous

44

The milk supply.

milk. These, however, were less than we asked for, owing to the opposition of the West Riding County Council. In 1901 we obtained the full model clauses.

At first our endeavour was to deal chiefly with our own dairies by a veterinary examination of the cattle. This has been continued and made more thorough. In the report for 1908 a good deal was said about the difficulties of this examination. As even our model clauses did not enable us to visit farms outside Leeds simply on the ground that they supplied milk within the City, we have had with regard to this outside milk to rely chiefly on biological examinations of samples after it reached the town.

Inspection of cows, 1909 .- During 1909 (table VIII a) the veterinary assistant to the Medical Officer of Health made 549 visits to cowsheds within the City, and examined 7,093 cows Of these 549 visits, 26 were made for the examination of special cows already examined, and usually only of one cow. Six others were made for the purpose of testing cattle with tuberculin. Deducting these '32 special visits, and the 86 cows examined at them, the ordinary domiciliary visits are reduced to 517, and the cattle examined to 7,007. In most cases the same cowshed was visited something like four times in the vear. These 7,007 examinations of cows not previously suspected revealed 25 cases of udder disease. Of these, 6 were cases apparently of non-tuberculous mastitis, two of them, however, having been revisited. Six others were cases where Mr. Dixon had no hesitation in saving that the udder condition was of a tuberculous nature, while in 13 cases the udder was suspiciously so. In 5 of the 13 the diagnosis of tubercle was confirmed on subsequent inspection. In 4 cases the udder disease cleared up, while in 4 others the animal was removed between our inspector's visits, and no sufficient opportunity afforded of further verifying the preliminary diagnosis. The remaining case, inspected on the 5th January, where the udder was found tuberculous, was

The milk supply

one that had been seen on the 24th December last year, and suspected at that time of being tuberculous. The examination on January 5th confirmed the opinion that the udder was tuberculous. Regarding the four cases that were removed between our inspector's visits as positively tuberculous, there were, therefore, 15 out of the 25 new cases of udder disease which must be regarded as tuberculous. This, calculated upon the 7,007 routine examinations of cows not yet suspected, suggests that tubercle of the udder existed in just over 0.2 per cent. of the cows examined. Four other cows were found to be tuberculous, although the udder was not obviously affected.

Tubercle in milk from outside farms.—Our examination of cattle at outside farms was in nearly every case due to the fact that we had already detected tubercle in the milk supply. Samples to the number of 165 were obtained from 106 different milk farmers, 100 outside and six inside the City. Of these 165, 134 might be looked upon as "original samples," that is samples taken as part of a systematic investigation, and not because we already suspected tubercle in that milk supply; 29 were control samples, chiefly cases where we had previously found tubercle at the farm and were anxious to know if the infected cattle had been got rid of; whilst two were special samples taken from individual cows, also of the nature of a control.

Of the 134 original samples, 22 were declared tuberculous, 109 not tuberculous, while the examination in three was incomplete. The 22 original samples in which the result was positive came from 18 different farms, I within, 17 outside, the City. The 17 farms from which the 21 contaminated samples were obtained represent 17 per cent. of the outside farms whose milk was sampled. Visits to the number of 106 were paid to outside farms from which tuberculous milk came. Four farms were visited on account of information already given in the 1908 table, and 24 on account of information contained in table VIII b. in the present report, 28 farms in all. At these farms 677 cows were examined, but as some of them were examined more than once the examinations totalled up to 1,790. Thirteen of the cows examined were found to be tuberculous as to the udder, one was doubtfully so, and three others had advanced tuberculosis not obviously affecting the udder. Twelve cows were tested with tuberculin.

This subject is so important that though the tables giving details (VIII a. and VIII b.) are contained amongst those relating to administration, it has been thought better in the present instance, as the matter essentially concerns tuberculosis, to refer to it somewhat in detail in the text of the supplementary portions of the report.

BIOLOGICAL EXAMINATION FOR TUBERCLE.

As was done last year an asterisk has been put against each examination in table VIII b. where the milk was taken from a single cow.

On January 2nd, 1909, in this way a specimen was taken from a cow of a farmer at Yeadon supplying milk to a retailer (No. 581) in Leeds. The circumstances were as follows :--On November 3rd, 1908, one of our inspectors had taken a specimen of milk, from the can of the farmer, at the Midland Station, Leeds, at 3.50 in the afternoon. The sample was taken on the arrival of the can, which bore the farmer's name, was numbered 20, and contained about 11 gallons. The specimen was put into a previously sterilized bottle, placed in a tin surrounded by ice and sent to the medical school. On the 31st December, 1908, we had a written message from the medical school that the milk was tuberculous.

Mr. Dixon visited the farm on the 2nd January, 1909, examined 12 cows, found 11 healthy as to the udder, but recommended isolation of a roan cow with a split fore teat and enlargement of both hind quarters. A specimen of milk from this cow was taken in a sterilized bottle, placed in ice and

47

The milk supply

afterwards sent to the medical school on January 6th. On the 18th, Mr. Dixon again examined this cow and pronounced the udder tuberculous. On the 13th of March, we heard from the medical school that the sample sent on the 6th of January did not give evidence of tubercle in either guinea pig. The question naturally arises whether the delay in sending the milk from the 2nd to the 6th might have had anything to do with the fact that the result of the test was negative. January 2nd, 1909, was a Saturday, and a sample could not have been sent to the school before the 4th. We have not been able to account for the two further days' delay. As this farmer gave up business no further sample was taken, and as the cow had been disposed of, we had no opportunity of confirming the diagnosis. About the correctness of this, however, there seems to be no doubt. Mr. Dixon distinctly remembers the condition of the cow, and he was accompanied by Dr. Carnes on the occasion of the visit on the 18th January.

On the 13th January (table VIII b.) specimens of milk were taken from two cans belonging to a farmer at Shadwell. The samples were taken in each case at the retailer's house. That from retailer No. 630 from an 81 gallon can at four in the afternoon, and that from retailer No. 258 from a can containing 15 gallons, a little later the same afternoon. In both these cases the result was negative. The reason that these samples were taken was because, on the 10th November, 1908, two specimens of milk from the same farmer had been obtained at the houses of retailers No. 258 and No. 576, the one from a fifteen, the other from a 4¹/₂ gallons can. In both cases the cans were the farmer's cans, not the retailers'. The specimens were taken within a quarter of an hour of one another, put into sterilized bottles, placed in ice, and sent to the Medical School the following day. In both cases the result was positive. This laboratory report was received in writing on December 31st, 1908. Owing, however, to a telephonic communication from the School, Mr. Dixon had

the previous day visited the farm and examined 25 cows. He found a blue roan cow, which had calved about the 23rd of December, about one week before her full time, suffering from metritis, and although her udder was apparently sound, he suspected that the animal was infected with tuberculosis. He ascertained also, that subsequently to the date of the taking of the samples on November the 3rd, three cows had been sold from the herd as "fat." On the 4th January he visited the farm and again examined the affected cow, which had in the meantime, at his direction, been isolated. The control samples obtained on delivery to the retailers on the 13th of January, 1909 (see Table VIII b.), were taken to ascertain that there was no tubercle producing cow still in the herd. Before the result was known, however, on the 14th, Mr. Dixon ascertained from the farmer that the cow isolated on December 30th had died, and on the 15th he found the whole of the remaining herd apparently healthy. The two specimens from the cans containing respectively 81 and 15 gallons presumably were fair specimens of all the milk being distributed by that farmer from his 25 cows.

These samples were from detected farms. A specimen of milk from a Leeds milk farm was obtained on the 14th January, 1909, in the cowshed itself, at 4.15 in the afternoon from a can containing the milk of ten cows. It was received in a sterilized bottle, which was placed in ice at once, and sent to the Medical School on the 15th. This was also a control sample from a farm from which tuberculous milk had been sent to Leeds. The circumstances were as follows:—A sample of milk had been taken from the same farmer's churn in a street at Kirkstall Hill at 4.30 p.m. on October 21st, 1908. The churn contained about 11 gallons and belonged to a Leeds farmer in the Headingley district (see table VIII b Annual Report, 1908). On the 31st of December, it was reported "tuberculous," and on the 2nd January the farm was visited by Mr. Dixon, who examined the whole herd consisting of 12 cows (table VIIIa present report).

Eleven appeared healthy but one had a slight induration of the right hind quarter. She was in "poor condition" and had a calf. Mr. Dixon regarded the udder as in an early stage of tuberculous mastitis. The farmer promised to isolate the cow and destroy her milk. A specimen of the milk were therefore taken from the farmer's can containing the milk of 10 cows, all then remaining in the shed, to ascertain whether the milk being sold was free from tubercle. On the 18th-of January, Mr. Dixon again visited the farm and found the diseased cow gone, and was unable to ascertain what had become of her.

The following seven specimens in Table VIII b are what we call "original samples." Two were from farms in Hortonin-Ribblesdale. They were from two separate churns and from different farmers supplying the same retailer. One of these was pronounced "not tuberculous." In the other case the test was incomplete. This matter will be referred to later.

The original sample from West Marton was from a farmer's churn, and was obtained at the Midland Station, and there was no evidence that it was tuberculous.

The two specimens bracketed from Elslack were from two churns belonging to one farmer. They were taken at the Midland Station on delivery to the same retailer. The two bracketted specimens from Thornton were similarly taken at the same station from two churns belonging to one farmer on delivery to one customer.

The second specimen from Ribblesdale had yielded an incomplete result. The milk was regarded at the time as dirty, so two fresh control specimens of the same farmer's milk were obtained on delivery at the station on February 2nd, and a third specimen from the other Horton farmer supplying the same retailer, No. 306. None of these three control specimens gave evidence of tubercle, but both specimens from the farmer whose milk had yielded the incomplete result in the specimen taken on the 19th of January, produced abscesses

Milk from outside farms.

in guinea pigs injected. The milk was evidently unwholesome, although not distinctly tuberculous. On receiving information as to these results, Mr. Dixon visited three farms in Hortonin-Ribblesdale on April 22nd, and reported that he found 45 cows apparently healthy as regards their udders, but that the cattle at all three farms were in a filthy condition, probably accounting for the mortality amongst the guinea pigs.

Four samples sent on the 9th of February are what we call "original samples;" the two from Goldsborough (bracketed) being from the same farm. The two specimens from Leeds were taken, the one from the can of a retailer (No. 592), the other from the farmer's own can on delivery to retailer No. 6. These are, therefore, also original samples and from one farmer. The reason for taking two specimens was to cover the whole milk supply of that farm. The two specimens taken on February 17th from cans from Rylston and Benningborough were also original specimens. The two specimens (bracketed) from Seacroft on February 23rd are original specimens taken from the cans of the same farmer upon delivery to two different retailers, the object being again to test the whole milk supplied by this farmer. The remaining specimen of this date was also an original sample, as was the specimen from Horsforth taken the following day.

The two specimens marked Wakefield, taken on March 3rd, might be regarded as "control samples." They were obtained at the Leeds G. N. Station from the milk sent from an estate near Wakefield, but outside that city. A succession of tuberculous specimens had been obtained from this farm in 1908. On June 17th of that year, two specimens obtained at the G. N. Station, Leeds, from the farmer's own churns on delivery to dairy 421*, were both found to be tuberculous, the one being reported in writing on the 1st August, the other on

51

^{*} The retailer 421 is the Provincial Dairies Co. who have several places of business and several numbers in our dairy list. They received generally the number 422 in the report for 1909.

the 6th. Information had, however, been communicated to us by telephone before the earlier official certificate was received, and on July 29th, 1908, in consequence of information received the previous day, Mr. Dixon and Mr. Walker had visited the farm. They had found 22 cows, 21 in apparently good condition, the remaining cow-a large roan standing fifth on the right hand side on entry-in poor condition. On examining her udder Mr. Dixon found the left hind quarter indurated, extensively enlarged and he certified the cow as suffering from "tubercular disease of the udder." A specimen of this cow's milk was obtained on the same day (29th), sent to the school and subsequently pronounced to be tuberculous. The manager of the farm agreed to isolate the cow. On the next day, July 30th, 1903, we took two specimens of milk, one from each of two cans, at the railway station from the same farm. These were afterwards pronounced free from tubercle. Two further specimens were taken from single cows on September 14th, 1908, they also showed no evidence of tubercle. The two fresh specimens on March 3rd, 1909, were from the same farm taken at the station in the same way and again with a negative result. It was a matter of no little satisfaction to find the milk from this large farm at length apparently free from tubercle.

The following specimens, Tadcaster and Elslack, are "original samples." The two from Rawdon (bracketed) taken on March 10th from milk supplied to different milk retailers by the same farmer were also "original," result negative.

None of these four samples gave evidence of tubercle. The Tadcaster specimen was from a can containing 19 gallons. A previous examination of this farmer's milk was made on October 17th, 1908, from a 10 gallon can, also with a negative result. The Elslack milk had also been sampled, but only from one can, on November 4th, 1908, with a like negative result. The milk from the Rawdon farmer, supplying retailers

Milk sampling.

561 and 174 was from cans containing 12 and 4 gallons respectively. The same farmer's milk had been sampled April 1st, August 26th, and September 9th, 1908, from cans delivered to retailers Nos. 15, 174 (11 gallons), and 513, also with negative result.

The other samples taken the same day from Horsforth and Rawdon are from two different farmers supplying two different retailers, both were "original samples," and both tuberculous. Two specimens from Horsforth and Rawdon supplied by different farmers to different vendors were also "original samples," and both tuberculous. A fifth tuberculous sample was from Tong. The man retailed within the City. The condition of these five contaminated milk supplies was reported to us from the school on the 15th of April.

The Horsforth farm, supplying retailer 517 was visited on April 6th, previous information having been received by telephone from the school. At this farm there were 15 cows, only one of which could be regarded as suspicious, but even she gave no evidence at that time of tubercle of the udder. At my request Mr. Dixon re-visited on the 14th, and suggested to the farmer the desirability of testing with tuberculin. This he promised to consider, but afterwards refused to allow. On the 14th there was still no evidence of tubercle in the udders of any of the cows. About four weeks afterwards (May 10th), Mr. Dixon examined 16 cows at this farm, two had been added since his visit in April. The red cow which he regarded as probably tuberculous in April was still at the farm but sold, her general condition was no better than before, but the condition of her udder was still more suggestive of tubercle than at either previous inspection, and Mr. Dixon had very little doubt that she was the cow who had contributed the tubercle bacilli to the specimen of milk taken from the can supplied to retailer No. 517 on the 10th March. In the meantime, however, on April 21st, we had taken another control specimen

Tuberculous infection

of this milk on the premises of retailer No. 517, but from the farmer's own can when his own man was in actual charge. This was after the suspected cow had become dry. This specimen gave a negative result, leading us to suppose that after this cow had been removed from the herd the farmer's milk was free from tubercle.

The other tuberculous specimen taken on March 10th came from Rawdon. The milk had been taken from the farmer's can in a street off Kirkstall Road on the 10th March, the can containing about eleven gallons. April 15th, result reported positive. On the 17th April Mr. Dixon visited this farm, examined 10 cows, and found a waster, a dark blue roan, with indurated udder. He arranged for the isolation of the cow, and destruction of her milk, and gave the official certificate that the animal was suffering from "tubercular disease of the udder." The diagnosis was confirmed by the post-mortem.

A specimen of this farmer's milk had been previously examined on September 9th, 1908, with a negative result. On that occasion, also, only one specimen seems to have been taken, but as there were only 10 cows, the farmer's can might in an afternoon contain the whole of the milk from the herd.

The Horsforth farm supplying the milk on March 16th to retailer 118, reported as tuberculous, on April 15th, was visited by Mr. Dixon on the 17th—30 cows were examined, one found to be affected by tuberculous udder and another by chronic suppurative mastitis, probably simple. Orders were given to isolate the tuberculous cow, and on revisiting on May 10th, there was every reason to suppose this had been properly done.

The Rawdon farm supplying milkman 198, was also visited on April 17th. Four cows were in poor condition and dirty, one apparently suffering from tuberculosis, not, however, palpable in the udder. A sample was taken on the same

in milk.

date (17th April) from this cow and pronounced later to be "not tuberculous." The cow was seen again on the 10th of May, and on the 2nd of June was growing progressively worse. On the 25th of June she had gone nobody knows where. The milk on April 17th was the mixed milk from all four teats. The animal was clearly tuberculous, but the udder was not palpably affected.

As Mr. Dixon, however, points out, it is quite possible that this cow might have been giving tuberculous milk on the 16th of March, although the milk on the 17th of April, taken directly from the animal herself, gave no evidence of the presence of the tubercle bacillus. It will be remembered that in the third interim report of the present Tuberculosis Commission it was shown that tuberculous cows, free from evident tubercle of the udder were capable of giving milk at one time free from, and at another containing the tubercle bacillus (Cd. 4,483, pp. 9, 10, cow B.).

On March the 17th a specimen of milk from a farmer living at Tong, and himself retailing the milk in Wortley and Armley, within the City, was taken from his own can in a street off Whingate Road at 9.25 in the morning, put into a sterilized bottle, which was placed in ice, and was sent the same forenoon to the medical school. On the 15th of April we received a written certificate that tubercle had been produced by the milk and tubercle bacilli found. The following day the farm was visited. There were 19 cows, 18 apparently healthy, and one, a dark roan, which had been dry for a week or two, awaiting a third calf, was apparently suffering from tuberculosis generally, her udder was diseased and probably tuberculous. Although this cow was dry she had been in milk on the 16th of March, when the sample was taken. Since that day the owner had sold one cow, and dried off another, and had added a newly calved cow to his herd. The opinion come to by Mr. Dixon from the circumstances was that this dark roan cow was the culprit. We

Tuberculous milk

accordingly communicated with the medical officer of health for Bradford-Tong is now in that city-asking him to send his own staff to deal with the matter. On the 21st of April, however, we took a control sample at Silver Royd Hill, Leeds, from the farmer's can, when in his own cart, and in charge at the time of his son. Although the farmer had promised to isolate the dark roan and destroy her milk, the sample from Silver Royd Hill was reported to us (June 3rd) as containing the tuberculous infection. Meantime the Bradford authority had visited the farm, confirmed our opinion as to the dark roan cow which it was alleged was being kept isolated. They tuberculined the whole herd and took milk samples from three cows. On receiving the information that our control sample was also contaminated we visited again on the 8th June. At that time there were sixteen cows in the shed, and one in the field, dry. Ten in the shed and the one in the field had reacted to the tuberculin injected by the Bradford authorities. Their veterinary surgeon met Mr. Dixon on that occasion, and the two agreed to isolate another cow, a large roan with an induration of one guarter of the udder, one of the reactors. A specimen of milk had already been taken by the Bradford veterinary surgeon, but we have not yet heard with what result. The cow which Mr. Dixon had separated on the 16th April had meanwhile been sold to a dealer, and we lost all trace of her. We visited again on June 22nd to see that the isolation promised was being kept up, saw the fifteen cows left in the shed, all of which appeared healthy. The large roan cow last separated was in much the same condition as on the previous visit, and was being milked. The red cow in the field had in the meantime calved, but her udder appeared healthy.

The other sample taken on March the 17th was also an original sample. It was obtained from the retailer's can, in the street, at 10.30 in the morning. We ascertained that the retailer's can had been filled from the Gargrave farmer's own

from Wharfedale.

can at the railway station, and that no other milk but the Gargrave milk was in the can. The reaction in this case was negative.

On the 23rd March original samples from a Guiseley farmer, and from a Clapham farmer, and from one at Elslack, were taken at the Midland Station, and no tubercle was found.

On the 23rd March, at the North Eastern Station, at 4.20 in the afternoon, a sample was taken from the churn of a farmer from Pool. The churn contained 64 gallons. The sample was put in ice, and sent the following day to the medical school. On the 15th of April this specimen was reported to us as "tuberculous." Mr. Dixon visited on the 17th April and found the general condition of the cows good, and none of them obviously tuberculous. No cow was said to have been disposed of since the taking of the specimen, but two newly calved cows had been added to the herd. Of the fifteen cows in the herd examined, all were apparently healthy, none of them exhibited any sign of tubercle of the udder. One, however, had a slight induration of one quarter of the udder, said to be due to injury, which explanation Mr. Dixon was inclined to accept. On the 20th of April we took a control sample of the milk from this farm at the North Eastern Station, from the farmer's own can, in his own presence. This control sample was reported free from tubercle. We were, therefore, at a loss to account for the tubercle in the specimen of milk taken on March 23rd from the farmer's own can at the North Eastern Station. It is of course, however, not impossible that some previously tuberculous cow may have defiled the mistal before March 23rd. At Mr. Dixon's further visit on the 10th May he found no reason to suspect any particular cow then remaining in the herd.

The next three specimens were taken on March 30th from the farmers' own cans at Armley Midland Station. One was an original sample from a farm at Bingley. It was not certified as tuberculous. Specimens from this farm had been taken

Airedale and

previously with the same result. On this occasion, however, circumstances induced Mr. Dixon to visit this farm, which he did on the 4th of June, and then he found 38 cows, of which one had a suspicious condition of the udder. The cow was tested with tuberculin, re-acted, and on a further examination Mr. Dixon had no hesitation in certifying that the udder was tuberculous.

The two other samples taken on March-30th at the Midland Station, Armley, were consigned to a Leeds dealer (453) by a farmer at Carlton. One of the samples proved tuberculous, the other not. They were both received at the school on April 1st. On the 7th May we received a telephonic message about the tuberculous specimen, and Mr. Dixon visited on the 8th. He examined 23 cows, 21 apparently healthy, 2 had indurated udders, but these he regarded as cases of chronic suppurative mastitis. As this examination was made when the cows' bags were full of milk, Mr. Dixon re-visited the farm on the 10th, and examined the same cows after milking with exactly the same result. He also learnt that since the sample was taken on the 30th of March, five cows had been sold "dry," and three newly calved had been added to the herd. On the 11th of May, two further specimens, controls, were taken at Armley Midland Station from the same farmer, consigned to the same retailer, one of them proved tuberculous, the other not. We heard of the tuberculous one on the 29th June, but the written report did not reach us until the 3rd of August. Mr. Dixon, however, had visited the farm on June 2nd before hearing the result of the May controls, and again on the 25th, and on the latter occasion arranged for the isolation of a cow with a suspicious udger, and when we had the telephone message on the 29th that one of the milk specimens, taken on May 11th, contained tubercle, he persuaded the farmer to allow him to tuberculin the cow. She re-acted, but as the udder was still not very clearly tuberculous, the animal was isolated. She was seen again on

Wharfedale cows.

the 12th July, when he had no difficulty in pronouncing that she had a tuberculous udder. Meanwhile, a further control had been taken at the farm on the 29th June, of a mixed milk. This also proved to be tuberculous. On July 27th, having heard of the positive result of the mixed milk taken on June 29th, Mr. Dixon again visited this farm and found the roan cow satisfactorily isolated. The 23 cows in the herd were apparently healthy. On the 10th of August he visited again, and found 20 cows all apparently healthy, the roan cow already mentioned "dry." On the 18th August a mixed sample was taken at the farm, which gave a negative result.

The four samples in the table taken on April 17th, 20th, and 21st were controls, and have been already referred to. On April 26th two specimens of milk were taken at a farm in Halton supplying milk to the Fever Hospital, one from a can containing the milk of eight cows, the other from a can containing all the milk of six cows. The two were considered to represent the whole of the milk from the farm. The result was negative.

On April 27th two samples were taken both from Horsforth farmers, and in both cases from the farmers' own cans. In both cases the result was negative.

On May 4th three specimens were taken from three cans in the same cart coming from one farm in process of transmission to the same dealer. All three were tuberculous. On the 3rd of June we heard by telephone the result as to two of these samples, and accordingly on the 5th Mr. Dixon visited the farm, which is just beyond the boundary of the borough. He found 46 cows, 45 apparently healthy. The other was a small shorthorn with advanced tuberculosis, obviously affecting the udder She was removed to the knacker's yard the same night, slaughtered the next morning, and the diagnosis amply confirmed. On the 29th June a further message was received that the third sample had also given a positive re-action, tubercle

Milk of 45 cows infected.

bacilli had also been found. Mr. Dixon again visited on the 30th June, and found all the cows apparently healthy. He made several other visits, but always with the same result.

This case is rather interesting. In the first place we heard by message on the 3rd June that samples Nos. 51 and 53 were tuberculous, and on the 29th that sample No. 52 was also tuberculous. On the 3rd June the result in regard to 51 was confirmed in writing, and on August 3rd the results in regard to 52 and 53. It seems as if the delayed information about sample 52 indicated a retardation in the action of the tuberculous poison. We are inclined to account for this on the hypothesis that a larger quantity of milk from the tuberculous cow got into the cans from which the specimens Nos. 51 and 53 were taken, and if we had relied upon the result in sample 52 we should not have heard of the tuberculous condition of this cow for nearly a month later than we did. In the second place the mode of treating the milk enabled that of one cow to affect all the milk from this farm.

Two days later, May 6th, two specimens of milk from another farmer, just outside the boundary, were taken from two different cans consigned by one farmer to two different dealers. The specimen sent to dealer 374, was taken at 6.15 p.m. from the farmer's own can containing $9\frac{1}{2}$ gallons, before delivery to the retailer, and the specimen of the milk sent to No. 46 was taken at another place from another can containing 10 gallons belonging to the same farmer. These two cans did not contain the whole of this farmer's milk, and although in both cases the laboratory result was negative, it does not follow that the whole of the milk from this farm was free from tubercle.

The control samples from Carlton taken on May 11th have been already mentioned. On the same day two samples were taken from the cans of a farmer at Eccup, himself in charge of the cart. The results were negative. The two specimens, however, would not necessarily sample the whole of the man's milk.

60

Some tubercle-free milks.

On May 18th, at the North-Eastern Station, Leeds, an original specimen was taken from a can consigned by a farmer from Spofforth. The result was negative. The same day, at the same Station, a specimen was taken from a can consigned from Nidd Bridge, and the result was also negative. On the 18th also, two original samples were taken from two cans belonging to one farmer from the same cart in a street in Leeds at the time of delivery to retailer 537.

On the 26th, a specimen of milk was taken from the can of another Pool farmer, consigned from Pool to Holbeck for retailer No. 50, and at the same time on arrival of the same train, a specimen from another can from a Huby farmer, put on the rail at Weeton Station. On the same day also in the morning, a specimen of milk was obtained from a Bramhope farmer's can as it was being poured into the retailer's can, and in the same way a specimen from a Horsforth farmer as the milk was being poured into that of retailer No. 74. All these four specimens gave negative results.

On June 8th, two specimens from two cans belonging to one farmer were taken on delivery to the same retailer, No. 123. The result also was negative. On the same day the milk of a farmer at Alwoodly, just on the border of Leeds, was sampled from the retailer's can shortly after its arrival in Leeds. The result here was also negative.

On the 15th June, a sample was taken from a Bramhope farmer's can, in the street, before delivery to retailer No. 432. On the same day, a Leeds farmer's milk was sampled in Leeds at the place of delivery, but after the milk had been transferred to the retailer's can. The result was also negative, and the same day a third specimen was taken from a can consigned by a farmer at Denton. The sample was taken at the Midland Station, Leeds, where it had come from Ben Rhydding. All these specimens since and including May 11th, except the two from Carlton, were "original samples."

61

On the 22nd June, a specimen was taken of the milk from one of the farmers at Ribblesdale, whose supply had excited our interest before; it had proved fatal to guinea pigs. Although the specimen in question was not regarded as tuberculous it caused a local abscess in one of the guinea pigs.

The next two specimens are of the mixed milks of three farmers. Both were from the cans brought from Barnoldswick into Leeds, and both gave negative results.

On June 29th, a control sample from Carlton, as already said, proved tuberculous. The same day a Rawdon specimen was taken from a retailer's can. It did not prove to be tuberculous. The Leeds specimen on the same day was taken from the farmer's cart before delivery to the retailer. The result was also negative, and on June 30th, the milk from a Guiseley farmer, taken from a retailer's can, also gave a negative result.

On July 7th specimens from Grassington and Pool were taken in Leeds at the Midland Station, the first immediately after being put into the dealer's can, the other from the farmer's own can. The result in both cases proved negative. The second Pool sample that day was taken at North Eastern Station. It was not an original specimen. It was from the same farm as the specimen taken on March the 23rd, which was tuberculous, and April 20th, which was negative. It may be regarded as a control specimen. The result was also negative.

The next two specimens were taken on the 8th and 14th, both at the Midland Station. They were both original specimens and both negative.

On July 14th, also at the Midland Station, a specimen of milk was taken from the can of the farmer at Denton, whose milk had been already sampled with a negative result on June 15th. In this case, however, the result was positive. We had a telephone message on the 19th of August. The farm was visited

A condemned cow.

on the 21st Mr. Dixon found six " dry " cows and 27 in milk. He examined the udders of all, found the six dry cows, and 25 of the others, apparently healthy. Two others he suspected to have tuberculosis of the udder. They were at once isolated and the milk destroyed. On the 27th he re-visited with the Medical Officer of Health of the district. The same cows were examined with the same result, and a new cow, which appeared healthy. Arrangement was made to test the two suspected cows with tuberculin. This was done on the 1st and 2nd of September. Both cows re-acted ; one was then certified to have a tuberculous udder. Both were "dry." On the 20th of September these two cows were seen by Mr. Dixon in Denton Park, separated entirely from the herd. At a further visit in November he found all the cows in the milk herd apparently healthy. On November 10th control samples were taken from the same farm consigned to two different dealers with negative results. This farmer gave us every help. He was anxious to eliminate tubercle from his supply.

On July 15th a sample from a Burnsall farmer was taken in North Street, Leeds, from a retailer's can: result negative.

On July 28th the milk of a Leeds cowkeeper and retailer was taken at his own house and proved tuberculous. A telephone message was received on August 21st to the effect that the milk was tuberculous. On the 12th of August, however, Mr. Dixon had in his ordinary routine visited this cowshed and condemned a cow as having a tuberculous udder. On the 27th of August he made a *post mortem* of the same cow and found miliary tuberculosis in both lungs, and old standing pulmonary tuberculosis. Several nodules were present throughout the udder, particularly in the right hind quarter,—the quarter in which the disease was diagnosed during life. As will be seen from table VIII a. this farm had been visited and seven cows examined on the 18th of March, but at that time none showed palpable evidence of tuberculous udder disease. The next four samples were original samples, the results all negative.

The next sample, the first of two from Horsforth taken on August 18th, was from the farmer's own can, standing in the passage of the retailer's premises before it had been emptied, and containing six gallons. This specimen was received as usual in a sterilized bottle, but in this case, contrary to instructions, not put into ice. It was forwarded, however, the same day to the Medical School. On September 6th it was reported in writing that the guinea pigs had died prematurely. Possibly the milk contained poisonous bacilli other than tuberculous, acting more quickly than the latter. The result of the investigations has, therefore, been entered as "incomplete."

On the same day, August 18th, another sample of milk from another Horsforth farmer was obtained from the farmer's own can in the street opposite the retailer's premises and taken to the Medical School, but again not in ice, at 11.30 the same day. On October 12th it was reported to us that the result was negative. On the same day, August 18th, another sample was taken from Carlton, from the farmer already mentioned. This was regarded as a control sample. The result was also negative.

The three next samples from Seacroft may be regarded as original. They were from one farmer but from different cans. One of these was in process of transmission to retailer No. 48, another to retailer 510. The milk from the third can was being retailed in York Road by the farmer himself. The quantities in the three cans which were all sampled in the farmer's cart at Harehills Road, were 6, 10, and 7 gallons respectively. These samples were put into ice at once and sent to the School, with negative results.

The sample from Whinmoor in course of delivery to retailer 293 was taken from the farmer's cart about ten minutes

before the three last mentioned, in the same street. On the 7th of October we had a telephone message that this specimen was tuberculous. A written report was received on the 12th. On the 9th of October Mr. Dixon visited and examined 36 cows, all apparently healthy. Four others had been sold between the taking of the sample on the 25th of August and Mr. Dixon's visit on the 9th of October. On the 22nd of October Mr. Dixon revisited the farm, again examined the same cows but found no evidence of tubercle of the udder in any of them. On the 18th of November Mr. Dixon again visited with the same result. In the meantime, on the 2nd of November, three further samples of this man's milk were taken from three distinct cans, on delivery to three distinct dealers. The three samples were all taken from the farmer's cart, at the place of earliest delivery on the afternoon of November 2nd, the bottles placed in ice, and sent the following morning to the Medical School. The result in each of the three cases, which were of course controls, was negative. Although, therefore, we had not found the inculpated cow, we had pretty strong evidence, first from the examination of the herd on the dates given, and second from sampling on November 2nd all the three cans of this farmer, containing respectively 181, 81, and 12 gallons, and probably accounting for the whole of the afternoon's milk from the 36 cows, that the milk, then being distributed, was free from tubercle. The probability is that the offending cow may have been one of the four disposed of between the 25th August and the 9th of October.

The next four samples were also "original" ones. The last-named, from Ben Rhydding, taken on September 1st, was reported to us on October 7th by telephone as "tuberculous," and a written report was received on the 12th. On October 8th Mr. Dixon visited the farm and found 34 cows in milk, one of which he suspected to have tuberculosis of the udder. The cow was ordered to be isolated and her milk destroyed. Another

Infected Airedale farm.

had been sold since the sample was taken. On the 20th October the farm was re-visited, the cattle re-examined, and the diagnosis of the roan cow confirmed, and an official certificate given accordingly. On November 2nd Mr. Dixon re-visited, found the roan cow effectively isolated, the others without any evidence of tubercle of the udder. It was not thought necessary to take any control sample.

On September the 7th, three specimens were collected from Apperley Bridge. They were all taken from the farmers' cans at the Leeds Station. The first was from one farmer from a can consigned to retailer No. 412, and containing 9 gallons. The second and third were from a farmer in the Yeadon Council's district, and consigned to two separate dealers, 302 and 150. All three samples when taken were placed in sterilized bottles and put in ice. The two from the same farmer were taken from cans containing respectively 14 and 11 gallons. On October 9th we received information by telephone, that the sample from the can consigned to retailer 302 was tuberculous. This information was confirmed by letter on October 12th. It was not until December 21st that we heard in writing that the other sample from the same farmer, taken the same day, was also tuberculous. In the meantime, however, on the 10th of October, Mr. Dixon had visited the farm and examined 53 cows, 50 apparently healthy. One had been already isolated by the farmer himself, and was considered by Mr. Dixon as having advanced tuberculosis, though not apparently affecting the udder. The second cow had an induration of one quarter of the udder, suspected to be tuberculous. The third cow, a light roan, had an enlargement of both hind quarters, which was regarded as tuberculous. On October 20th my veterinary assistant re-visited, met the Medical Officer of Health of the District and the Sanitary Inspector of the County. There were 55 cows all apparently healthy. All the three cows formerly suspected were

Sale of infected cattle.

re-examined, and the light roan cow with the suspected udder was certified as having tuberculosis of that organ. At this time all three suspected animals were being efficiently isolated. The farm was visited again on November 2nd, when Mr. Dixon found 53 cows apparently healthy as to their udders. The red and white cow with advanced tuberculosis had been moved to another farm where it was said there were no milk cows. The other two with diseased udders, one certified and one suspected, had been sold, no trace of them could be The farmer applied for compensation, which the obtained. Committee would probably have readily granted during the time that there was some doubt as to the condition of the animals, but were advised that the compensation should be absolutely refused as no satisfactory information had been given as to the whereabouts of two of the animals with indurated udders. The farmer had not notified us of the condition of the udders of his cows.

On September the 8th, a farmer at Rawdon had his milk sampled from the retailer's can in the street. This can had not been in the retailer's premises at all since the farmer's milk was transferred to it, and contained only a pint or so at the bottom of the can. The sample was placed in ice. On the 7th October we received a message by telephone that the sample was tuberculous. A written report followed on the 12th. Meanwhile, on October 8th, Mr. Dixon visited the farm with Mr. Walker and the sanitary inspector of the district (Rawdon), found 20 cows, one with a suspicious udder, ordered that she should be isolated and her milk destroyed. Informed that since the sample was taken two cows had been sold, one a "bad doer, and in poor condition." On October 20th, Mr. Dixon revisited, and concluded that the udder of the roan cow isolated since October 8th was not tuberculous. He inclined to the view that the waster, described by the farmer, was the cause of the tubercle in the milk. The farmer in this

case was compensated for loss of milk from the suspected cow to the extent of 24s., but on the 22nd of February of the present year two control samples were taken, one of which proved tuberculous. In this case also on visiting it was found that a cow had been slaughtered at the farm, and we had reason to suppose that she was tuberculous.

On September 14th an original specimen was taken from a farmer's can at the retailer's dairy and sent in ice to the school. The sample came from Horsforth. On the 21st of December the result was returned as "Tuberculous." On the 18th of November, however, we had received information by telephone that the specimen was tuberculous. Mr. Dixon visited on the 21st, found 26 cows in milk, and one dry; one of the former had a tuberculous udder. This cow was ordered to be isolated, and her milk destroyed. On the 6th of December, at another visit, the diseased cow was found to be satisfactorily isolated and the other cattle apparently healthy. On Mr. Dixon's first visit on November 21st, he certified the cow as suffering from disease of the udder, and warned the cow-keeper of his responsibility in this matter. On the 7th of December a letter was sent by the Medical Officer of Health confirming the warning. This cow-keeper applied for compensation, but it was explained that he had not notified the existence of the tubercular udder in the cow, but had left it to us to find it out by examination of the milk, that he had been breaking the law by sending the milk of that cow into the market. Under these circumstances compensation was not recommended.

The same day (Sept. 14th) a sample was taken from a can in the cart of another Rawdon farmer, and on the 17th November it was telephoned to us that it was found to be tuberculous. On the 21st Mr. Dixon visited what we supposed was the farm from which the milk had come, and found 13 cows all apparently healthy. He learned that 4 or 5 cows

Find the Cow !

had been sold since the sample was taken. He visited again on the 6th December, with the same result. It was accordingly resolved to sample again the milk taken from the same cart, when it was ascertained that the milk in this cart came from more than one farm. Accordingly, on the 14th of December samples were taken from three different cans, and one of the three was returned as tuberculous. The difficulty was to ascertain from which farm the infected sample came. The two farms belonging to the brothers whose names were on the cart were again visited several times, on each occasion with a negative result, and then the fact that a third farmer was allowed to send milk on this cart was ascertained. It was not, however, until the beginning of the present year that we heard that this third farmer was sending milk in the same cart into Leeds. A sample of this farmer's milk delivered to No. 274, had been taken on June 29th and found free from tubercle. It was not known on December 14th, when the control samples were taken from the Rawdon farmers' cart that this third farmer was sending milk into Leeds, but two specimens of his milk were again taken on the 22nd February of the present year, and both found to be tuberculous. A telephone message was received on the 17th March, 1910, from the Medical School, and on the 18th Mr. Dixon visited, and found one of 14 cows with a suspicious udder. He isolated her. On April 15th she was seen again, and certified as suffering from tubercular disease of the udder.

It is interesting in this case to inquire why we were informed on the 17th March of tubercle in the one specimen taken on February 22nd, but heard nothing about the other specimen until the 26th April. At his visits, Mr. Dixon learned that the milk from the blue roan cow which he ordered to be isolated on the 18th March, 1910, had been usually put into a large can, from which, when the milking was completed, the contents of the smaller cans were taken. The specimen of this milk which gave the first result was taken from the II gallon can, the specimen in which the result was retarded from a $2\frac{1}{2}$ gallon can. The probability was that the milk from the affected cow was put into the bottom of the large can and the $2\frac{1}{2}$ gallon can was filled from the large can after other milk had been added. Naturally, the upper part of the milk would go into the smaller can somewhat mixed with the milk first put in, but the larger quantity of this infected cow's milk would be in the larger can.

The following three samples from Bramhope and Horsforth (September 14th) and from Otley (September 21st) were original, and the results negative. The next one from Cookridge was from a farm from which a sample had been taken on July 28th with a negative result. The examination was unsatisfactory, the milk produced abscess in a guinea pig. A sample has been taken since, but at the time of writing this report the result of the test has not been received. Two samples were taken, both with negative results, from the milk supplied by the Pool farmer, from which the negative result had been obtained in milk supplied by the same farmer to the same retailer on May 26th (see earlier). Two specimens from Old Bramhope, from different farmers to different retailers, were taken on the 28th, both gave negative results.

On the same day (September 28th) a specimen from a farmer at Alwoodley Gates was taken from his own can in Harrogate Road. On the 18th November we learnt that it was tuberculous. On the 21st November Mr. Dixon visited and examined 20 cows, all young, all apparently healthy, but he learnt that a black cow had been sent to the knacker's yard four or five weeks before our visit, but after the taking of the sample on September 28th.

The sample taken on the 29th from another farmer at Alwoodley was not proved to be tuberculous. The two Bingley samples (October 6th) were taken from a farmer whose farm we had visited in June, and at which we had condemned a tuberculous cow (p. 58). They are really control samples and both negative. They were taken from the farmer's cans at the Holbeck Station, containing the one 14 and the other 12 gallons. These 26 gallons would not contain all the morning's milk of 38 cows. This farmer sends some milk to a son in Leeds, who distributes, as well as to retailer, but the son's milk is sent to the Armley Station, that of retailer 605 to the Holbeck Station, so our examination of these two specimens is not of the whole milk from the farm. It will be remembered that the sample of this Bingley farmer's milk consigned to retailer 605 on March 30th gave a negative result, but on June 2nd we found a cow in his herd suffering from tubercle of the udder.

The Wigton samples of October 6th were from one farmer and sent to one retailer. The following, Otley, Bramhope, Oakworth and Guiselev, taken on 12th and 13th, were all original samples, and the result in each case negative. The following three Guiseley samples on October 19th were from three farmers and all negative. The Apperley Bridge, Bolton Abbey and Ripley Valley samples were also original and negative. The three following samples were controls and have been already mentioned. The Oxenhope sample, also negative, was an original sample. The Grassington and Settle samples on the 9th of November are from separate farmers, original samples, and both negative. The two samples from Denton were from one farmer and were controls. They have been already mentioned. The sample from Gargrave was from the same farmer from whom the sample was taken on September 1st with a negative result, but as this was a new and independent enquiry, we regard it as an original sample. The Grassington and both Middleton samples were all three original and negative. The first Middleton sample was taken from a farmer amongst whose cows some two years before we had a good deal of trouble.

Both samples from Newsam Green (Nov. 23rd), though from the same farmer and from cans sent to different retailers,

A Leeds dodger.

were both tuberculous. They were reported so by telephone on the 16th December. Mr. Dixon visited the next day and found one cow, out of 35, with a suspicious udder. He isolated her and condemned her milk. She was seen again on the 21st and 29th, and on the last date he did not hesitate to certify that the udder was tubercular. We had previous cases at this farm a few years ago, before the present tenant came into occupation.

The two Knostrop samples sent by one farmer to the same dealer gave also a negative result. The Colton, Leeds, Halton and Roundhay samples were all negative, all original, and all from separate farmers.

Of the two Leeds samples secured on December 7th, one was reported tuberculous and the other not tuberculous. They were taken from the same farmer's cans in the same cart in Meanwood Road. The farmer himself retailed, and the samples were taken purposely to ascertain whether or not he was mixing with the rest of his supply the milk from a cow which he had promised to isolate. The result of the test was telephoned to us on the 15th February, 1910. By that time, however, the farmer had given up the farm and destroyed the cow. We had had an opportunity of verifying Mr. Dixon's diagnosis at the knacker's yard, and we were not sorry to find that this man had given up the business, and we do not want to see him any more. The cow referred to is mentioned in Table VIII a. under date November 18th, November 22nd, and December 8th, under No. 17 Headingley.

The next three specimens from Bramhope, Thorner and Drighlington, passing over the three Rawdon samples (controls) already referred to, were originals and negative. The Horsforth sample was from the same farmer whose milk was examined on the 18th August, and the experiment entered as incomplete. The later sample might, therefore, be regarded as a control of the former and incomplete experiment. Showing cases of Scarlet Fever heard of in Leeds during the twenty years, 1890-1909, with the numbers admitted to the city fever hospital and the deaths in the city and in hospital; showing also for biennial periods the relations to the population of the deaths in the city, and the admissions to hospital.

| | Cas | es. † | De | aths. | Per 1,00 (Annual | oo living rates). |
|---------------|----------------|-----------------------|----------------------|------------|---------------------|------------------------|
| | Heard of. | Admitted to hospital. | City. | Hospital. | Deaths in city. | Cases in hospital. |
| 1890 | 337 | 133 | 103 | 23 | | |
| 1891 | 328 | 152 | 66 | 18 | } 0.53 | 0.39 |
| 1892 | 812 | 440 | 74 | 19 | 1 | |
| 1893 | 316 | 188 | 31 | 6 | } 0.14 | 0.83 |
| 1894* 1895 | 967 874 | 453 493 | 52 52 | 18 29 | } 0.13 | 1,51 |
| 1896 1897 | 1,216 1,791 | 441 576 | 7 ² 95 | 20 27 | } 0'21 | 1.50 |
| 1898 1899 | 2,002 1,620 | 532 649 | 121 64 | 2 5 2 I | } 0'22 | 1'43 |
| 1900 1901 | 1,745 2,280 | 722 1,038 | 52 82 | 2 I 39 | } 0.10 | 2.02 |
| 1902 1903 | 1,962 2,465 | 1,041 1,063 | 56 109 | 23 36 | } •0.10 | 2.32 |
| 1904 1905 | 1,295 935 | 850 720 | 59 39 | 34 30 |) o.11 | 1'74 |
| 1906 1907 | 1,029 1,012 | 796 846 | 33 54 | 25 47 | } 0.00 | 1.26 |
| 1908 1909 | 658 1177 | 524 996 | I 4 I 2 | I I I 2 | } 0.03 | 1.22 |

* Notification became compulsory in May, 1894.

F

^{+ &}quot;Cases heard of" does not include one fatal in the third quarter of 1894 (included, however, in the 52 deaths), of which we had no information till we received the Registrar's returns. Similarly one death in 1895, another in 1896, two in 1897, one in 1900, one in 1901, one in 1903, and two in 1906, are included in the death column, but not in that of cases heard of. Before May, 1894, there were, of course, many such.

Vital statistics.

TABLE 12 a.

Showing deaths from Scarlet Fever in Leeds during four periods of ten years each.

| Periods. | | Deaths. | Deaths per 1,000.* | Fall per cent. on rate of preceding period. |
|-------------------|-----|---------|-----------------------|---|
| Ten years 1870-79 | | 3,090 | 1.00 | |
| Ten years 1880-89 | | 2,255 | 0.68 | 38 |
| Ten years 1890-99 | | 725 | 0'19 | 72 |
| Ten years 1900-09 | ••• | 506 | 0.11 | 42 |

* The rate 1'09 is probably somewhat lower than the real rate for the period. It is calculated on an over-estimated population, and should probably be I'II. As, however, the recent populations are mere estimates, the figure has been allowed to stand. The deaths are in each line those given by the Registrar General, which differ slightly in recent years from our own returns. The rates are recalculated from results of last census, as explained at pp. 69-71 of the Annual Report for 1902, where this matter was discussed.

TABLE 12b.

Cases of scarlet fever reported in each quarter since 1894.

| | I. Qu | ARTER. | II. Qu | JARTER. | III. Q | JARTER. | IV. Q | JARTER. | YEAR | TOTAL. |
|---------------|------------|----------|------------|---------|------------|------------|-------------|------------|-------|---------|
| YEAR. | Heard | Hospit- | Heard | Hospit- | Heard | Hospit- | Heard | Hospit- | Heard | Hospit- |
| | of, | alled. | of. | alled. | of. | alled. | of. | alled. | of. | alled. |
| 1895 | 145 | 77 88 | 115 | 70 | 296 | 177 | 318 | 169 | 874 | 493 |
| 1896* | 167 | 176 | 144 | 75 | 373† | 137 | 532 | 141 | 1,216 | 441 |
| 1897 | 399 | | 307 | 139 | 473 | 138 | 612 | 123 | 1,791 | 576 |
| 1898 | 580 | 109 | 521 | 145 | 491 | 123 | 410 | 155 | 2,002 | 532 |
| 1899 | 387 | 151 | 352 | 169 | 411 | 197 | 470 | 132 | 1,620 | 649 |
| 1900 | 340 | 122 | 337 | 145 | 389 | 204 | 679 | 251 | 1,745 | 722 |
| 1901 1902* | 47I 442 | 248 | 538 431 | 255 | 598 465 | 272 279 | 673 624† | 263 312 | 2,280 | 1,038 |
| 1903 | 634 | 252 | 716 | 256 | 612 | 285 | 503 | 270 | 2,465 | 1,063 |
| 1904 | 323 | 220 | 300 | 197 | 320 | 188 | 352 | 245 | 1,295 | 850 |
| 1905 | 284 | 217 | 195 | 148 | 199 | 153 | 257 | 202 | 935 | 720 |
| 1906 | 201 | 148 | 241 | 176 | 312 | 259 | 275 | | 1,029 | 796 |
| 1907 | 214 | 176 | 246 | 201 | 285 | 236 | 267 | 233 | 1,012 | 846 |
| 1908* | 223 | 186 | 192 | 153 | 128† | 97 | 115 | 88 | 658 | 524 |
| 1909 | 166 | 131 | 210 | 184 | 296 | 272 | 505 | 409 | 1,177 | 996 |
| Averages of } | 332 | 168 | 323 | 169 | 377 | 201 | 439 | 214 | 1,471 | 752 |

Deaths in Leeds during twenty years 1890-1909 certified from diphtheria, membranous croup, "croup," and laryngitis with death rates.

| | | Diph- | Mem- | | Laryn- | T | DTALS. |
|-------|-------------|---------|-------------------|----------|------------|---------|---------------------------|
| YEAR. | Population. | theria. | branous Croup. | "Croup." | gitis, &c. | Deaths. | Rate per 1,000 living. |
| 1890* | 363,018 | 24 | - | 32 | 26 | 82 | 0.22 |
| 1891 | 369,034 | 16 | 2 | 29 | 23 | 70 | 0.13 |
| 1892 | 375,081 | 29 | I | 48 | 35 | 113 | 0.30 |
| 1893 | 381,157 | 59 | 7 | 63 | 58 | 187 | 0.49 |
| 1894 | 387,259 | 60 | 15 | 52 | 41 | 168 | 0.44 |
| 1895 | 393,387 | 39 | 30 | 16 | 16 | IOI | 0.26 |
| 1896* | 399,535 | 39 | II | 24 | 20 | 94 | 0.23 |
| 1897 | 405,716 | 51 | 23 | 17 | 24 | 115 | 0.28 |
| 1898 | 411,895 | 203 | 26 | 23 | 19 | 271 | 0.66 |
| 1899 | 418,101 | 299 | 36 | 14 | 24 | 373 | 0.90 |
| 1900 | 424,322 | 235 | 21 | . 6 | 17 | 279 | 0.66 |
| 1901 | 430,575 | 163 | 12 | 18 | 14 | 207 | 0.48 |
| 1902* | 437,036 | 82 | 14 | 6 | 15 | 117 | 0.26 |
| 1903 | 443,559 | 61 | 4 | II | IO | 86 | 0.19 |
| 1904 | 450,142 | 40 | 10 | IO | 17 | 77 | 0.12 |
| 1905 | 456,787 | 38 | 6 | 6 | 8 | 58 | 0.13 |
| 1906 | 463,495 | 76 | 8 | 5 | 17 | 106 | 0.23 |
| 1907 | 470,268 | 66 | 3 | 3 | 10 | 82 | 0.12 |
| 1908* | 477,107 | 49 | I | 2 | 4 | 56 | 0.15 |
| 1909 | 484,012 | 61 | 4 | 5 | IO | 80 | 0.12 |

* 53 week years, the others 52.

Population 1890 to 1900 by interpolation from data of three censuses. Since 1901 by Registrar-General's method of estimation.

Annual, 1909.

COMMON ZYMOTIC DISEASES.

Scarlet fever.—Table 12 shows cases of scarlet fever heard of and admitted to hospital since 1890, with deaths in the City and hospital, and death and admission rates upon the population of the City. While the death rate in the City as a whole has been diminishing the proportion of cases sent to hospital has been increasing.

Table 12a shows the deaths and death rates in decades from 1870 to 1909.

Table 12b shows the cases notified to us in each quarter of the year since 1894, also the numbers admitted to hospital. Before the extension of the hospital many of the cases sent in could not be admitted immediately on receipt of notification for want of room; much of the advantage of isolation was therefore lost.

Diphtheria.—The deaths in Leeds from diphtheria, croup and laryngitis each year since 1890 are shown in table 13, and the death rate from the group in each year. In the first ten years the death rate averaged 0.40, in the second ten years 0.25.

Diarrhæa.—The death rate of 0.23 from diarrhœa is the smallest recorded during the last twenty years.

NOTE TO TABLE 17.

Table 17 contains the deaths at all ages and under certain age groups required in the first eight columns of the Local Government table IV. The information as to localities asked for in that table will be found in table A, where deaths in public institutions have been separated, and in table C, where deaths of Leeds persons in those institutions have been referred to the districts to which they belonged. In the notes to the Local Government table for 1906, the request is made that in regard to the deaths of children under one, the heading diarrhœa should be made to include the whole group of diarrhœal diseases given in their table V., and printed in this report at p. 17 and numbered table 5a. As to do so would interfere with the comparison of table 17 with the same table in previous years, this has not been done. To make table 17 correspond in this respect with table 5a, and thus satisfy the requirements of the note (c) on the Local Government Board's table, it would be necessary to add in column 3 under the headings "diarrhœa" and "enteritis" 9 deaths from gastritis and 3 from gastric catarrh. These deaths are included in our table 5a in the third and fourth lines of the second disease group. The other deaths in that group in the table are included in table 17, column 3, under diarrhœa or enteritis, making, with the addition of the 12 deaths, the total deaths amongst infants under one from the diarrhœal group in both tables 158. These 12 deaths are included under "other causes" in table 17 as printed, and under " diseases of the stomach," &c., in table C.

TABLE 17.

.

Causes of, and ages at, death during year (52 weeks) 1909.

| Causes of Death. | Di | | IN W | | | ICT A | г | QUAR | TERL | SEVE V PERI . AGES | ODS | Deaths |
|---|------------|----------|-------------------|--------------------|---------------------|---------------------|--------------------|------|-----------|--------------------------|---------|-----------------------|
| CAUSES OF DEATH. | Allages. | Under 1. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. | I. | 11. | ш. | 1V. | 1,000 FOR YEAR. |
| Small-pox | | | | | | | | | | | | |
| Measles | 78 | 16 | 59 | 3 | | | | 25 | 13 | 21 | 19 | 0.10 |
| Scarlet fever | 12 | | 5 | 6 | | I | | 4 | 2 | 3 | 3 | 0'02 |
| Whooping-cough | 83 | 41 | 40 | 2 | | | | 24 | 23 | 22 | 14 | 0'17 |
| Diphtheria and membranous croup | 65 | 3 | 35 | 22 | 1 | 4 | | 27 | 15 | II | 12 | 0'13 |
| Croup | 5 | | 4 | I | | | | | 3 | | 2 | 10.0 |
| (Typhus | 2 | | | | | 2 | | | 2 | | | 0.00 |
| Fever Enteric | 40 | | | 6 | 12 | 22 | | 14 | 7 | 6 | 13 | 0.08 |
| Other continued | | | | | | | | | | | | |
| Epidemic influenza | 104 | 2 | 3 | 1 | 5 | 56 | 37 | 67 | 14 | 3 | 1000 | 0'22 |
| Cholera (English) | | | | | | | | | | | | |
| Plague | | | | | | | | | | | | |
| D1 1 | 110 | 86 | 15 | | | 5 | 4 | 9 | 6 | 72 | 23 | 0'23 |
| | 80 | 60 | 12 | 2 | 1 | 4 | 1 | 17 | 13 | 28 | 22 | 0'17 |
| | 19 | | | | 6 | 13 | | 5 | - 3 | 2 | 4 | 0'04 |
| | 13 | 2 | | | | .5 | 2 | 6 | 3 | 2 | 2 | 0.03 |
| Erysipelas | 12 | 2 | | | 2 | 7 | I | 4 | 4 | 3 | I | 0.02 |
| Other septic diseases | 548 | 2 | | 20 | | | 20 | 171 | | 108 | | 1'14 |
| Phthisis | 274 | 78 | 9 85 | | 127 26 | 370 | | | 143 76 | | 68 | |
| Other tubercular diseases | | | | 44 | | 39 | 2 | 52 | | | | 0'57 |
| Cancer, malignant disease | 449 | | | | I | 310 | 138 | | 99 | | | 0.93 |
| Bronchitis | 655 288 | 115 | 57 | 2 | 2 | 211 | 268 | 289 | 123 | 75 | 1000000 | 1.36 |
| Broncho-pneumonia | | 112 | 115 | 8 | 2 | 29 | 22 | 94 | 83 | 1000 | 57 | 0.00 |
| Pneumonia and pleuro-pneu | 00 | 26 | 37 | 12 | 31 | 170 | 54 | 120 | 80 | | | |
| Pleurisy | | ••• | | I | ••• | 15 | 2 | 4 | 8 | 2 | 4 | 0.04 |
| Other diseases of respiratory organs | 91 | 6 | 14 | 6 | 5 | 32 | 28 | 31 | 22 | 15 | | 0'19 |
| Alcoholism | 91 | | *4 | 0 | 2 | 32 | 20 | 31 | 66 | 15 | 23 | 0 19 |
| Cirrhosis of liver | 47 | I | | | | 37 | 9 | 13 | 13 | II | 10 | 0'10 |
| Venereal diseases | 24 | 20 | 2 | | | 2 | | 8 | 6 | I | 9 | 0.02 |
| Premature birth | | 12000 | | | | | | 59 | | | | 0'51 |
| Diseases and accidents of partu- | | 45 | | | | | | 35 | | 00 | 4/ | 5. |
| rition | 1.1 | 17 | | | 6 | 23 | | 13 | 11 | 13 | 9 | 0.10 |
| Heart diseases | 110 | | I | 26 | 39 | | | | | | | |
| Accidents | | | 36 | 26 | | | | | | | | |
| Suicides | 43 | | | | 5 | | | | | - | | 0.00 |
| | 2284 | | | | 10.00 | | | | | | | |
| | - | | | | | | | | | - | | |
| All causes | 6854 | 1350 | 681 | 254 | 345 | 2550 | 1674 | 2118 | 1623 | 1452 | 1661 | 14.51 |
| | 1 | | | | 1 | | | | - | 1 | | 1 |

The deaths of outsiders in the workhouses within the city, which are excluded from the Registrar-General's figures, are included in this table. The diseases from which they died will be found enumerated in table C. As to diarrhoea and enteritis see note.

.

TABLE 18.

| I N. JOAN | All | La ri | - | - | - | | - | - | 1 | - | 1 | | - |
|----------------------------|-----------------|------------------|---------------|----------|----------|----------|-------------|--------------|-----------|-------------|----------|----------|----------|
| Notifiable disease. | ages. | Under 1 year. | 1-2 | 2.3 | 3.4 | 4-5 | 1.5 | 5-10 | 10-15 | 5-15 | 15-20 | 20-25 | 15-25 |
| Small-pox. I. II. | :: | | :: | | | | | | | | | | |
| III. IV. | | | | | | | | | | | | | |
| Totals | | | | | | | | | | | | | |
| Cholera, I. | | | | | | | | | | | | | |
| 11. 111. | 11 | | | | ••• | | | | | | | | 11 |
| Totals | | | | | | | | | | | | | |
| Diphtheria. I. | 278 | 3 | 11 | 11 | 17 | 31 | 70 | 99 | 34 | 133 | 19 | 7 | 26 |
| II. III. | 395 289 | 6 | 12 | 13 7 | 23 18 | 35 21 | 83 52 | 104 71 | 71 48 | 175 119 | 30 38 | 26 18 | 56 56 |
| Totals | 346 1308 | 1 | 9 | 43 | 23 | 30 | 74 279 | 111 385 | 62 215 | 173 600 | 27 | 19 70 | 46 |
| Memb. croup. I. | 3 | | | 1 | 2 | | 3 | | | | | | |
| II. III. | ï | | | | ï | | ï | | | | | | |
| IV. | 7 | 1 | | | 2 | 1 | 3 | 3 | | 3 | | | |
| Totals | 11 | 1 | | 1 | 5 | | 7 | 3 | | 3 | 4 | | |
| Erysipelas. I. II. | 111 77 75 | 52 | 1 | $1 \\ 1$ | 1 | | 3 | 4 2 | 225 | 7 6 7 | 4 2 | 4 6 | 8 10 |
| III. IV. | 96 | 1 2 | ï | ż | 1 | | 13 | 1 | 9 | 10 | 7 | 6 | 8 11 |
| Totals | 359 | 10 | 2 | 4 | 2 | | 8 | 11 | 19 | 30 | 17 | 20 | 37 |
| Scarlet fever. I. II. | 166 210 | 1 | 9 5 | 5 14 | 6 9 | 12 18 | 32 46 | 70 83 | 39 45 | 109 128 | 14 12 | 5 11 | 19 23 |
| III. IV. | 296 505 | 35 | 7 | 10 18 | 25 24 | 23 29 | 65 77 | $130 \\ 240$ | 60 111 | 190 351 | 21 39 | 10 21 | 31 60 |
| Totals | 1177 | 9 | 27 | 47 | 64 | 82 | 220 | 523 | 255 | 778 | 86 | 47 | 133 |
| Typhus fever I. II. | .7 | | | | | | | | ï | ï | ï | | ï |
| III. IV. | | | | | | | | | | | | | |
| Totals | 7 | | | | | | | | 1 | 1 | 1 | | 1 |
| Enteric fever I. | 48 | | | | 2 | 1 | 3 | 3 | 8 | 11 | 9 3 | 57 | 14 |
| | 31 62 | | | ï | 12 | | 2 | 323 | 2 | 4 14 | 13 | 8 | 10 21 |
| Totals | 76 | | $\frac{1}{1}$ | | 5 | - 4 | - 6 - 11 | 6 14 | 11 32 | 46 | 12 37 | 12 32 | 24 69 |
| Relapsing I. | | | | | | | | | | | | | |
| fever. II. III. | | | | | | | | | | • | | | |
| Totals | | | | | | | | | | | | | |
| Continued I. | | | | | | | | | | - | | | |
| fever II. III. | | | | | | | | | | | | | |
| IV. | | | | | | | | | | | | | |
| Totals | | | | | | | | | | | | | |
| Puerperal I. fever. II. | 8 10 | | • • | | | | ** | | | | 1 | 36 | 4 |
| III. IV. | 6 8 | | • • | | | | | ** | ** | | | 3 | 3 |
| Totals | 32 | | | | | | | | | | 1 | 12 | 13 |
| Plague. I. II. | | | | | | | | :: | | | | | |
| III. IV. | | | | | | | | | | | | | |
| Totals | | | - | | | | | | | | | | |

Cases of infectious diseases notified during the year 1909. Cases notified in whole district.

TABLE 18-continued.

Cases of infectious diseases notified during the year 1909. Cases notified in whole district.

| Notifiable disease. | 25-30 | 30-35 | 35-40 | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 25-65 | 65-70 | 70-75 | 75-80 | 80-85 | 85-90 | 90-95 | 95.100 | up- wds. |
|--------------------------------------|----------------------|----------------------|---------------------|--------------------|---------------|------------------|--------------|------------|----------------------|-------------|-------------|-------------|-------|-------|-------|--------|--------------|
| Small-pox. I. II. III. | | ••• | | | | | | | | | | | | | | | |
| IV. Totals | | | | | | | | | | | | | | | | | |
| Cholera. I. II. | | | | | | | | | | | | | | | | | |
| III. IV. | | | | | | | | ••• | | | | | | | | | |
| Totals | | | | | | | | | | | | | | | | | |
| Diphtheria. I. II. III. IV. | 13 20 14 20 | 12 17 11 16 | 5 13 10 10 | 3 12 13 2 | 2432 | 1 5 2 1 | 23 | 313 | 41 75 56 52 | | 4 | 1 | ••• | | ••• | | 5 |
| Totals | 67 | 55 | 38 | 30 | 11 | 9 | 6 | 7 | 224 | | 4 | 1 | | | | | 5 |
| Memb Croup. I. II. III. | | ** | | | | | | | | | | | | | | | |
| IV. Totals | | | | | | | | | | | | | | | | | |
| Erysipelas. I. | 9 | 8 | 93 | 16 | 7 | 12 | 10 | 5 | 76 | 5 | 3 | 1 | 3 | | | | 12 |
| II. III. IV. | 9.000 | 6 11 6 | 3 4 4 | 11 9 8 | 10 8 16 | 219 | 6 12 7 | 633 | 49 51 59 | 1 5 5 | 3 1 4 | 4 1 2 | 1 | ••• | ••• | ••• | 9 7 11 |
| Totals | 23 | 31 | 20 | 44 | 41 | 24 | 35 | 17 | 235 | 16 | 11 | 8 | 4 | | | | 39 |
| Scarlet fever. I. II. III. | 465 | 1 4 1 | 2 | ••• | `i | | | | 5 13 7 | ••• | ••• | | | | | | ••• |
| IV. Totals | 7 22 | 7 | 2 | | 2 | | | | 12 37 | | | | | | | | |
| Typhus fever. I. II. | | | ï | ï | ï | | ï | ï | | | | | | | | | |
| III. IV. | | | | | | | | | | | | | | | | | |
| Totals Enteric fever I. | | 4 | 1 5 | 1 | 1 | | 1 | 1 | 5 | | | | | · | | | |
| II. II. III. IV. | 4 7 7 8 | 71372 | 2 5 11 | 4 1 3 4 | 1 | 1 2 | 1 1 1 | 1 1 | 20 17 25 29 | ••• | | ••• | | ••• | | | |
| Totals | 26 | 16 | 23 | 12 | 4 | 4 | 3 | 3 | 91 | | | | | | | | |
| Relapsing I. fever. 11. 111. | | | | | •• | | | | | | | | | | | | - |
| IV. | | | | | | <u>.</u> . | | | | | | | | | | | |
| Totals Continued I. | | | | | | | | | | | | | | | | | |
| fever. II. III. IV. | | •• | | | | | | | | | ••• | | | | | | |
| Totals | | | | | | | | | | | | | | ** | | | |
| Puerperal I. fever. II. III. | 3 1 3 | 1 2 3 | | ï | | :: | | | 4 4 6 | | | | | | | | |
| IV. Totals | 2 | 7 | <u>i</u> 1 | 1 2 | | | | | 5 | | | | | | | | 11 |
| Plague. I. | | | | | | | | | 19 | | | | | | | | |
| II. III. IV | | | | | | | | | | | | ••• | | | | | |
| Totals | | | | | | | | | | | | | | | | | |

TABLE 19.

Table shewing deaths in the four quarters of 1909, for each Municipal Ward, with the estimated population and the death-rate of the ward for the Year.

| MUNICIPAL WARDS. | Population, estimated to middle of 1909. | First quarter, 1909. | Second quarter, 1909. | Third quarter, 1909. | Fourth quarter, 1909. | Fifty- two weeks, | Death- rate. |
|------------------|---|----------------------------|-----------------------------|----------------------------|-----------------------------|-------------------------|-----------------|
| Central | 19,510 | 69 | 51 | 60 | 49 | 229 | 11.78 |
| North | 49,240 | 194 | 140 | 120 | 124 | 578 | 11.78 |
| North-East | 33,421 | 180 | 123 | 117 | 147 | 567 | 17.02 |
| East | 30,800 | 197 | 137 | 142 | 161 | 637 | 20.75 |
| South | 13,345 | 73 | 80 | 65 | 55 | 273 | 20.53 |
| East Hunslet | 40,465 | 137 | 121 | 119 | 127 | 504 | 12.50 |
| West Hunslet | 34,090 | 155 | 120 | 92 | 110 | 477 | 14.04 |
| Holbeck | 33,372 | 161 | 102 | 90 | 106 | 459 | 13.80 |
| Mill Hill | 6,577 | 29 | 26 | тб | 28 | 99 | 15.10 |
| West | 23,504 | 121 | 107 | 89 | 105 | 422 | 18.02 |
| North-West | 35,759 | 141 | 112 | 82 | 109 | 444 | 12.46 |
| Brunswick | 23,212 | 96 | 70 | 58 | 78 | 302 | 13.05 |
| New Wortley | 18,341 | 76 | 64 | 62 | 58 | 260 | 14:22 |
| Armley & Wortley | 44,735 | 149 | 140 | 96 | 133 | 518 | 11.62 |
| Bramley | 24,570 | 110 | 69 | 76 | 90 | 345 | 14.09 |
| Headingley | 53,071 | 178 | 112 | 121 | 135 | 546 | 10'32 |
| Outsiders | | 52 | 49 | 47 | 46 | 194 | |
| Totals | 484,012 | 2,118 | 1,623 | 1,452 | 1,661 | 6,854 | 14:21 |

The rates are calculated on populations estimated by the Registrar General's method, described at p. 88 of the Annual for 1904.

TABLE 20.

Shewing the number of deaths from certain specific causes and groups of causes in the 52 weeks of 1909 in the Sub-Registration Districts in the City of Leeds. All deaths in public institutions within the City of persons belonging to the City have been referred to the Sub-District to which they belonged.

| | | | | | ıgh. | | | | Cro | OUP. | | seases ages D. | |
|---------------|------------|----------|-------------|-------------|-----------------|----------|-----------|------------|-------------|--------------------------|-----------|--|-------------|
| | Small-pox. | Measles. | Scarlatina. | Diphtheria. | Whooping-cough. | " Fever. | Diarrhea. | All seven. | Membranous. | Other non- spasmodic. | Phthisis. | Influenza and diseases of the air-inassiges other than consumption. | All causes. |
| Leeds, North | | 4 | 3 | IO | 17 | 8 | 15 | 57 | | | 79 | 223 | 869 |
| ,, West | | 10 | 3 | 14 | 5 | 9 | 16 | 57 | | | 124 | 251 | 1230 |
| ", "South-E. | | 12 | I | 2 | 8 | 5 | 17 | 45 | | 2 | 55 | 205 | 752 |
| Hunslet | | 21 | τ | 12 | 21 | 8 | 32 | 95 | 2 | | 79 | 230 | 1073 |
| Holbeck | | 16 | | 3 | 7 | 2 | 11 | 39 | | I | 34 | 123 | 544 |
| Wortley | | 6 | 2 | 6 | 9 | 3 | 11 | 37 | | I | 59 | 164 | 845 |
| Kirkstall | | 8 | I | 4 | 9 | I | 4 | 27 | | 1 | 48 | 110 | 525 |
| Bramley | | | | 3 | I | 2 | 2 | 8 | 2 | | 17 | 54 | 278 |
| Chapeltown | | I | I | 6 | 6 | 4 | 2 | 20 | | | 45 | 109 | 534 |
| Osmondthorpe | | | | | | | | | | | | 3 | ю |
| City of Leeds | | 78 | 12 | 60 | 83 | 42 | 110 | 385 | 4 | 5 | 540 | 1472 | 6660 |

One death from diphtheria, 8 deaths from phthisis, 14 from influenza and diseases of the air-passages other than consumption, and 171 deaths from other causes, occurred in the City of persons not belonging to Leeds; on the other hand 146 deaths occurred during the year of Leeds persons in West Riding Asylums and other public institutions, outside the City. Of these, I death was from whooping cough, I from "fever," I from diarrhœa, 14 were from phthisis, 8 from the lung groups, and 121 from other causes not given in table.

TABLE 21.

Shewing the mortality of the Sub-Districts stated in deaths per 1,000 of the population as estimated to the middle of 1909.

| | | | | | ġ | | | | CRO | OUP. | | 8es 18, | |
|---------------|------------|----------|-------------|-------------|-----------------|----------|-----------|------------|-------------|--------------------------|-----------|---|-------------|
| | Small-pox. | Measles. | Scarlatina. | Diphtheria. | Whooping-cough. | "Fever." | Diarrhœa. | All seven. | Membranous. | Other non- spasmodic. | Phthisis. | Influenza and diseases of the air-pasages, other than consumption. | All causes. |
| Leeds, North | | 0.02 | 0.02 | 0.12 | 0.29 | 0.14 | 0.50 | 0.92 | | | 1.32 | 3.81 | 14.85 |
| ,, West | | 0'12 | 0.04 | 0.10 | 0.06 | 0.11 | 0.19 | 0.62 | | | 1.42 | 2.94 | 14.39 |
| ,, S. E. | | 0'34 | 0.03 | 0.06 | 0.53 | 0.14 | 0.48 | 1.58 | | 0.06 | 1.26 | 5.82 | 21.33 |
| Hunslet | | 0.56 | 10.0 | 0.12 | 0.56 | 0.10 | 0.40 | 1.19 | 0.03 | | 0.99 | 2.89 | 13.47 |
| Holbeck | | 0.43 | | 0.08 | 0.10 | 0.02 | 0.30 | 1.02 | | 0.03 | 0.01 | 3.31 | 14.63 |
| Wortley | | 0.09 | 0.03 | 0.09 | 0.13 | 0.04 | 0.19 | 0.22 | | 0.01 | 0.87 | 2.42 | 12.45 |
| Kirkstall | | 0.19 | 0.05 | 0.08 | 0.12 | 0.05 | 0.08 | 0.25 | | 0.05 | 0'93 | 2.14 | 10.30 |
| Bramley | | | | 0.12 | 0.02 | 0.10 | 0.10 | 0.41 | 0.10 | | 0.82 | 2.27 | 14.27 |
| Chapeltown | | 0.02 | 0.05 | 0.13 | 0.13 | 0.08 | 0.04 | 0.45 | | | 0.96 | 2.31 | 11.34 |
| Osmondthrp | | | | | | | | | | | | 8.88 | 29.60 |
| City of Leeds | | 0.19 | 0.05 | 0'12 | 0.12 | 0.0∂ | 0.53 | 0.80 | 0.01 | 0.01 | 1.15 | 3.02 | 13.81 |

One death from diphtheria, 8 deaths from phthisis, 14 from influenza and diseases of the air-passages other than consumption, and 171 deaths from other causes not mentioned in the table, occurred in the City of persons not belonging to Leeds.

For provisional populations used see table A. The value of individual rates is exceedingly small. See text pp. 13, 39.41, &c.

TABLE 21a. NORTH LEEDS.

Shewing for each year from 1890 to 1909 inclusive the births registered, the birth rate per thousand per annum, the deaths at all ages, and the death rate per thousand living, the deaths under one year of age and the ratio to the thousand births in the same period. Shewing also the average in these respects of the ten years previous to 1909.

| YEAR. | Population estimated to middle of each year. | Births registered. | Birth rate per 1,000 per annum. | Deaths at all ages. | Death rate per 1,000 per annum. | Deaths under one year. | Death rate under one year per 1,000 births registered. |
|-------------------------------------|---|-----------------------|--|------------------------|--|------------------------------|---|
| 1890* | 60,436 | 2,345 | 38.2 | 1,495 | 24.4 | 387 | 165 |
| 1891 | 60,563 | 2,401 | 39.8 | 1,619 | 26.8 | 464 | 193 |
| 1892 | 60,564 | 2,405 | 39.8 | 1,355 | 22.4 | 422 | 175 |
| 1893 | 60,526 | 2,300 | 38.1 | 1,544 | 25.6 | 491 | 213 |
| 1894 | 60,456 | 2,310 | 38.3 | 1,273 | 21'1 | 398 | 172 |
| 1895 | 60,331 | 2,343 | 39.0 | 1,381 | 23.0 | 431 | 184 |
| 1896* | 60,176 | 2,318 | 37.9 | 1,298 | 21.2 | 410 | 177 |
| 1897 | 59,997 | 2,338 | 39°I | 1,436 | 24.0 | 456 | 195 |
| 1898 | 59,925 | 2,261 | 37.9 | 1,307 | 21.9 | 392 | 173 |
| 1899 | 59,658 | 2,234 | 37.6 | 1,260 | 21.2 | 356 | 159 |
| 1900 | 59,475 | 2,147 | 36.2 | 1,290 | 21.8 | 353 | 164 |
| 1901 | 59,257 | 2,096 | 35.5 | I,324 | 22.4 | 394 | 188 |
| 1902* | 59,166 | 2,100 | 34.9 | 1,161 | 19.3 | 325 | 155 |
| 1903 | 59,082 | 2,057 | 34.9 | 1,090 | 18.2 | 319 | 155 |
| 1904 | 59,004 | 1,875 | 31.9 | 1,149 | 19.5 | 356 | 190 |
| 1905 | 58,932 | 1,870 | 31.8 | 1,040 | 17.7 | 303 | 162 |
| 1906 | 58,866 | 1,758 | 30.0 | 1,010 | 17.2 | 281 | 160 |
| 1907 | 58,806 | 1,623 | 27.7 | 946 | 16.1 | 235 | 145 |
| 1908* | 58,752 | 1,651 | 27.7 | 990 | 16.9 | 249 | 151 |
| Average of years 1899 to 1908 | 59,100 | 1,941 | 32.8 | 1,126 | 19.0 | 317 | 163 |
| 1909 | 58.704 | 1,461 | 25.0 | 869 | 14.9 | 190 | 130 |

* The years 1890, 1896, 1902, 1908, were 53 week years, all the others 52.

Births in workhouses have been ascribed to the districts in which they occurred. The deaths in workhouses and other public institutions have been transferred to the districts to which the patients belonged, those from outside the City having been entirely omitted. Deaths of Leeds people dying outside the City have not been added, as our information was generally insufficient to fix the district to which they should be referred. Information about such is to be found in table D, part 2. For the method of obtaining the populations see Annual 1906, page 109, and the annual report for 1901.

TABLE 21b.

WEST LEEDS.

Shewing for each year from 1890 to 1909 inclusive the births registered, the birth rate per thousand per annum, the deaths at all ages, and the death rate per thousand living, the deaths under one year of age and the ratio to the thousand births in the same period. Shewing also the average in these respects of the ten years previous to 1909.

| Year. | Population estimated to middle of each year. | Births registered. | Birth rate per 1,000 per annum. | Deaths at all ages. | Death rate per 1,000 per annum. | Deaths under one year. | Death rate under one year per 1,000 births registered. |
|--|--|--|--|--|--|--|---|
| 1890* 1891 1892 1893 1894 1895 1896* 1897 1898 | 82,907 83,558 83,898 84,157 84,371 84,519 84,545 84,545 84,519 84,415 | 2,394 2,417 2,321 2,270 2,261 2,166 2,253 2,180 2,339 | 28.4 29.0 27.8 27.1 26.9 25.7 26.2 25.9 27.8 | 1,774 1,726 1,573 1,735 1,385 1,675 1,534 1,620 1,683 | 21 · 1 20 · 7 18 · 8 20 · 7 16 · 5 19 · 9 17 · 9 19 · 2 20 · 0 | 389 445 408 453 327 436 387 427 439 | 162 184 176 200 145 201 172 196 188 |
| 1899 1900 1901 1902* 1903 1904 1905 1906 1907 1908* | 84,499 84,455 84,374 84,517 84,670 84,832 85,005 85,186 85,376 85,576 | 2,085 2,214 2,145 2,186 1,994 1,921 1,905 1,869 1,809 1,975 | 24.8 26.3 25.5 25.5 23.6 22.7 22.5 22.0 21.3 22.7 | 1,548 1,662 1,631 1,455 1,332 1,473 1,290 1,388 1,328 1,312 | 18.4 19.7 19.4 16.9 15.8 17.4 15.2 16.4 15.6 15.1 | 378 427 398 347 304 334 285 302 220 247 | 181 193 186 159 152 174 150 162 122 125 |
| Average of years 1899 to 1908 IQ00 | 84,849 85,785 | 2,010 | 23.7 | I,442 I,230 | 17°0 14°4 | 324 226 | 161 121 |

* The years 1890, 1896, 1902, 1908, were 53 week years, all the others 52.

Births in workhouses have been ascribed to the districts in which they occurred. The deaths in workhouses and other public institutions have been transferred to the districts to which the patients belonged, those from outside the City having been entirely omitted. Deaths of Leeds people dying outside the City have not been added, as our information was generally insufficient to fix the district to which they should be referred. Information about such is to be found in table D, part 2. For the method of obtaining the populations see Annual 1906, page 109, and the annual report for 1901.

TABLE 21 c.

SOUTH-EAST LEEDS.

Shewing for each year from 1890 to 1909 inclusive the births registered, the birth rate per thousand per annum, the deaths at all ages, and the death rate per thousand living, the deaths under one year of age and the ratio to the thousand births in the same period. Shewing also the average in these respects of the ten years previous to 1909.

| YEAR. | Population estimated to middle of each year. | Births registered. | Birth rate per 1,000 per annum. | Deaths at all ages. | Death rate per 1,000 per annum. | Deaths under one year. | Death rate under one year per 1,000 births registered. |
|--|--|--|--|--|--|--|---|
| 1890* 1891 1892 1893 1894 1895 1896* 1897 1898 | 33,147 33,363 33,502 33,629 33,736 33,865 33,942 34,022 34,104 | I,279 I,24I I,3I0 I,208 I,240 I,180 I,146 I,183 I,222 | 38.0 37.3 39.2 36.0 35.0 35.0 33.2 34.9 36.0 | 922 1,063 814 1,022 771 836 834 834 896 850 | 27.4 32.0 24.4 30.5 22.9 24.8 24.2 26.4 25.0 | 255 293 266 307 218 269 213 284 282 | 199 236 203 254 176 228 186 240 231 |
| 1899 1900 1901 1902* 1903 1904 1905 1906 1907 1908* | 34,161 34,235 34,327 34,444 34,564 34,688 34,817 34,949 35,085 35,226 | I,207 I,221 I,100 I,227 I,258 I,254 I,235 I,240 I,211 I,220 | 35.5 35.8 32.2 35.1 36.5 36.3 35.6 35.6 35.6 34.6 34.1 | 824 876 881 819 801 928 771 844 804 871 | 24.2 25.7 25.8 23.4 23.3 26.8 22.2 24.2 23.0 24.3 | 241 284 288 255 233 294 251 233 213 248 | 200 233 262 208 185 234 203 188 176 203 |
| Average of years 1899 to 1908 IQOQ | 34,650 | 1,217 1,132 | 35°I | 842 752 | 24.3 | 254 173 | 209 153 |

* The years 1890, 1896, 1902, 1908, were 53 week years, all the others 52.

Births in workhouses have been ascribed to the districts in which they occurred. The deaths in workhouses and other public institutions have been transferred to the districts to which the patients belonged, those from outside the City having been entirely omitted. Deaths of Leeds people dying outside the City have not been added, as our information was generally insufficient to fix the district to which they should be referred. Information about such is to be found in table D, part 2. For the method of obtaining the populations see Annual 1906, page 109, and the annual report for 1901.

HUNSLET.

Shewing for each year from 1890 to 1909 inclusive the births registered, the birth rate per thousand per annum. the deaths at all ages, and the death rate per thousand living, the deaths under one year of age and the ratio to the thousand births in the same period. Shewing also the average in these respects of the ten years previous to 1909.

| YEAR. | Population estimated to middle of each year. | Births registered. | Birth rate per 1,000 per annum. | Deaths at all ages. | Death rate per 1,000 per annum. | Deaths under one year. | Death rate under one year per 1,000 births registered. |
|---|---|-----------------------|--|------------------------|--|------------------------------|---|
| 1890* | 57,042 | 2,127 | 36.7 | I,393 | 24.0 | 410 | 193 |
| 1891 | 58,515 | 2,231 | 38.3 | I,307 | 22.4 | 380 | 170 |
| 1892 | 59,734 | 2,187 | 36.7 | I,177 | 19.8 | 393 | 180 |
| 1893 | 60,903 | 2,203 | 36.3 | I,347 | 22.2 | 482 | 219 |
| 1894 | 62,105 | 2,171 | 35.1 | I,046 | 16.9 | 328 | 151 |
| 1895 | 63,290 | 2,190 | 34.7 | I,314 | 20.8 | 446 | 204 |
| 1896* | 64,414 | 2,141 | 32.7 | I,273 | 19.5 | 380 | 177 |
| 1897 | 64,894 | 2,292 | 35.4 | I,215 | 18.8 | 436 | 190 |
| 1898 | 66,086 | 2,198 | 33.4 | I,149 | 17.4 | 401 | 182 |
| 1899 | 67,241 | 2,271 | 33.9 | 1,264 | 18.9 | 432 | 190 |
| 1900 | 68,329 | 2,296 | 33.7 | 1,481 | 21.7 | 450 | 196 |
| 1901 | 69,383 | 2,401 | 34.7 | 1,347 | 19.5 | 461 | 192 |
| 1902* | 70,666 | 2,340 | 32.6 | 1,287 | 17.9 | 411 | 176 |
| 1903 | 71,959 | 2,282 | 31.8 | 1,120 | 15.6 | 387 | 170 |
| 1904 | 73,262 | 2,264 | 31.0 | 1,344 | 18.4 | 408 | 180 |
| 1905 | 74,576 | 2,140 | 28.8 | 1,080 | 14.5 | 342 | 160 |
| 1906 | 75,901 | 2,143 | 28.3 | 1,244 | 16.5 | 375 | 175 |
| 1907 | 77,237 | 1,994 | 25.9 | 1,147 | 14.9 | 278 | 139 |
| 1908* | 78,584 | 2,056 | 25.8 | 1,176 | 14.7 | 331 | 161 |
| Average of years 1899 to 1908 1909 | 72,714 | 2,219 1,861 | 30.5 | I,249 I,073 | 17.2 | 388 252 | 175 135 |

* The years 1890, 1896, 1902, 1908, were 53 week years, all the others 52.

Births in workhouses have been ascribed to the districts in which they occurred. The deaths in workhouses and other public institutions have been transferred to the districts to which the patients belonged, those from outside the City having been entirely omitted. Deaths of Leeds people dying outside the City have not been added, as our information was generally insufficient to fix the district to which they should be referred. Information about such is to be found in table D, part 2. For the method of obtaining the populations see Annual 1906, page 109, and the annual report for 1901.

[Tables 21a to 21k contain the information asked for by the Local Government Board in their table II.]

HOLBECK.

Shewing for each year from 1890 to 1909 inclusive the births registered, the birth rate per thousand per annum, the deaths at all ages, and the death rate per thousand living, the deaths under one year of age and the ratio to the thousand births in the same period. Shewing also the average in these respects of the ten years previous to 1909.

| YEAR. | Population estimated to middle of each year. | Births registered. | Birth rate per 1,000 per annum. | Deaths at all ages. | Death rate per 1,000 per annum. | Deaths under one year. | Death rate under one year per 1,000 births registered. |
|-------------------------------------|---|-----------------------|--|------------------------|--|------------------------------|---|
| 1890* | 23,168 | 798 | 33.9 | 568 | 24.1 | 145 | 182 |
| 1891 | 23,818 | 800 | 33.7 | 537 | 22.6 | 134 | 168 |
| 1892 | 24,410 | 837 | 34.4 | 522 | 21.5 | 133 | 159 |
| 1893 | 25,266 | 806 | 32.0 | 563 | 22.4 | 164 | 203 |
| 1894 | 26,035 | 866 | 33.4 | 497 | 19.5 | 163 | 188 |
| 1895 | 26,860 | 916 | 34.2 | 587 | 21.9 | 187 | 204 |
| 1896* | 27,642 | 913 | 32.2 | 544 | 19.4 | 155 | 170 |
| 1897 | 29,026 | 997 | 34.5 | 602 | 20.8 | 213 | 214 |
| 1898 | 29,759 | 1,008 | 34.0 | 584 | 19.7 | 202 | 200 |
| 1899 | 30,425 | 1,063 | 35.1 | 674 | 22.2 | 180 | 169 |
| 1900 | 31,074 | 1,069 | 34.5 | 640 | 20.7 | 208 | 195 |
| 1901 | 31,741 | 1,055 | 33.4 | 679 | 21.5 | 221 | 209 |
| 1902* | 32,421 | 1,106 | 33.0 | 589 | 17.9 | 187 | 169 |
| 1903 | 33,105 | 1,103 | 33.4 | 609 | 18.2 | 191 | 173 |
| 1904 | 33,795 | 1,108 | 32.9 | 630 | 18.2 | 197 | 178 |
| 1905 | 34,489 | 1,075 | 31.3 | 594 | 17.3 | 158 | 147 |
| 1906 | 35,189 | 1,007 | 28.7 | 595 | 17.0 | 185 | 184 |
| 1907 | 35,893 | 1,055 | 29.5 | 537 | 15.0 | 141 | 134 |
| 1908* | 36,604 | 1,029 | 27.7 | 637 | 17.1 | 139 | 135 |
| Average of years 1899 to 1908 | 33,474 | 1,067 | 31.9 | 618 | 18.5 | 181 | 169 |
| 1909 | 37,320 | 1,004 | 27.0 | 544 | 14.6 | 118 | 118 |

* The years 1890, 1896, 1902, 1908, were 53 week years, all the others 52.

Births in workhouses have been ascribed to the districts in which they occurred. The deaths in workhouses and other public institutions have been transferred to the districts to which the patients belonged, those from outside the City having been entirely omitted. Deaths of Leeds people dying outside the City have not been added, as our information was generally insufficient to fix the district to which they should be referred. Information about such is to be found in table D, part 2. For the method of obtaining the populations see Annual 1906, page 109, and the annual report for 1901.

WORTLEY.

Shewing for each year from 1890 to 1909 inclusive the births registered, the birth rate per thousand per annum, the deaths at all ages, and the death rate per thousand living, the deaths under one year of age and the ratio to the thousand births in the same period. Shewing also the average in these respects of the ten years previous to 1909.

| Year. | Population estimated to middle of each year. | Births registered. | Birth rate per 1,000 per annum. | Deaths at all ages. | Death rate per 1,000 per annum. | Deaths under one year. | Death rate under one year per 1,000 births registered. |
|--|--|--|--|--|--|--|---|
| 1890* 1891 1892 1893 1894 1895 1896* 1897 1898 | 48,631 49,722 50,815 51,868 52,943 54,004 55,008 55,969 56,948 | 1,699 1,658 1,658 1,658 1,702 1,662 1,723 1,765 1,755 | 34.4 33.5 33.2 32.1 32.3 30.9 30.8 31.6 30.9 | 1,015 1,070 954 996 925 1,054 950 1,028 1,108 | 20.5 21.6 18.8 19.3 17.5 19.6 17.0 18.4 19.5 | 277 271 279 319 274 311 316 299 325 | 163 163 166 192 161 187 183 169 185 |
| 1899 1900 1901 1902* 1903 1904 1905 1906 1907 1908* | 57,916 58,770 59,585 60,618 61,660 62,710 63,769 64,837 65,915 67,002 | 1,777 1,805 1,790 1,863 1,760 1,666 1,653 1,616 1,509 1,497 | 30.8 30.8 30.1 30.3 28.6 26.7 26.0 25.0 23.0 22.0 | 1,108 1,143 1,045 1,049 1,010 1,100 943 917 974 948 | 19°2 19°5 17°6 17°0 16°4 17°6 14°8 14°8 14°2 14°8 13°9 | 338 309 315 317 269 292 245 225 206 189 | 190 171 176 170 153 175 148 139 137 126 |
| Average of years 1899 to 1908 1909 | 62,278 68,099 | 1,694 1,356 | 27°2 20°0 | 1,024 845 | 16·4 | 271 175 | 160 129 |

* The years 1890, 1896, 1902, 1908, were 53 week years, all the others 52.

Births in workhouses have been ascribed to the districts in which they occurred. The deaths in workhouses and other public institutions have been transferred to the districts to which the patients belonged, those from outside the City having been entirely omitted. Deaths of Leeds people dying outside the City have not been added, as our information was generally insufficient to fix the district to which they should be referred. Information about such is to be found in table D, part 2. For the method of obtaining the populations see Annual 1906, page 109, and the annual report for 1901.

KIRKSTALL.

Shewing for each year from 1890 to 1909 inclusive the births registered, the birth rate per thousand per annum, the deaths at all ages, and the death rate per thousand living, the deaths under one year of age and the ratio to the thousand births in the same period. Shewing also the average in these respects of the ten years previous to 1909.

| YEAR. | Population estimated to middle of each year. | Births registered. | Birth rate per 1,000 per annum. | Deaths at all ages. | Death rate per 1,000 per annum. | Deaths under one year. | Death rate under one year per 1,000 births registered. |
|-------------------------------------|---|-----------------------|--|------------------------|--|------------------------------|---|
| 1890* | 29,307 | 923 | 31.0 | 543 | 18.2 | 147 | 159 |
| 1891 | 30,243 | 908 | 30°I | 517 | 17.2 | 125 | 138 |
| 1892 | 31,538 | 926 | 29.5 | 420 | 13.4 | 98 | 106 |
| 1893 | 32,787 | 994 | 30.4 | 605 | 18.5 | 177 | 178 |
| 1894 | 34,063 | 946 | 27.9 | 471 | 13.9 | 120 | 127 |
| 1895 | 35,326 | 1,039 | 29.5 | 561 | 15.9 | 179 | 172 |
| 1896* | 36,510 | I,040 | 28.0 | 537 | 14.5 | 118 | 113 |
| 1897 | 37,639 | 1,026 | 27.4 | 576 | 15.4 | 153 | 149 |
| 1898 | 38,779 | 1,081 | 28.0 | 548 | 14.2 | 159 | 147 |
| 1899 | 39,875 | 1,067 | 26.9 | 602 | 15.1 | 148 | 139 |
| 1900 | 40,889 | 1,085 | 26.6 | 661 | 16.2 | 191 | 176 |
| 1901 | 41,859 | 1,027 | 24.6 | 535 | 12.8 | 148 | 144 |
| 1902* | 43,055 | 1,098 | 25'I | 560 | 12.8 | II2 | 102 |
| 1903 | 44,258 | 1,101 | 25.0 | 526 | 11.0 | 124 | 113 |
| 1904 | 45,468 | 1,069 | 23.6 | 551 | 12.2 | 143 | 134 |
| 1905 | 46,686 | 981 | 2I'I | 511 | <i>II</i> .0 | 119 | 121 |
| 1906 | 47,911 | I,020 | 21.4 | 513 | 10.2 | 99 | 97 |
| 1907 | 49,144 | 962 | 19.6 | 556 | 11.4 | 81 | 84 |
| 1908* | 50,385 | 999 | 19.2 | 542 | 10.0 | 100 | 100 |
| Average of years 1869 to 1998 | 44,953 | 1,041 | 23.1 | 556 | 12.4 | 127 | 122 |
| 1909 | 51,635 | 944 | 18.3 | 525 | 10.2 | 84 | 89 |

* The years 1890, 1896, 1902, 1908, were 53 week years, all the others 52.

Births in workhouses have been ascribed to the districts in which they occurred. The deaths in workhouses and other public institutions have been transferred to the districts to which the patients belonged, those from outside the City having been entirely omitted. Deaths of Leeds people dying outside the City have not been added, as our information was generally insufficient to fix the district to which they should be referred. Information about such is to be found in table D, part 2. For the method of obtaining the populations see Annual 1906, page 109, and the annual report for 1901.

BRAMLEY.

Shewing for each year from 1890 to 1909 inclusive the births registered, the birth rate per thousand per annum, the deaths at all ages, and the death rate per thousand living, the deaths under one year of age and the ratio to the thousand births in the same period. Shewing also the average in these respects of the ten years previous to 1909.

| YEAR. | Population estimated to middle of each year. | Births registered. | Birth rate per 1,000 per annum. | Deaths at all ages. | Death rate per 1,000 per annum. | Deaths under one year. | Death rate under one year per 1,000 births registered. |
|-------------------------------------|---|-----------------------|--|------------------------|--|------------------------------|---|
| 1890* | 14,526 | 453 | 30.7 | 338 | 22.9 | 78 | 172 |
| 1891 | 14,867 | 497 | 33.5 | 260 | 17.5 | 50 | 101 |
| 1892 | 15,203 | 460 | 30.4 | 256 | 16.9 | 60 | 130 |
| 1893 | 15,515 | 462 | 29.9 | 312 | 20.2 | 89 | 193 |
| 1894 | 15,820 | 506 | 32.1 | 215 | 13.6 | 66 | 130 |
| 1895 | 16,109 | 468 | 29.2 | 273 | 17.0 | 70 | 150 |
| 1896* | 16,351 | 481 | 29.0 | 280 | 16.9 | 82 | 170 |
| 1897 | 16,568 | 483 | 29.3 | 273 | 16.5 | 71 | 147 |
| 1898 | 16,798 | 444 | 26.5 | 298 | 17.8 | 85 | 191 |
| 1899 | 17,003 | 496 | 29.3 | 315 | 18.6 | 56 | 113 |
| 1900 | 17,188 | 449 | 26.2 | 262 | 15.3 | 66 | 147 |
| 1901 | 17,365 | 479 | 27.7 | 256 | 14.8 | 78 | 163 |
| 1902* | 17,628 | 456 | 25.5 | 274 | 15.3 | 59 | 129 |
| 1903 | 17,895 | 491 | 27.5 | 259 | 14.5 | 56 | 114 |
| 1904 | 18,164 | 470 | 26.0 | 290 | 16.0 | 68 | 145 |
| 1905 | 18,435 | 459 | 25.0 | 246 | 13.4 | 47 | 102 |
| 1906 | 18,709 | 465 | 24.9 | 233 | 12.5 | 44 | 95 |
| 1907 | 18,986 | 458 | 24.2 | 260 | 13.7 | 58 | 127 |
| 1908* | 19,265 | 476 | 24.3 | 276 | 14.1 | 36 | 76 |
| Average of years 1899 to 1908 | 18,064 | 470 | 26.0 | 267 278 | 14·8 14·3 | 57 40 | 121 99 |

* The years 1890, 1896, 1902, 1908, were 53 week years, all the others 52:

Births in workhouses have been ascribed to the districts in which they occurred. The deaths in workhouses and other public institutions have been transferred to the districts to which the patients belonged, those from outside the City having been entirely omitted. Deaths of Leeds people dying outside the City have not been added, as our information was generally insufficient to fix the district to which they should be referred. Information about such is to be found in table D, part 2. For the method of obtaining the populations see Annual 1906, page 109, and the annual report for 1901.

TABLE 21 i. CHAPELTOWN.

Shewing for each year from 1890 to 1909 inclusive the births registered, the birth rate per thousand per annum, the deaths at all ages, and the death rate per thousand living, the deaths under one year of age and the ratio to the thousand births in the same period. Shewing also the average in these respects of the ten years previous to 1909.

| Year. | Population estimated to middle of each year. | Births registered. | Birth rate per 1,000 per annum. | Deaths at all ages. | Death rate per 1,000 per annum. | Deaths under one year. | Death rate under one year per 1,000 births registered. |
|-------------------------------------|---|-----------------------|--|------------------------|--|------------------------------|---|
| 1890* | 13,420 | 308 | 22.6 | 185 | 13.6 | 32 | 104 |
| 1891 | 13,956 | 373 | 26.8 | 180 | 12.0 | 50 | 134 |
| 1892 | 14,994 | 403 | 27.0 | 201 | 13.4 | 49 | 122 |
| 1893 | 16,089 | 438 | 27.3 | 234 | 14.6 | 55 | 126 |
| 1894 | 17,319 | 488 | 28.3 | 203 | 11.8 | 47 | 96 |
| 1895 | 18,677 | 500 | 26.9 | 250 | 13.4 | 49 | 98 |
| 1896* | 20,546 | 552 | 26.4 | 261 | 12.2 | 56 | IOI |
| 1897 | 22,686 | 638 | 28.2 | 321 | 14.2 | 106 | 166 |
| 1898 | 24,690 | 654 | 26.6 | 314 | 12.8 | 82 | 125 |
| 1899 | 26,936 | 735 | 27.4 | 322 | 12.0 | 82 | II2 |
| 1900 | 29,524 | 802 | 27.3 | 416 | 14°1 | 98 | 122 |
| 1901 | 32,306 | 796 | 24.7 | 409 | 12.7 | II4 | 143 |
| 1902* | 34,148 | 860 | 24.8 | 403 | 11.6 | 89 | 103 |
| 1903 | 35,998 | 94I | 26.2 | 396 | II'O | 100 | 106 |
| 1904 | 37,856 | 930 | 24.7 | 454 | 12.0 | 106 | <i>II4</i> |
| 1905 | 39,720 | 1,016 | 25.7 | 465 | 11.8 | 113 | III |
| 1906 | 41,594 | 964 | 23.3 | 471 | <i>II</i> '4 | 82 | 85 |
| 1907 | 43,477 | 1,046 | 24°I | 480 | II.I | 89 | 85 |
| 1908* | 45,369 | 1,098 | 23.8 | 547 | 11.9 | III | IOI |
| Average of years 1899 to 1908 | 36,693 | 919 | 25.0 | 436 | 11.0 | 98 | 107 |
| 1909 | 47,270 | 952 | 20.2 | 534 | II · 3 | 85 | 89 |

* The years 1890, 1896, 1902, 1908, were 53 week years, all the others 52.

Births in workhouses have been ascribed to the districts in which they occurred. The deaths in workhouses and other public institutions have been transferred to the districts to which the patients belonged, those from outside the City having been entirely omitted. Deaths of Leeds people dying outside the City have not been added, as our information was generally insufficient to fix the district to which they should be referred. Information about such is to be found in table D, part 2. For the method of obtaining the populations see Annual 1906, page 109, and the annual report for 1901.

[Tables 21a to 21k contain the information asked for by the Local Government Board in their table II.]

Η

TABLE 21k.

OSMONDTHORPE.

Shewing for each year from 1890 to 1909 inclusive the births registered, the birth rate per thousand per annum, the deaths at all ages, and the death rate per thousand living, the deaths under one year of age and the ratio to the thousand births in the same period. Shewing also the average in these respects of the ten years previous to 1909.

| Year. | Population estimated to middle of each year. | Births registered. | Birth rate per 1,000 per annum. | Deaths at all ages. | Death rate per 1,000 per annum. | Deaths under one year. | Death rate under one year per 1,000 births registered. |
|-------------------------------------|---|-----------------------|--|------------------------|--|------------------------------|---|
| 1890* | 434 | IO | 22.7 | 56 | II'3 | I | 100 |
| 1891 | 429 | 12 | 28°I | 6 | 14.0 | | |
| 1892 | 423 | 14 | 33.2 | 2 | 4.7 | | |
| 1893 | 417 | 9 | 21.7 | 7 | 16.8 | I | III |
| 1894 | 411 | 12 | 29.3 | 7 | 17°I | I | 83 |
| 1895 | 406 | 14 | 34.6 | 3 | 7.4 | I | 71 |
| 1896* | 401 | 6 | 14.7 | IO | 24.6 | 2 | 333 |
| 1897 | 396 | 10 | 25.3 | 6 | 15.2 | 2 | 200 |
| 1898 | 391 | 9 | 23°I | 13 | 33.4 | 2 | 222 |
| 1899 | 387 | 4 | 10.4 | 7 | 18.1 | I | 250 |
| 1900 | 383 | 3 | 7.9 | 4 | 10.2 | I | 333 |
| 1901 | 378 | 9 | 23.9 | 56 | 13.3 | | |
| 1902* | 373 | 9 | 23.8 | 6 | 15.8 | 4 | 444 |
| 1903 | 368 | 9 | 24.5 | 7 | 19'I | 2 | 222 |
| 1904 | 363 | 4 | II'I | . 4 | II'I | | |
| 1905 | 358 | 3 | 8.4 | 6 | 16.8 | | |
| 1906 | 353 | II | 31.3 | 7 | 19.0 | 2 | 182 |
| 1907 | 349 | II | 31.6 | 7 | 20°I | 2 | 182 |
| 1908* | 344 | 6 | 17.2 | 7 | 20.0 | 2 | 333 |
| Average of years 1899 to 1908 | 366 | 7 | 18.8 | 6 | 16.4 | I | 203 |
| 1909 | 339 | 16 | 47.4 | IO | 29.6 | | |

* The years 1890, 1896, 1902, 1908, were 53 week years, all the others 52.

Births in workhouses have been ascribed to the districts in which they occurred. The deaths in workhouses and other public institutions have been transferred to the districts to which the patients belonged, those from outside the City having been entirely omitted. Deaths of Leeds people dying outside the City have not been added, as our information was generally insufficient to fix the district to which they should be referred. Information about such is to be found in table D, part 2. For the method of obtaining the populations see Annual 1906, page 109, and the annual report for 1901. The population since 1901 is probably underestimated.

LEEDS, 1909.

FROM PRELIMINARY REPORT.

In the 52 weeks ended 1st January, 1910, the following births and deaths were registered, and cases of infectious diseases reported.

| Population estimated by the Registrar General | 484,012 |
|---|---------|
| Acreage | 21,572 |
| Births registered 11,002 Birth rate per thousand | 22.8 |
| Average birth-rate, ten years, 1899-1908 ‡ | 28.1 |
| Deaths (all ages) 6,854 Death-rate per thousand | 14.3 |
| (R.G. 6,784 = 14.06).* | |
| Average death-rate, ten years, 1899-1908* | 173 |
| Deaths (under 1 year) 1,350 Ratio to 1,000 births | 123 |

| | | Total deaths. | Death rate | per thousand. | Cases notified. |
|--|------|---------------|------------|---------------|--------------------|
| | | (52 weeks). | 1909. | 1899-1908. | 1909. |
| | | | | ++ | |
| 1. Small-pox | | | | 0.01 | |
| 2. Measles | | 78 | 0'16 | 0'44 | 51 |
| 3. Scarlatina | | 12 | 0'02 | 0'13 | 1,177 |
| ,∫Diphtheria | | 61 | 0.13 | 0.52 | 1,308 |
| 4. (Memb. croup | | 4 | 0.01 | 0'03 | II |
| Other croups | | 5 | 10.0 | 0'02 | 2 |
| 5. Whooping cough | | 83 | 0'17 | 0.32 | |
| Typhus | | 2 | 0 00 | 0'00 | 7 |
| 5. Typhoid | | 40 | 0.08 | 0.13 | 217 |
| Ctd. fever | | | | 0.00 | |
| Puer. septicæmia | | 19 | 0.04 | 0.03 | 32 |
| Erysipelas | | 13 | 0.03 | 0.03 | 359 |
| 7. Diarrhœa | | 110 | 0'23 | 0.80 | |
| Enteritis, gastro enterit | is | 80 | 0'17 | 0'24 | |
| Cholera (English) | | | | 0'00 | |
| Phthisis | | 548 | 1.14 | 1.35 | 934 § |
| Other tuberculous disea | ases | 274 | 0'57 | 0'72 | |
| Seven commoner zymo (including mem. cro Bronchitis) | | 390 | 0.81 | 2'21 | |
| Pneumonia Pleurisy | ••• | 1,291 | 2.68 | 2'99 | |
| Other lung diseases (without influenza)) | | 91 | 0.10 | 0.18 | |
| Malignant growths | | 449 | 0.93 | 0.87 | |
| Violence and accident | | 256 | 0.23 | 0.01 | |

* The R.G. excludes deaths of non-municipal paupers. He also adds those of Leeds persons dying in Public Institutions outside. The rates 14'2 and 17'3 are calculated on the larger numbers. See also note to table 2.

Calculated on average population, non-residents not excluded. The average of the published returns to one decimal place are birth-rate 28'2, death-rate 17'4. The death-rates for special groups are the uncorrected means of the published returns, from which non-residents were not excluded.

|| Means not notifiable. § Notification voluntary except as to paupers.

TABLE 22.

Table showing deaths from all causes at all ages, and death rates at all ages in the intercepts of the wards and townships of Leeds for the year 1909 (52 weeks).

| | | | | Deaths, 1909. | Average death rate per thousand. |
|------------------|--|-------|----|---------------|-------------------------------------|
| Holbeck | Holbeck West Hunslet* | | | 459 83 | 13.80 |
| HUNSLET | West Hunslet | | | 394 | 13.08 |
| | East Hunslet South | | | 504 177 | 12.50 |
| South-EAST LEEDS | South) | | r | 96 | 24.03 |
| | Central Ĵ East | 25.55 | 1 | 29 627 | 32.33 |
| OSMONDTHORFE | East* | | (| 10 | 29:59 |
| CHAPELTOWN | North-east* | 15.20 | 11 | 172 | 15.28 |
| (part of) | | | 1 | 63 | 11.14 |
| | North $\left\{ \begin{array}{c} C. A. \\ Pott. \end{array} \right\}$ | 9.78 | 1 | 240 | 9.47 |
| NORTH LEEDS | | | | 275 | 15'21 |
| | North-east | | | 395 | 17.91 |
| | Central Central in W. } | 10.28 | { | 199 I | 10.82 5.83 |
| WORTLEY | New Wortley | | | 260 | 14.22 |
| | Armley) | 11.62 | 1 | 393 | . '31 |
| | Wortley ∫ Farnley | | 1 | 125 67 | 12 71 13 38 |
| BRAMLEY | Bramley | | | 2 78 | 14.27 |
| KIRKSTALL | Kirkstall) | | (| 61 | 13:25 |
| | Burley | 10.30 | | 330 | 10.18 |
| | Headingley) | | (| 134 | 9.28 |
| CHAPELTOWN | Headingley | | 1 | 21 | 14.68 |
| (part of) | North-west Brunswick | 12.14 | 1 | и 37 | 13.51 |
| | | | 4 | 37 | 11.03 |
| WEST | Brunswick | | | 265 | 13.40 |
| | North-west Mill Hill | | | 443 | 12°40 15°10 |
| | West | | | 99 422 | 13 10 |
| Сіту | ··· ··· | | | 6,660 | 13.81 |
| | Outsiders | | | 194 | |

*The rates are calculated on populations estimated by the Registrar General's method, described at p. 88 of the Annual for 1904. The rates for West Hunslet (in Holbeck), for Osmondthorpe, and for N.E. (in Chapeltown), are more probably 10'97, 16'65, and 12'12, and that for Osmondthorpe with N.E. in Potternewton 12'31.

| | | | | Deaths, 1905-9. | Average death rate per thousand. |
|------------------|--|-------|---|-----------------|-------------------------------------|
| HOLBECK | . Holbeck | | | 2,472 | 15.14 |
| | West Hunslet* | | | 428 | 22.57 |
| HUNSLET | | | | 2,057 | 14.13 |
| | East Hunslet | | | 2,746 | 14:24 |
| | South | | | 924 | 19.44 |
| SOUTH-EAST LEEDS | South l | 26.28 | 5 | 537 | 25.27 |
| | Central ∫ | 20 50 | 1 | 163 | 32.04 |
| | East | | | 3,342 | 22'40 |
| OSMONDTHORPE . | . East* | 16.22 | 1 | 37 | 21.22 |
| CHAPELTOWN . | . North-east* | | | 822 | 16.35 |
| (part of) | | | 1 | 300 | 11.07 |
| | North $\left\{ \begin{array}{c} C. A. \\ Pott. \end{array} \right\}$ | 9.21 | 1 | 1,070 | 9.15 |
| NORTH LEEDS . | . North | | | 1,440 | 16.11 |
| | North-east | | | 2,180 | 19:55 |
| | Central) | | 1 | 1,235 | 13'24 |
| | Central in W.∫ | 13.35 | 1 | 21 | 21.35 |
| WORTLEY | . New Wortley | | | 1,568 | 17.01 |
| | Armley) | 12:07 | 5 | 2,073 | 12.54 |
| | Wortley | 13.02 | 1 | 714 | 14.90 |
| | Farnley | | | 272 | 11.20 |
| BRAMLEY | . Bramley | | | 1,293 | 13.61 |
| KIRKSTALL | | | (| 304 | 13.50 |
| | Burley | 10.22 | | 1,662 | 10.84 |
| | Headingley J | | 1 | 681 | 9.72 |
| CHAPELTOWN | | | 1 | 110 | 15.90 |
| (part of) | North-west | 13.13 | | 5 | 12.95 |
| | Brunswick | | (| 190 | 11.93 |
| West | Brunswick | | | 1,400 | 14.04 |
| | North-west | | | 2,343 | 13.40 |
| | Mill Hill | | | 544 | 15.86 |
| | West | | | 2,240 | 18.98 |
| Сіту | | | | 35,173 | 14.95 |
| | | | | 551-15 | -4 95 |
| | Outsiders | | | 942 | |

Table showing deaths from all causes at all ages, and death rates at all ages in the intercepts of the wards and townships of Leeds in the five years 1905-9.

TABLE 22a.

*The rates are calculated on populations estimated by the Registrar General's method, described at p. 88 of the Annual for 1904. (See also above pp. 40-41).

TABLE 25.

Shewing case-houses examined on account of certain diseases heard of during 1909, and some of the conditions found as to drainage and closet arrangements.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | |
|---------------------------------|-----------------|-------------------|--------------|----------------|------------------|---------------------|--------|------------------|-------------|----------------|--------|--|
| | | | | D | rains | severe | d. | | | | | |
| | | | Water | -close | t. | | | | | | | 52 weeks, 1909. |
| | F | Ins .V. | ide. not | F.V. | Out | side. | Т. | W.C. | М. | or P. | | |
| - | def. | not | def. | not | def. | not | def. | not | def. | not. | | |
| Through Back-to-back | | | 1.2 | | | | | | | |) I. | Smallpox |
| Through Back-to-back | 16 18 | 164 83 | | 1 3 | 12 35 | 133 396 | 2 1 | 21 67 | 2 1 | 14 2 | } 2. | Scarlet fever |
| Through Back-to-back | 52 22 | 212 78 | 7 3 | 8 2 | 30 48 | 159 340 | 2 6 | 19 109 | I | 6 3 | } 3. | Diphtheria |
| Through Back-to-back | | 2 | ··· | ••• | | 4 | ••• | 1 | | | } 4. | Membranous croup |
| Through Back-to-back | | | | | | | | I | | *** | } 5. | "Croup" |
| Through Back-to-back | | | | | | 4 | ···· | | | | }. 6. | Typhus fever |
| Through Back-to-back | I | 20 5 | I | 2 | 2 13 | 31 56 | | 6 41 | I | I I | } 7. | Typhoid fever |
| Through Back-to-back | ···· ··· | | | •••• | | ••• | | ••• | | ••• | } 8. | Continued fever |
| Through Back-to-back | | 31 21 | ••• | 1 2 | ••• | 47 110 | ••• | 11 44 | | 1 2 | } 9. | Erysipelas |
| Through Back-to-back | | I | | ••• | | 3 13 | 2 | и 4 | ••• | •••• | } 10. | Puerperal fever |
| Through Back-to-back | | I I | | ••• | 1 4 | 3 26 | ••• | 2 20 | ••• | I | } 11. | Measles : death-houses |
| Through Back-te-back | 4 | 6 13 | | | | 4 | | | •• | 1 | } 12. | Measles : recovery houses |
| Through Back-to-back | | | | •••• | | | | 1 | | | } 13. | Measles : recoveries in death- houses |
| Through Back-to-back | | 43 | | | | 8 38 | | 33 | | · | } 14. | Diarrhœa |
| Through Back-to-back | | 26 11 | | | | 42 84 | | 2 36 | | 2 | } 15. | Phthisis : death-houses |
| Through Back-to-back | | 34 33 | | I | | 94 309 | ••• | 21 153 | | 2 | } 16. | Phthisis : notified in life |
| Through Back-to-back | | 16 18 | | | | 36 107 | ••• | 3 55 | | 2 | } 17. | Broncho-pneumonia |
| Through Back-to-back | | 24 I I | | 2 I | | 39 108 | | 4 52 | ••• | 2 I | } 18. | Pneumonia |
| Through Back-to-back | | 4 1 | ···· ··· | | | | ••• | | | | } 19. | Pleuro-pneumonia |
| Through Back-to-back | ···· ··· | 3 | | · | I | 2 3 | | 3 | | | }2 20, | Pleurisy |
| Through Back-to-back | | J I | | ••• | | I | | 2 | | | } 21. | Laryngitis |
| Through Back-to-back | | 7 10 | | I | | 14 32 | | 8 | | 2 1 | } 22. | Influenza |
| Through Back-to-back Both | 69 44 113 | 553 292 845 | 7 4 11 | 13 11 24 | 46 100 146 | 615 1646 2261 | IO | 91 632 723 | 4 1 5 | 31 14 45 | | |

TABLE 25.-Continued.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | | |
|-----------------------------------|-----|-------------|-------------|-------------|---------|------------------|---------------|------------------|-------------|-------------|---------------|----------------------|--------------------|-------------------------|
| | | | | | Drain | s not s | evere | d. | | | | C | Cases. | |
| | _ | | Water | -closet | | | | | | | | | | - Total deaths in |
| | | Ins F.V. | ide. not | F.V. | Out | side. | Т.1 | V.C. | М. | or P. | No drain | Alive. | Dead. | City. |
| | de | f. not | def. | not | def. | not | def. | not | def. | not | | | | |
| I. { Through Back-to-back | | | | | | | | | | | | | | |
| 2. Deals to heal | | 1 5 3 7 | I | | 5 | 12 65 | I I I | 5 22 | | 2 | 6 | 396 740 | | 12 |
| J.) Rack to back | | I 5 4 17 | | | 6 18 | 14 38 | | 6 19 | 2 | | | 528 710 | 7 | 61 |
| 4. Deals to heals | | | | | | I | | 1 | | | 2 | I O I | | 4 |
| 5. 1 Rook to book | | | | | | | | | | | | 2 | | 5 |
| 0.) Back to heals | | | | | | | | | | | | 7 | | 2 |
| 7.) Back to back | | | | | 2 | 7 | | , 1 , 6 | | I | I I | 66 140 | | 40 |
| 0.) Rack to hack | | | | | | | | | | | | | | |
| 9. 1 Back to back | | 1 6 | | | | 8 23 | | 12 | | | | 102 220 | | 13 |
| 10.) Rack to back | | | | | 2 | I I | | | I | | | 5 22 | 2 | 19 |
| II. { Through Back-to-back | | | | | | 8 | 2 | 1 4 | | •••• | | | 9 68 | 78 |
| 12. { Through Back-to-back | | | | | | | ··· | 2 | | | | 10 36 | | |
| 13. { Through . Back-to-back . | | | ••• | | | | I | | | | | 2 | | |
| 14. { Through . Back-to-back . | | | ••• | | | 2 7 | | I I I | | I | | | 17 93 | 110 |
| 15. { Through Back-to-back | | | | I | I | 3 25 | | 2 13 | | | I | | 81 172 | 548 |
| 16. { Through | | | | I | (i. | 11 76 | | 6 68 | | | 3 | 172 644 | | |
| 17. { Through | | | | | ···· | 3 22 | | I S | ···· ··· | I | | | 61 224 | 288 |
| 18. (Through Back-to-back | | | | | •••• | 18 | | 4 13 | | | I | ···· ··· | 81 205 | 322 |
| 19. { Through Back-to-back | | | ••• | ••• | ••• | , | ••• | | | | | | 4 4 | 8 |
| 20. { Through Back-to-back | | | ••• | | | I | | 2 | | | | | 7 8 | 18 |
| 21. { Through Back-to-back | | 10000 | | | | 1 ' | | | | | | | 2 4 | ю |
| 22. { Through Back-to-back | | 1000 | ••• | | | 10 | | 6 | | 1 | 1 | | 25 69 | 104 |
| Through Back-to-back Both | . 7 | 38 | I I | I I 2 | | 61 304 365 | 1 22 23 | 27 197 224 | 3 3 | 5 1 6 | 2 17 19 | 1280 2533 3813 | 287 856 1143 | 1642 |

MUNICIPAL YEAR. VITAL STATISTICS FOR 1909-1910.

The following Births and Deaths were recorded in the several Sub-Registration Districts of the City of Leeds during the fifty-two weeks ended 1st October, 1910. The figures in italics after the Births and Deaths give the proportion per annum per 1,000 of the estimated population.

| Districts. | Births. | Birth Rate. | Deaths. | Death All causes. | Rate. 7 Zymotics. |
|--------------|------------|----------------|---------|----------------------|----------------------|
| vi (North | | | 831 | 14.21 | 0.91 |
| West | | | 1,153 | 13.46 | 0.96 |
| South-East | 1,115 | 31.53 | 792 | 22.40 | 2.12 |
| Hunslet | 1,889 | 23.41 | 991- | 12.28 | 1.50 |
| Holbeck | 1,023 | 27.10 | 545 | 14:44 | 1.51 |
| Wortley | 1,273 | 18.53 | 838 | 12.20 | 1.13 |
| Kirkstall | 923 | 17.60 | 492 | 9.40 | 0.61 |
| Bramley | 403 | 20.46 | 241 | 12.24 | 0.66 |
| Chapeltown | | | 509 | 10.48 | 0.59 |
| Osmondthorpe | 13 | 38.88 | 7 | 20.00 | |
| Outsiders | | | 215 | | |
| Totals | 10,833 | 22.21 | 6,614 | 13.57 | 1.11 |

Considered as occurring in the Municipal Wards, the foregoing Deaths are classed as follows :--

| Wards. | Deaths. | Death | Wards. | | Deaths. | Death |
|--------------|---------|-------|-------------|---------|---------|-------|
| Eastern Divi | sion. | Rate. | Western Div | vision. | | Rate. |
| Central | 227 | 11.76 | Mill Hill | | 98 | 15.18 |
| North | 527 | 10.53 | West | | 402 | 17.18 |
| North-East | 562 | 16.67 | North West | | 414 | 11.51 |
| East | 658 | 21.27 | Brunswick | | 286 | 12.34 |
| South | 244 | 18.56 | New Wortley | | 283 | 15.51 |
| East Hunslet | 492 | 12.01 | Armley . | | 496 | 10.94 |
| West Hunslet | 453 | 13.16 | Bramley | | 300 | 12.12 |
| Holbeck | 451 | 13:35 | Headingley | | 506 | 9.40 |

In both these tables deaths occurring in public institutions have been referred to the districts to which the patients belonged. The births in workhouses are included in those of the districts in which these institutions are situated. There were ninety-four deaths at Manston Hospital during this year. The rates are calculated for the year on populations estimated by the Registrar General's method, described at p. 88 of the Annual for 1904. Owing to alterations in areas of district registrars, the birth rate for North, West, and Chapeltown have been omitted, though included in the totals for the City.

Table of Ward Inspectors' Work. Year 1909 (52 weeks).

| | | | 222 | a sandar | | | | | | | |
|----------|--|--|-------------|-----------|---------|---------------|--|---------------------|--------------------------|-------------|---------------|
| | | - | Quar 11. | Quarters. | IV. | City Fotal | | L. IL. | Quarters. II. III. IV | IV. | City Total |
| 1 | | | | | | | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | - | - | | |
| | H HOUSE INSPECTION. | 1160 | 1128 | 1108 | P P271 | 4020 | OI HEK WOKK DONE (continued). | 2052 3765 | 5 3305 | 3305 4150 1 | 15182 |
| | riouses and premises Alleged nuisances | 153 | | 1001 | | - | : : | 1241 94 | 7 984 | 984 1102 | 4274 |
| i et | ined on account of | 2964 | 2578 | 2207 | 2261 10 | | Appointments | 275 263 | 3 260 | 305 | IOII |
| + | Houses and premises | 39 | 77 | | 100 | _ | Notices and letters served | : | : | un | - |
| in | <pre>examined</pre> | 1000 | 10000 | 101 | | - | - | : * | : | : ` | |
| 0 1 | Number of houses whelly or partly examined | 4207 | 4054 | | 394 15 | S072 | Houses cleansed | 86 130 | 0 140 | 1664 | 524 |
| 100 | | the state of the s | | | 6 | - | Overcrowded houses dealt with | | | 2 | 22.00 |
| 5 | | 1363 | 1264 | 1004 | | 4794 4 | ed 2 | 237 343 | CH. | 314 | 1168 |
| 6 | Sanitary defects | . 1733 | 6191 | 1508 | 1589 6 | 6449 | | 11 | 53 | 10 | 46 |
| - | | | | | - | | 45. Old midden privies repaired | : . | : | : | |
| 10. | (Houses dirty | . 120 | | | 147 | _ | Ashplaces repaired | | II | - | |
| 11. | 33 | - 25 | 10 | 23 | 20 | 251 | Privies converted into ordinary water closets | 5 | 0 0 | - | 1 1 N |
| 12. | | - 65 | | | 102 | - | 49. Water closets crected J (d) Outside | 14 | + c | - | 200 |
| 13. | ", WIIII DEFECTIVE CAVE-GUILETS OF | afre | | 110 | | | Naue days achinite | | • | 0.0 | 0 |
| | hadle desired | 910 | 202 | 144 | 4/10 | -15.4 | | 206 304 | TOA P | 250 | 1022 |
| + : | | | | | | - | Pail closets converted into water closets. | | | | 4 |
| in e | | C4 | | 9 | 00 | 18 | T.C.'s converted into ordinary cutside W.C.'s | 0 | | | 290 |
| 17. | . : | | 12 | F | - | 10 | | 95 6 | 67 96 | | 320 |
| 18. | | | _ | | - | - | spected | 1001 | | 185 | 000 |
| _ | commodation | . 938 | 627 | 303 | 422 2 | 2290 | ", ", of reconstruction ", | | | 552 | 2130 |
| | ., (b) with insufficient ashpit ac- | | | | | | e to sewer | 03 | 001 0 | | 374 |
| _ | | 154 | | | 294 | | Disconnections of house drains effected | 905 00 | 6 1301 | 1405 | 4040 |
| 19. | y, with diriy closets | - | 103 | 8. | 1 | Č. | Dublic or meiners walls abolished | | | : | - |
| 30. | 3) WITH Grains, ecc., temporarily | chi | - | 000 | | Stat | | | | : : | 0 |
| | J with other micances | | 683 | 9000 | 2000 | | Trough and water closets renaired | 704 566 | 6 615 | 628 | 2513 |
| 200 | Total nuisances found i | 3804 | | 2775 | | | Other house nuisances remedied | 1689 1459 1193 | 61193 | | 6022 |
| 23. | No. of houses in which above nuisances | . 3549 | | 2455 | | - | Total houses for which above work done | 3093 2780 2312 | 0 2312 | 30.39 | 11224 |
| 24. | 100 | . 442 | | 300 | | 1051 | Houses in which all defects found have been remedied | 2860 2553 2129 2761 | 3 2129 | 2701 | Eofoi |
| 50 | - | . 75 | | 68 | 59 | 278 | Street gullies cleansed | en | 6 273 | 64 | 1230 |
| 20. | Other outside nuisances | 368 . | | 142 | 300 | III | | 1 61 | 16 53 | 45 | 135 |
| 27. | 6.00 | 4809 | 4 | 3294 | 440 16 | 9204 | Pollutions of river or streams remedied | | | 5 | 14 |
| 50 00 | Complaints unfounded | . 15 | 31 | 12 | IO | 55 | Other non-domestic nutsances removed | 142 | 02 66 | 102 | 479 |
| - | / Addie | 701 | Aboh | 2572 1086 | | GLAS | 70. Additional visits paid to inspect work in progress [20] ar. Total misances abated | 4600 4280 4651 5126 | 0 4651 | 4651 5126 | 18757 |
| 5.00 | visits | 2411 | _ | | | | | 1 | - | | |
| 5 | paid to houses | 4 | _ | 53 | | 244 | | - | | | - |
| ei ei | for | . 828 | 868 | 988 | | 3590 | | - | | | - |

TABLE 11. Analysis of work done by District Inspectors in the several Wards, 1909.

| 100 | | | | | | | | | | | | | | |
|--|--------------------------------------|------------|--|---|---|---|--------|----------------------|--|-----------------------------------|----------------|-----------------------------------|--|---|
| | 'AI uoisiai | a | 1381 256 2271 | 53 101 826 | 4888 | 1510 2415 | | 88 85 85 | 147 910 | : :°° | 169 | 125 | 332 997 3403 2662 | 194 42 255 3894 13 |
| | Central. (North of Lady Lane). | ij | 52 : : | : :• | 12 | :: | | : := | cu in | ::: | 5 | :03 | 31 31 31 | 50 cc cc |
| ion. | Cer (Nor Lady | 5 | 147 3 577 | 1 | 263 | 118 | | 8110 | 37 79 | : :00 | 46 | 24 | 64 97 417 405 | 14 59 489 1489 1489 |
| N. Division. | wick. | 5 | 5 - : | : :™ | 16 | :: | | ∾ ; ; | - : | : : : | 23 | ; * | °.188 | :444 : |
| IV. E | Brunswick | J | 207 11 478 | 18 1 174 | 688 | 88 | | 11 9 19 | 28 | : : : | 117 | 32 | 584 584 583 583 | 881 881 28 881 881 881 881 881 881 881 8 |
| No. | $M_{\rm est.}$. | N | 353 345 379 | | 1095 | 301 | | 1040 | 52 | : : : | 84 | 85 | 94 154 499 462 | 800 669 7 |
| - | ittey. | Bu | 343 566 | 1288 | 1211 | 677 | | 101 | 35 448 | : : : | 220 | 5 | 15 330 1076 716 | 19 33 1100 |
| | .llatsdi | KP | 54 | 4013 | 138 | 52 | | ::: | .11 | ::: | 24 | .:: | 222 | . 22 |
| | (bart). subs | Jey Ite | 163 | 3 178 | 629 | 326 | | | 218 | 11 | 172 | · · | 46 240 561 361 | 14 33 791 3 |
| Division. | noisivi0 .111 | 1 | 1033 142 3180 | 87 67 332 | 14841 | 1124 | | 78 65 138 | 464 676 12 | 200- | 573 | 167 96 | 546 556 3336 3134 | 398 27 24 17 17 |
| isi 11.10 | ramley. | B | 283 35 667 | 8228 | 1124 | 361 | | 20°50 | 581 | 11 | 15 | 2010 | 95 355 355 | 54 56 503 : : |
| 0iv | Vortley. | 11 | 295 31 975 | 41 6 110 | | 219 | | 355 | 81 | ::: | 326 | 6 8 | 988 988 988 138 | 154 155 338 338 |
| ans I | wiey and | | 884 55 55 | 112 | 1210 1458 | 376 | | 9 19 | | 16 | 122 | 135 | 271 271 97010 | 73 11 32 32 132 132 132 |
| No. III Divisio Population-111,150. | West. | 1 | 291 1 13 664 8 | 188 | 1049 12 | 341 3 | | 37 19 67 | | : :00 | 199 | 88 | 127 41 942 868 | 117 15 15 77 1151 10 9 |
| | : | | : : : | 1 1 1 | - | : : | | ::: | 5 : : | | <u>ه</u> : , | | | |
| t, 1910. | : | | VSPECTION. Infective disease Alleged nuisances | Offices | Number of houses wholly or partly examined Total number of above houses where sanitary defects | s | | :::: | e-gutters | ::: | closet | | a drams, acc., temporarity stopped th other nuisances n houses above nuisances were found. | |
| Ist, | | | ON disea hous | and | ly ex | ouse | ċ | pida | d s s | dated | latio fatio | latio | uisar sano | |
| un. | | | INSPECTION. | Occupants Buildings and O Drainage | part s wh | ove h | &c. | dirty overcrowded | with defective eave fall pipes badly drained without sink drain | badly lighted badly ventilated | commodation | commodation with dirty closets | with drams, acc., t stopped with other nuisances d in houses ch above nuisances w | |
| Je | VARDS. | | SPE Infec | Docu | ly or | n abo | ANCES, | rcrov | fall fy do hout | lly li | | h dir | with dram stoppe with other nd in houses ich above m | 11111 |
| led | WAB | | | | wholl ove h | i pu | ANC | 30 | hadly without | par d | (2) | in in | wi wi | ed tions mod ded |
| enc | | | SE emis mine of | emis | ises of ab | for for | NUIS | House | : | | 2 | 2 I | s fou | topp mula nuisa s fou foun |
| 108 | | | HOUSE Ind preminity count of | and pr nined o as to | f hot | found | Z | H | | | | | ance | lies s accu side sance ts un |
| weeks ended Jan. | : | | HOUSE 1 Houses and premises completely examined on account of | Houses and premises examined only as to | Number of houses Total number of al | were found Sanitary defects found in above houses | | | Nuisances found | in above | other | 1 | " Total nuisances four No. of houses in wh | Street gullies stopped Offensive accumulations Other outside nuisances Total nuisances found Complaints unfounded |
| | | | Hous | Lous | Vum | sanit | | | Nuis | abo | other | | Fotal No. 6 | Stree Offen Other Fotal Comp |
| 52 | | | 1. 3.) o | 4:) I | 100 | | | 10. | | 1.0 | | 19. | | 24. 55. 25. 26. 52. 28. 0 |
| i di | 'II | | 1211 149 3415 | 176 153 215 | 5319 | 1454 | | 218 79 123 | 513 649 2 | | 119 | 277 | 741 786 4198 3801 | 721 140 5466 2 |
| Division. | noisivi | | 287 1 26 304 3 | 6028 | | 478 660 1 | | 40.138 40.138 | 149 | :: | 282 | 223 | 7894 361 561 644 4 440 3 | 302 20 2093 1 2093 5 |
| Div l | Lunslet. | | 349 349 715 9, | 179 | - | 817 6 | | 8833 | 97 1 239 2 | | 90 2 | 13 1 | 116 3 171 3 959 16 908 14 | 196 3 13 73 241 20 |
| | Tunslet. Vest | | 416 3 14 257 7 | 88 12 4 | 1301 14 | 210 8 | | 15 16 17 | 206 | | 122 | 14 | 1123 1 1158 1 940 9 940 9 | 144 1 89 107 1 1 |
| No. II Populat | East | - | 159 4 16 8 969 8 | 81 | | 112 2 | | 32 | 37 1 | | 117 1 | 35 | 118 1 96 1 6655 9 646 9 | 79 1 18 18 100 1 852 12 852 12 |
| | I ivision | | 1305 1 182 1144 9 | 65 1 207 122 | | 706 838 1 | | 85E 13 | 247 402 | 0110 | 355 1 | 264 | 499 1 508 2818 2807 6 | 188 69 201 3276 8 23 23 |
| i n | East. | - | 288 1 335 1 335 1 | : 0 | 10 | 223 | | 159 | 74 | :: | 62 | 58 | 85798 8559 8559 8559 8559 8559 8559 8559 | 15066118 |
| visior -122,513. | V. East. | | 535 2 585 2 462 3 | 46 | | 315 | | 1281 | 76 | 21 | 140 | 212 | 518,383 | 061166 065166 |
| | North. | | 426 5 117 4 | 15 95 95 | | 248 3 | | 18 30 | 104 | - | 80 | 50 | 128 138 138 138 138 138 138 138 138 138 13 | 25 296 10 296 10 |
| alat | dy Lane). | I I | 27 4 1 : | 102 | | 88 | | = : : | 50 | | 2 | 15 | 88280 1088 1099 | 13 13 127 127 |
| No. Popt | Central. | | 49 225 | 128 | 440 | 137 | | 8mr- | 265 : | :04 | 12 | 19 | 70 94 353 353 | 542 542 : 1 |
| | CUTV TOTAL. | | 4,930 729 10,010 | 381 528 1,495 | 18,073 | 4,794 6,449 | | 614 251 329 | 1,371 2,637 14 | 18 23 | 2,290 | 833 469 | 2,118 2,847 13,814 12,204 | 1,501 278 1,111 16,704 |
| - | | | | | | | | | | | | | | |

| | 'AI uoisiv | D! | 752 1553 270 970 | 956 2145 324 324 326 26 26 | 24 24 25 24 25 24 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25 | H 10 | 1992 1355 23 1355 23 23521 | 4293 |
|--|--------------------------|--------|---|---|--|---|--|-------------------|
| | ral. h of anel. | U) | 36 79 | | 24 11 25 26 26 27 26 26 26 26 26 26 26 26 26 26 26 26 26 | 18 15 15 121 121 86 86 | 79 2 5 5 | 302 |
| MARDS WARDS WARDS <th< td=""><td>Cent (North Lady L</td><td>J.</td><td>48 54 6 165</td><td>641 82 82 82 82 82 82 82 82 82 82 82 82 82</td><td>8°: 8°, ::: 1</td><td>42 102 102 1756 345.</td><td>514 5 85 85 85</td><td>422</td></th<> | Cent (North Lady L | J. | 48 54 6 165 | 641 82 82 82 82 82 82 82 82 82 82 82 82 82 | 8°: 8°, ::: 1 | 42 102 102 1756 345. | 514 5 85 85 85 | 422 |
| MARDS WARDS WARDS <th< td=""><td>wick.</td><td>J.</td><td>13 14 45</td><td>₿™∞ : : :∞ :</td><td>10 : : : : 10 : : 00 : : 00</td><td>8112: : : : : : : : : : : : : : : : : : :</td><td>95 : : : 55</td><td>78</td></th<> | wick. | J. | 13 14 45 | ₿™∞ : : :∞ : | 10 : : : : 10 : : 00 : : 00 | 8112: : : : : : : : : : : : : : : : : : : | 95 : : : 55 | 78 |
| NUMUS WARDS Number of the state of the | Bruns | Ú | 97 242 1 410 | 915 55 55 1144 55 | 9 : 1 : 5 · 6 · 6 | 15 150 150 150 150 150 | 289 38 12 499 | 589 |
| NUMDIS: Multiplication Multiplicatio | West. | 'N | 267 643 87 97 | | ¹² 3: ³ 6: : ² ⁵ ⁵ : : ⁶ 0 | 58 575 575 582 582 582 586 546 | 544 70 71 54 70 70 | 1169 |
| NUMDIS: Multiplication Multiplicatio | Liey. | But | : 33925 | 049 33 33 4 4 | 50 50 | 1117 117 117 412 250 250 250 458 | 457 20 560 | 120 |
| NUMBER NUMBER< | Tistes | ALM I | 1: 83 | Pro and GP 1 | | 436-7 | 11 . 1. 42 | 47 |
| NAME Regr Mark MANDS | (usd) | Jeh (| 78 220 173 | | : 5: 8: | | 211 211 43 1032 | 615 |
| Warding Wardie Wardie Wardie Wardie Res Name Marriely Marriely Marriely Marriely Res Marriely Marriely Marriely Marriely Marriely Res | .111 | 1 | 5028 3450 84 1145 | 4706 923 305 48 505 505 | 441 12 12 189 189 107 107 | 120 556 556 556 556 3142 3142 3142 | 2886 334 17 17 120 1547 | 4532 |
| Hull Hull Dirich WANDS. WANDS. MANDS. Carting and Statistics Statistics Statis Statis Statis | untey. | Dist. | and the second se | 32 32 32 | 8 53 · · · · · · · · · · · · · · · · · · | 30 55 55 55 54 55 54 55 | 256.94 400 256.94 400 256.94 400 | 225 |
| MARTING South at Contract of a bising and south at south and south | ortley. | 11. | | | | | | |
| MARTING South at Contract of a bising and south at south and south | stiley. | IA. | and the second se | hand . | 205 1 37 36 15 | and a second | 400 | 1991 |
| MARTING South at Contract of a bising and south at south and south | | | 4487 39 348 348 | 1128 156 156 12 | 153 39 25 12 | 36 191 29 275 275 275 257 255 725 725 | 710 73 8 722 | 1265 |
| IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | : | | 1111 | | | | g : : : : : : : | |
| IIII IIII H III H IIII H III H III H <t< td=""><td>ARDS</td><td></td><td></td><td>at</td><td></td><td></td><td>found have</td><td>:</td></t<> | ARDS | | | at | | | found have | : |
| Mill Hill Mill Count of the sector of the sect | M | | • Additional visits paid to houses for | | | Drains in course of Do. inspected w Do. inspected w Disconnections of hu Cesspools filled up Cesspools filled up Houses supplied with Trough and water o Other house nuisano Total houses for wh | Houses in whic remedied Street gullies clean Offensive accumul Pollutions of river Other non-domesti Additional visits p | Total nuisances a |
| Mill Hill Mill Count of the sector of the sect | | | | | | | the second se | |
| Mill Hill, Mill Hill, | noizi .11 | Div | | | | | | |
| Mill Hill, Mill Hill, | lbeck. | loH | 475 1404 217 | 1002 315 45 31 318 318 318 318 | 120 | H | and . | 2226 |
| Milli Hill, Milli Hill, Milli Hill, Milli Hill, Centit attel 533 Milli Hill, Centit attel 533 <thmilli hill,<br="">Centit attel 533 Milli Hill</thmilli> | | | 596 476 258 | 1165 59 59 3 153 123 | 23 31 : : : : : : : : : : 33 31 : : : : : : : : : : : : : : : : : : : | 20 204 205 204 205 204 205 669 | 664 15 15 42 895 | 259 |
| Milli Hill, Milli Hill, Milli Hill, Milli Hill, Centit attel 533 Milli Hill, Centit attel 533 <thmilli hill,<br="">Centit attel 533 Milli Hill</thmilli> | .Jəlan | nH | 130 176 176 | 24 24 102 24 24 | 126 | 882 882 882 882 882 882 882 882 882 882 | 769 82 376 376 | 101 |
| Mill Hill. Mill Hill. Nill Hill. Centra del. 2009 1325 545 1244 20 5473 1325 545 1244 29 174 738 565 555 545 1244 284 174 177 9 111 74 125 545 244 234 17 13 11 74 125 546 56 166 7 7 17 1 1 74 125 545 544 23 54 54 54 54 54 54 54 54 54 55 54 55 54 55 54 55 54 55 55 55 56 56 56 56 56 56 56 56 56 56 55 55 55 56 56 56 56 56 56 56 56 56 56 56 | | | | - | | | | 829 |
| Milli Hill. Milli Hill. Milli Hill. Centra trat of lease Ziss 2009 533 235 533 235 533 235 534 234 535 235 536 536 537 235 538 545 537 235 538 536 537 236 538 536 537 236 538 536 537 237 117 30 237 111 12 30 237 111 23 330 330 135 237 131 238 104 237 124 238 104 237 134 238 104 237 134 238 135 238 132 | uoisi. | Die | 2030 1732 127 720 | 2335 1329 329 10 10 2333 77 | 270 132 57 55 55 55 55 55 55 55 55 55 55 55 55 | 333 412 1111 1337 2 1336 1449 1449 1449 | 2094 181 63 103 103 2454 | 4511 |
| Milli Hill. Milli Hill. Nilli Hill. 233 <td></td> <td></td> <td>98 174 166</td> <td>616 47 34 34 10 122 152</td> <td></td> <td>and the second se</td> <td>365 290 365 299</td> <td></td> | | | 98 174 166 | 616 47 34 34 10 122 152 | | and the second se | 365 290 365 299 | |
| Milli Hill. Milli Hill. Milli Hill. Cenual of Contra of 17 200 200 1332 545 5453 339 336 553 35 336 563 35 36 17 9 113 17 9 111 18 133 56 17 9 111 23 33 336 17 9 111 23 133 56 17 9 111 23 30 133 56 37 133 57 53 53 53 53 53 53 53 53 56 11 12 56 112 12 565 112 56 57 54 55 58 56 51 58 56 56 5 | East. | 'N | 5545 5545 5545 5545 5545 5545 5545 554 | 888 199 199 | 102 2 1 2 2 1 1 2 2 2 2 7 2 | 71 21 21 2564 159 159 | 718 55 14 14 82 | 346 |
| Mill Hill. Mill Hill. Nill Hill. 233 235 233 235 136 1.04 1 | | | 345 L 642 389 | | | | | 1 222 |
| 802 802 90 91 11 12 94 11 12 94 11 13 1 | to day | ON) | | 92 [™] 52 [™] : :6 | • • • • • • • • • • • • • • • • | 12 108 108 108 108 | 14 14 72 72 | |
| Ctrv Torxi. Torxi. Torxi. 7 3,590 1,101 7 1,101 7 1,102 1,102 1,102 2,513 5,540 1,102 3,560 1,102 3,560 1,102 3,560 1,102 3,560 1,102 3,560 1,102 3,560 1,102 3,560 1,102 3,560 1,102 3,560 1,102 3,560 1,102 3,560 1,102 3,560 1,102 3,560 1,102 3,560 1,102 3,560 1,102 3,560 1,102 3,560 1,102 3,560 1,102 1,100000000 | | - | 209 543 33 209 | 406 62 81 17 2 | 44 : : : : : : : : : : : : : : : : : : | 80 62 65 545 545 545 545 545 | 267 267 2025 255 255 255 255 255 255 255 255 25 | 802 |
| | CITY | TOTAL- | 9,145 9,670 244 3,590 | 15,182 4,274 1,101 1,101 1,7 524 524 | 1,168 49 123 235 355 1,023 1,023 236 236 | 2,138 2,138 374 4,640 10 2,513 6,022 11,224 | 10,303 1,236 135 135 13 13 479 10,608 | 18,757 |

TABLE 11-continued.

TABLE III.

Shewing the number of drains or sources of pollution diverted from the River Aire and its tributaries and connected to the town sewers.

| Date. | Mills, factory, house drains, stables, and pigstyes. | Water closets. | Privies. | Trade pollu- tions. | Total. |
|--|---|-------------------|----------|---------------------------|--------|
| Previous to 2nd Jan., 1909 | 5,888 | 512 | 233 | 82 | 6,715 |
| During the 52 weeksend- ed 1st Jan., 1910 | | | | | |
| Totals | 5,888 | 512 | 233 | 82 | 6,715 |

TABLE IV.

Shewing the sanitary conditions at time of visit of workshops on register and occupied, during the 52 weeks ended 1st January, 1910.

| | to ops. | | MPLOVER | | VENT | | CONDITION OF WORKSHOPS. | | | | ops sed. |
|-----------------------|-------------------------|-------|---------|--------|-------|-----------------|----------------------------|-------|--------|--------|----------------------------|
| DATE. | Visits to workshops. | | j | | | | | ms. | clos | ets. | d clo |
| 1909. | V | male. | female. | total. | good. | defec- tive. | clean. | dirty | clean. | dirty. | Workshops found closed. |
| 4 weeks ended Jan. 30 | 68 | 261 | 273 | 534 | 68 | | 46 | 22 | 50 | 18 | 26 |
| 4 weeks ended Feb. 27 | 97 | 372 | 382 | 754 | 92 | 5 | 91 | 6 | 93 | 4 | 20 |
| 5 weeks ended April 3 | 194 | 698 | 490 | 1,188 | 190 | 4 | 166 | 28 | 165 | 29 | 26 |
| 4 weeks ended May 1 | 78 | 302 | 270 | 572 | 77 | I | 62 | 16 | 66 | 12 | 37 |
| 4 weeks ended ,, 29 | 126 | 572 | 525 | 1,097 | 121 | 5 | 104 | 22 | 107 | 19 | 54 |
| 5 weeks ended July 3 | 152 | 495 | 448 | 943 | 150 | 2 | 133 | 19 | 137 | 15 | 29 |
| 4 weeks ended ,, 31 | 27 | 29 | 147 | 176 | 27 | | 25 | 2 | 22 | 5 | I |
| 4 weeks ended Aug. 28 | 40 | 115 | 72 | 187 | 40 | | 38 | 2 | 33 | 7 | 3 |
| 5 weeks ended Oct. 2 | 58 | 242 | 296 | 538 | 56 | 2 | 52 | 6 | 50 | 8 | 15 |
| 4 weeks ended ,, 30 | 105 | 346 | 584 | 930 | 102 | 3 | 97 | 8 | 85 | 20 | 7 |
| 4 weeks ended Nov. 27 | 98 | 291 | 360 | 651 | 96 | 2 | 93 | 5 | 86 | 12 | - 8 |
| 5 weeks ended Jan. I | 32 | 60 | 176 | 236 | 31 | I | 30 | 2 | 28 | 4 | 5 |
| Totals | 1,075 | 3,783 | 4,023 | 7,806 | 1050 | 25 | 937 | 138 | 922 | 153 | 231 |

| | Overground. | Underground. | Total visits to |
|--------------------|---|--|---|
| WARDS. | Em- Work- ployees shop beyond bake- family. houses. Domestic Bake- houses. | Em- Work- ployees shop beyond bake- family. houses. | over- ground and under- ground bake- houses. |
| Central | 45 in 14 15 | 7 in 3 2 | 114 |
| North | 33 ,, 17 32 | 6 ,, 2 2 | 131 |
| North-East | 17 ,, 14 66 | I ,, I — | .198 |
| East | 12,, 6 36 | | 103 |
| South | 18 ,, 10 52 | 2 ,, 2 I | 254 |
| East Hunslet | 9,, 6 86 | 4 ,, 2 - | 258 |
| West Hunslet | 14 ,, 5 104 | 2 ,, 2 4 | 189 |
| Holbeck | 25 ,, 11 83 | I | 225 |
| Mill Hıll | 24 ,, 10 7 | 3 " 2 — | 45 |
| West | 16 ,, 10 47 | I ,, I — | 225 |
| North-West | 13,, 8 44 | 8 ,, 4 3 | 123 |
| Brunswick | 13,, 8 33 | 8 ,, 3 - | 117 |
| Armley and Wortley | 25 ,, 19 60 | 2 ,, 2 - | 280 |
| New Wortley | 19,, 8 42 | | 110 |
| Bramley | 6 ,, 6 23 | I " I — | 90 |
| Headingley | 4 ,, 4 17 | 4 " I — | 60 |
| Burley | 21 ,, 17 38 | 7 " 5 — | 141 |
| Kirkstall | и,, и 4 | | 14 |
| Total | 315 ,, 174 789 | 56 " 31 13 | 2,677 |

BAKEHOUSES, 1909.

TABLE IVa.

Factories, Workshops, Laundries, Workplaces, and Homework. 1.—INSPECTION.

Including Visits and Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

| | | Number of | | | | | |
|------------|--------------|---------------------|---------------|--|--|--|--|
| Premises. | Inspections. | Written Notices. | Prosecutions. | | | | |
| Factories | I,120 | 126 | | | | | |
| Workshops | 3,554 | 334 | | | | | |
| Workplaces | 556. | 22 | | | | | |
| Total | 5,230 + | 482 | | | | | |

| | N | Number of Defects. | | | | |
|---|--------|--------------------|-----------------------------------|--------------------------|--|--|
| Particulars. | Found. | Remedied. | Referred to H.M. Inspector. | of Prosecu- tions. | | |
| Nuisances under the Public Health Acts :- * | | 1 | | | | |
| Want of cleanliness | 262 | 256 | | | | |
| Want of ventilation | 17 | 14 | | | | |
| Overcrowding | 35 | 3 | | | | |
| Want of drainage of floors | 5 | 3 5 | | | | |
| Other nuisances | 407 | 392 | | | | |
| Sanitary accom- (insufficient | 42 | 30 | | | | |
| modation. { unsuitable or defective | 211 | 186 | | | | |
| Sec. 22 in force. (not separate for sexes Offences under the Factory and Workshop Act : Illegal occupation of underground bake- | 30 | 30 | | | | |
| house (S. 101) | 10 | I | | | | |
| Breach of special sanitary requirements for | | | | | | |
| bakehouses (SS. 97 to 100) | 49 | 47 | | | | |
| Other offences | | | | | | |
| Total | 1,036 | 964 | | | | |

2.-DEFECTS FOUND.

* Including those specified in Sections 2, 3, 7, and 8, of the Factory Act as remediable under the Public Health Acts.

† Exclusive of 2,677 visits to 1,007 bakehouses by ward inspectors, and 13 by laboratory clerk

TABLE IVa-continued.

3, 4, 5.-OTHER MATTERS.

| Homework : | Number of |
|---|---------------------------------------|
| List of Outworkers (S. 107) : | Lists. Outworkers. |
| No homeworkers on our register except amongst those engaged in making wearing apparel) Lists received twice in the year ,, once in the year | C. W. 328 392 1669 12 22 71 |
| Addresses of outworkers {received from other Authorities Notices to occupiers not sending lists Prosecutions Inspection of Homeworkers' premises (see table 5a) | 52 4 253 1,158 |
| Homework in unwholesome premises: Instances | 102 102 |
| Homework in infected premises : Instances Orders made (S. 110) Prosecutions (SS. 109, 110) [Infectious cases removed, disinfection both of places and material carried out under ordinary powers]. | 12* 7 |
| Workshops on the Register (S. 131) at the end of year— Ordinary (143 trades) Domestic do. (19 trades) Bakehouses on register as workshops Do. domestic Total number of workshops on Register | 1,072 517 205 802 2,596 |
| Matters notified to H.M. Inspectors of Factories : Failure to affix Abstract of the Factory and Workshop Act (S. 133) Action taken in matters referred by H.M. Inspectors as remediable under the Public Health Acts, but not under the Factory Act (S. 5). Other | 12 112 30 |
| Underground Bakehouses (S. 101) : Certificates granted during the year In use at the end of 1909 | 44 |

* Of these 12, 5 were patients suffering from diphtheria, 1 from scarlet fever, and 1 from typhoid fever; all were removed to hospital, and disinfection of articles carried out. Five were phthisis patients.

TABLE V.

Shewing workshops not previously visited to which visits have been paid during the year, and the sanitary arrangements at time of visit.

| | | DESCRIPTION OF DRAINAGE. | | | Sin | | | | |
|-----------------------|------------------------------------|-----------------------------|--------------|-------|-------------------------------------|---|-------------------|----------|----------------------------|
| | ops to | | | | ins | ide. | out | tside. | hops |
| Date. 1909. | Workshops added to register. | cut off. | not cut off. | none. | w.c. soil-pipe carried up. | w.c. soil-pipe not car- ried up. | Water Closets. | Privies. | Workshops found closed. |
| 4 weeks ended Jan. 30 | 10 | 7 | | 3 | 4 | | 6 | | |
| 4 weeks ended Feb. 27 | 26 | 17 | 3 | 6 | 8 | I | 17 | | |
| 5 weeks ended April 3 | 29 | 18 | 7 | 4 | 11 | 5 | 13 | | |
| 4 weeks ended May I | 27 | 21 | 2 | 4 | 11 | I | 15 | | I |
| 4 weeks ended ,, 29 | 47 | 28 | 6 | 13 | 23 | 2 | 22 | | I |
| 5 weeks ended July 3 | 35 | 29 | 5 | I | 18 | | 17 | | |
| 4 weeks ended ,, 31 | 31 | 21 | I | 9 | 15 | | 16 | | 8 |
| 4 weeks ended Aug. 28 | 12 | 8 | I | 3 | 2 | | 10 | | I |
| 5 weeks ended Oct. 2 | 20 | 13 | I | 6 | 6 | I | 12 | 1 | I |
| 4 weeks ended ,, 30 | 15 | 10 | 3 | 2 | 6 | | 9 | | I |
| 4 weeks ended Nov. 27 | 20 | 11 | 6 | 3 | 10 | I | 9 | | 2 |
| 5 weeks ended Jan. 1 | 35 | 21 | 6 | 8 | 01 | 2 | 22 | I | I |
| Totals | 307 | 204 | 41 | 62 | 124 | 13 | 168 | 2 | 16 |

| Wards | | Complete | Addit | Additional visits about | | | | | |
|----------------|-------|---------------------------------|------------------|-------------------------|------------------|--------|--|--|--|
| Wards. | | of houses on first visit. | work ordered. | infectious disease. | other causes. | Total. | | | |
| Central | | 7 | 2 | 2 | 4 | 15 | | | |
| North | | 36 | 22 | I | 63 | 122 | | | |
| North East | | 33 | 6 | 3 | 38 | 80 | | | |
| East | | 34 | 30 | 2 | 56 | 122 | | | |
| South | | 18 | 7 | | 26 | 51 | | | |
| East Hunslet | | 16 | 8 | | 28 | 52 | | | |
| West Hunslet | · | 67 | 34 | | 70 | 171 | | | |
| Holbeck | | 39 | 16 | I | 53 | 109 | | | |
| Mill Hill | | 2 | | I | 3 | 6 | | | |
| West | | 59 | 31 | 15 | 65 | 170 | | | |
| North West | | 13 | | | II | 24 | | | |
| Brunswick | | 30 | 15 | 9 | τ8 | 72 | | | |
| New Wortley | | 18 | 4 | | 43 | 65 | | | |
| Armley and Wor | tley | 18 | | I | 19 | 38 | | | |
| Bramley | | I | | I | | 2 | | | |
| Headingley | | 13 | 18 | 2 | 26 | 59 | | | |
| Totals | · | 404 | 193 | 38 | 523 | 1,158 | | | |

TABLE Va. (Outworkers) 1909.

Work entirely that of women inspectors.

TABLE Vb.

Other Visits paid by Senior Workshops Inspector and his Assistant on account of

| | Factories. | Workshops. | Workplaces. |
|--------------------------|------------|------------|-------------|
| | | | |
| Non-abatements | 332 | 714 | 37 |
| Drain inspection | | | |
| Drains tested | 17 | 9 | 10 |
| Disease enquiries | 1 39 | 16 | 27 |
| River pollution | | | |
| Complaints | 158 | 167 | 28 |
| Measurement of workrooms | | 3 | |
| Wage enquiries | I | | |
| underground | | 39 | |
| Bakehouses above ground | | 146 | |
| Other causes | 187 | 409 | 114 |
| Appointments | 54 | 24 | 10 |
| TOTAL | 888 | 1,527 | 226 |

Work done.

| | Factories. | Workshops. | Workplaces. |
|-------------------------|---------------|------------|-------------|
| River pollutions abated | ***** | | |
| Nuisances abated | 297 | 277 | 25 |
| Total | 297 | 277 | 25 |

Annual, 1909.

WORK OF WOMEN INSPECTORS.

Infectious diseases.—On account of puerperal fever, 31 houses have been completely examined and 201 other visits paid.

In addition to visiting cases reported during life as cases of puerperal fever, visits were also paid where the death of a puerperal woman was recorded from this disease or some similar cause.

Seventeen midwives and 54 women who, though not certified midwives, had been more or less in contact with puerperal cases, paid visits to the disinfecting station in order to have their persons and clothing disinfected. Their bags and appliances were also disinfected under the personal oversight of our women inspectors. In other cases the clothing of the nurse was sent from the house where the illness occurred to be disinfected at the station.

Two of the houses visited on this account were found to be dirty, and two of them had dirty closets. All of these were cleansed.

Midwives were found to have been in contact with two cases of erysipelas and with one case each of typhoid, diphtheria, measles and pneumonia. Action was taken and the midwives' clothes disinfected in all of these cases.

On account of infectious disease among persons employed 216 visits of enquiry were made to factories, 52 to workshops, 17 to workplaces and 36 to private houses.

Fifty-two visits were made to absent employées in connection with this work.

In the girls' and infants' departments of schools 793 visits of inspection and 250 return visits were made on account of infectious disease. To the houses of absentees 788 visits were paid; and 18 other visits were made in connection with this branch of the work.

Annual, 1909.

Notices to the number of 181 were sent to the offices of the Education Committee informing them of cases where it was considered inadvisable that children should return to school until medical advice had been obtained.

It was necessary to give seven notices for nuisances found. All of these have been complied with.

Outworkers.—Table Va gives, as in previous years, the work of our women inspectors in visiting at their homes persons employed as outworkers. In addition to these visits 39 more were paid to the employers of outworkers.

Seventy-one notices for the cleansing of premises occupied by outworkers were given, and of these 58 were complied with, eight were referred to the District Inspector, and five lapsed because the occupiers had left.

Five structural defects required notices, four of which were complied with during the year. Two notices were given for overcrowding, both of which were complied with. Other sanitary defects to the number of 24 were remedied. Six sanitary defects found in 1908 were also remedied.

Workshops.—There were 567 inspections made of workshops, and 596 other visits were paid.

Eleven notices were given for defective ventilation and eight complied with during the year. Two cases of overcrowding were found and remedied. For cleansing and limewashing 89 notices were given. Of these two lapsed because the occupiers had left, and 77 were complied with.

In the case of 18 other nuisances for which notices have been given 15 have been complied with. Sixteen sanitary defects found in 1908 were also found remedied this year. One visit was paid to a domestic workshop.

Of workshop laundries 31 inspections were made and 63 other visits paid.

Seven notices were given for cleansing and 12 for sanitary defects. All were complied with. Two sanitary defects found in 1908 were also found remedied.

Workplaces.-Of restaurant kitchens 154 inspections were made and 144 other visits paid.

Seven notices were sent on account of defects found and five complied with, while 19 notices were given for cleansing and limewashing, all of which were complied with.

Ten visits were paid to other workplaces.

Factories.—In addition to the 119 factories visited on account of infectious disease, six were visited on complaint, and 10 further visits were paid to them.

For cleansing and limewashing closets 44 notices were given and 43 were complied with.

Twenty-one other sanitary defects were found and remedied.

Infant mortality.—At the beginning of this year (1909) certain streets of a better class of house than most others in the South-East district, and in which the infantile death-rate was lower, were omitted from birth and death enquiries in order that the women inspectors might be able to pay more attention to the poorer parts.

During the year 190 investigations were made of deaths of infants and 231 other visits paid. In connection with this work 17 notices were given to cleanse and limewash, of these 16 have been complied with. Notices for other defects were given to the number of 10. All of these were remedied. Ten nuisances found in 1908 were also found remedied.

Visits to the newly born.—In South East Leeds 870 first visits were made to advise mothers how best to keep their babies in health, and 5,180 other visits were made to these homes.

Annual, 1909.

Fourteen notices for sanitary defects, one for overcrowding and 22 for limewashing and cleansing were given, and in 30 cases the defects were remedied.

Six sanitary defects noticed in 1908 were found to have been removed.

In addition to these visits in South East Leeds 265 first visits and 2,593 other visits were paid in a certain district of West Leeds. Fifteen babies were systematically weighed, 16 others less regularly so.

In October, 1909, "The Leeds Babies' Welcome" was opened in Ellerby Road, since which time one at least of the Women Inspectors has attended once a week to assist in weighing the babies, filling in the charts, giving simple talks to the mothers, etc. It is to be hoped that the "Welcome" will help to materially reduce the infant mortality rate, which is still higher in this district than in any other part of Leeds.

Midwives Act.—Part of the work done in the supervision of midwives has been mentioned already under the heading Infectious diseases.

Thorough inspection of books and bags was made in 120 cases, and 317 visits were paid to midwives.

In addition to 320 other visits paid in connection with this work, 46 interviews took place at the Public Health Offices, and 9 interviews with maternity nurses or uncertified midwives.

The number of midwives who, during January, 1909, notified their intention to practise, was 60. Four others did so later.

During the year one midwife died, 2 were struck off the roll, 2 left the borough, and one was allowed to retire.

Altogether 2,929 cases were attended by certified midwives during the year. This number includes the still-births, of which 79 were notified. It does not include the cases taken by uncertified midwives, many of whom still continued to practise.

II2

Of the 31 cases investigated as puerperal fever 8 were attended by certified midwives. In all, 14 of these cases recovered. Of the cases taken by midwives 2 were fatal.

In such cases special attention has always been given to the disinfection of the bags and their contents, as well as to the clothing and persons of those attending these cases.

Notifications of 79 still-births have been received during the year. Fifty-one of these were inquired into by the women inspectors.

There were 190 notifications of requests for medical assistance, and 12 deaths of infants were notified where no medical practitioner was in attendance.

Reference has already been made to the attention paid to midwives in contact with diseases of an infectious nature.

In consequence of investigation of deaths in the Registrars' Returns 159 visits were paid to ascertain if a midwife had had any connection with the case. This was found to be so in 8 instances.

Sixteen inquests on the deaths of infants and one on that of a mother were attended by the Women Inspectors.

Twenty-four midwives' houses were examined. No sanitary defects were found.

A course of 16 simple lectures was given to midwives at the Nurses' Home, Lovell Street, by the kind permission of the District Nurses Committee. These lectures were well attended.

On June 21st the Lord Mayor and Lady Mayoress very kindly entertained all the Certified Midwives to tea in the Town Hall. Their kindness was much appreciated by all the midwives who were able to be present.

Other work.—On receipt of complaints 5 inspections of houses were made, and 149 other visits were paid. In 29 cases cleanliness was enforced.

Annual, 1909.

A house-to-house inspection was made of 46 houses in Scott Street, and 221 visits were also paid to them; in 24 cases cleanliness was enforced, and in 2 instances other defects were remedied.

In connection with public conveniences for women 8 inspections were made in Parks and 2 return visits paid. One inspection and 3 other visits were made to other lavatories in the town. In all 2 sanitary defects were found and the remedy secured.

In addition to the work already given 48 visits were paid to landlords, and 584 visits were made for various purposes which cannot be classified under any of the previous headings.

TABLE VI.

Ashpits put down for cleansing during the 52 weeks ended 1st January, 1910.

| Requisitions to cleanse sent to Cleansing Sub- Department from Sanitary Office. | Number of latter returned as carried out. | Ashpits not cleansed within four days of requisition. |
|--|--|--|
| 6,062 | 5,931 | 28 |

TABLE VII.

Refuse Removal (same period).

| No. of | No. of | No. of | | LOA | DS REMO | VED. | |
|----------------------|------------------------------------|------------------------------|-----------|-----------------|---------------|----------|---------|
| midden emptyings. | dry ashpit or tub emptyings. | box or pail emptyings. | Total. | Night- soil. | Dry ashes. | Rubbish. | Total. |
| - | 2,111,029 | 12,432 | 2,123,461 | - | - | - | 171,846 |

Destructors, &c.

CLEANSING.

Ashpit cleansing.—Tables VI. and VII. contain the usual information about ashpits. The total loads removed of nightsoil, dry ashes, and rubbish was 171,846, against 172,594 the previous year, 179,813 in 1907, 184,993 in 1906, 191,814 in 1905, and 181,807 in 1904. Of late we have been gradually increasing the number of our larger four-wheeled ashpit wagons. The actual ashpit emptying has increased 11 per cent. since 1908, which was a 53 weeks' year, and nearly 25 per cent. since 1907.

Destructors.—The following work has been done at the four destructors :—

At Armley Road 24,565 loads of rubbish, weighing 21,674.15 tons (0.88 tons or 17.65 cwts. per load) were destroyed during 294 working days. On an average of 12 cells, the work per cell per day would be 6.14 tons. The highest observed temperature was 1,500° Fahr.,* the lowest 620°; average, 1,461°. There were 7,056 observations taken. The firemen employed averaged 12.33 a day, and the amount turned over by each averaged 5.98 tons daily.

At Beckett Street, 25,066 loads of rubbish, weighing 20,249 tons (0.81 tons, or 16.16 cwts. per load) were destroyed in 8 cells during 292 working days, being an average of 8.67 tons per cell per day. The highest observed temperature was 1,500° Fahr.,* the lowest 875°; average 1,485°. There were 7,008 observations taken. The average number of firemen employed was 8.25, and their daily turn over 8.41 tons.

At Kidacre Street, 26,026 loads of rubbish, weighing 21,7837 tons (0.84 tons, or 1674 cwts. per load) were destroyed in 12 cells during 301 working days, being an average of 603 tons per cell per day. There were 7,224 observations of temperature taken, the readings averaged 1,472° Fahr., the highest was 1,500°,* the lowest 610°. The average number of firemen was 11.5, and they turned over an average of 6.29 tons a man daily.

At Meanwood Road, 17,269 loads of rubbish, weighing 14,425'2 tons (0'84 tons, or 16'71 cwts per load) were destroyed

^{*} The pyrometer does not register above 1,500° Fahr.

Cleansing.

in 8 cells during 292 working days, being an average of 618 tons per cell per day. There were 7,008 observations of temperature taken, the readings averaged $1,463^{\circ}$ Fahr., the highest was $1,500^{\circ}$,* the lowest 640°. The average number of firemen was 663, and they turned over an average of 746 tons each day.

Street Cleansing.—This heading is intended to include the work done in the ordinary sweeping and gully cleansing to the paved streets, in the watering of streets and roads, in the cleansing of certain Macadam roads and their gullies, and in the removal of snow.

Mr. Mann reports that during 292 working days, 328,633 street cleansings were effected, an average of 1,125 a day.

The cleansing of gullies was equivalent to cleansing 223,272 or an average of 765 per day; charges of disinfectant were applied to all gullies cleansed. In addition to this, 90,232 loads of street refuse were carted away (309 a day), and 113,606 cleansings of courts and yards were effected, an average of 389 a day.

The number of horse-days for street cleansing was 29,690 and for watering 4,679, being an average of 102 and (during 82 days) 57 horses a day respectively.

During the 82 street watering days 90,411 barrels of water were used.

The work done in connection with the unpaved streets has not been kept separate from the rest of the street cleansing work. In 1908 the total cleansing of streets and macadam roads was equivalent to the cleansing of 361,055 streets or roads. The total for this year is only 328,633, but as 53,272 loads of snow were removed in 1909, as against 8,517 in 1908, a certain amount of cleansing of streets was done in this way which is not put down in the ordinary street scavenging account.

During the 52 weeks, the sub-department removed 53,272 loads of snow.

^{*} The pyrometer does not register above 1.500° Fahr.

Food examination.

COWSHEDS AND DAIRIES.

Examination of food, etc.—Table VIII. shows the work of dairy inspection. Table VIII a. of the special veterinary inspection of cattle in regard to the condition of their udders. Table VIII b. shows the result obtained in the examination for tubercle of milk sold in Leeds. As the subject of tubercle is treated somewhat at length in the earlier part of the report, it has been considered this year convenient to transfer the account of the work done in the biological examination of milk and the inspection of cows to that portion of the report. This will be found in pages 44 to 72.

Food and drugs.—Tables IX., IX a., IX c., deal with the chemical analyses of foods and the proceedings taken under the Food and Drugs Acts. In Table IX. we have an entire blank in the column "poor in quality," and in regard to milk, a somewhat large proportion of samples are labelled "adulterated" (24 per cent.). Many of these would at one time have been included amongst the genuine, but "poor in quality." In nearly every case the milks entered some years ago as "poor in quality" were really adulterated. The statements as given in the table are probably nearer the truth than if we transferred them to the heading "poor in quality" as some do.

TABLE VIII.

Work done in connection with the Cowsheds and Dairies Order during the 52 weeks ended 1st January, 1910.

| Cowkeepers on the register | | | | 133 | |
|-------------------------------|--------|---------|------|-----|--|
| Milk-retailers " | | | | 428 | |
| Visits to cowsheds | | | | 517 | |
| " " (veterina | ry) | | | 549 | |
| " milkshops | | | | 697 | |
| " railway stations | | | | 146 | |
| Cowkeepers discontinued bu | siness | | | б | |
| New cowkeepers registered | | | | 8 | |
| New cowsheds built | | | | 2 | |
| Cowsheds reconstructed an | d pro | ovided | with | | |
| additional light, ventilation | 1 and | draina | ge | 4 | |
| Farms or milkshops visited | | account | of . | | |
| infectious disease | | | | 32 | |
| | | | | | |

TABLE VIIIa.

Veterinary inspection of Cattle, year ended 1st Jan., 1910.

| | | | Cattle | e and Conc | lition. | |
|-----------------------|-----------------|--------|-----------------|--------------------|-----------------------------|------------------------|
| Date of Inspection | Register No. | Ward. | No. Examined | Udder diseased. | General Condition | Condition of Shed. |
| 1909. Jan. 2. | 591 | Hdy. | 1 2 | I Ctuber- | others healthy. | |
| Jan. 5. | 400 | Bmy. | I | (tuber- culous) | (See Dec. 24th, 1908) | |
| Jan. 6. | 522 | ,, | 5 | | healthy | Satisfactory. |
| ,, | 51 | ,, | 5 | | ,, | Do. |
| " | 147 | ,, | 7 | | ,, | Do. |
| ,, | 410 | ,, | 6 | | ,, | Do. |
| " | 70 | ,, | 5 | | >> | Do. |
| " | 63 | ,, | | | ,, | Do. |
| " | 360 | ,, | 26 | | ,, | Do. |
| " | 209 | ,, | | | h | unoccupied. |
| ,, | 352 | ,, | 8 | | healthy | Satisfactory |
| " | 337 | ,, | 23 | | >> | Do. |
| " | 227a | ,, | 9 | | " | Do |
| " | 227b | " | 6 | | ,, others | Do. Do. |
| ,, | 470 | ,, | 4 | I (mastitis) | healthy. | D0. |
| Jan. 7. | 136 | N.E. | 13 | | healthy | Do. |
| Jan. 14. | 67 | Ν. | 6 | | ,, | Do. |
| ,, | 170 | ,, | 22 | | ,, | Do. |
| ,, | 543 | ,, | 23 | | ,, | Do. |
| Jan. 18. | 591 | Hdy. | IO | | ,, | Fairly clean. |
| ,, | 393 | ,, | 36 | | ,, | Satisfactory. |
| ,, | 544 | Ν. | I 2 | | ,,, | Do. |
| Jan. 19. | 90 | E. | 26 | I (tuber- | others healthy. | Do. |
| | - | | | culous) | | D |
| | 172 | *** | 31 | | healthy | Do. |
| Jan. 20. | 406 | W.H. | 17 | | ,, | Do. |
| " | 430 | Bmy. | 15 | | ,, | Do. |
| " | 332 | W.H. | 55 | | ,, | Do. |
| Ian "at | 96 812 | Hdy. | 8 | | " | Do. Do. |
| Jan. 21. | 88 | N.W. | 4 | | ,, | Do. |
| ,, | | Hdy. | 26 6 | | ,, | Do. |
| ,, | 17 284 | N.W. | 22 | | ,, | Do. |
| ,, | 49 | | | | " | Do. |
| " | 213 | Hdy. | 24 5 | | ,, | Do. |
| " | 609 | | 15 | | ,, | Do. |
| " | 347 | " " | 15 | | " | Do. |
| Feb. 2. | 266 | E.H. | 3 | | , | Do. |
| ,, | 557 | .,, | 11 | | ** . | Do. |
| ,, | 835 | S. | 12 | | ,, | Do. |
| Feb. 3. | 353 | Hdy. | 12 | | ,, | Do. |
| ,, | 75 | ,, | 18 | | ,, | Floor and walls dirty. |
| " | 338 | N. | 2 | | ,, | Satisfactory. |
| | | | | | | |

| | 1 | 1 | Cattle | e and Con | lition. | |
|------------------------|-----------------|--------|------------------------------|----------------------------|--|-------------------------------------|
| Date of Inspection. | Register No. | Ward. | No. Examined | Udder diseased. | General Condition | Condition of Shed. |
| 1909. | | | | | | |
| Feb. 3. | 738 | Hdy. | 4 | | healthy | Satisfactory. |
| ,, | 195 | N. | 18 | | ,, | Do. |
| ,, | 167C | Hdy. | 22 | | ,, | Floors and walls dirty. |
| ,, | 912 | ,, | 16 | | ,, | Satisfactory. |
| ,, | 146 | ,, | 32 | | ,, | Do. |
| " | 592 | ,, | 12 | | I (tuber- culous). others healthy. | Do. |
| | 591 | - ,, | 10 | | healthy | Do. |
| " | 676 | ,, | 10 | | ,, | Do. |
| | 550 | ,, | 14 | | | Do. |
| Feb. 5. | 372 | A. &W. | 4 | | " | Do. |
| Feb. 9 | 39 | N. | 2 | | " | Do. |
| Feb. 10. | 75 | Hdy. | 0 | | (See Feb. 3rd). | Shed being cleaned and whitewashed. |
| ,, | 522 | N. | 25* | | healthy | Satisfactory. |
| Feb. 11. | 85 | Hol. | 8 | | ,, | Do. |
| ,, | 150 | ,, | 15 | | ,, | Do. |
| , | Ğ4 | W.H. | 8 | I (? tuber- culous). | (others healthy) | Dirty. |
| ., | 135 | ,, | 10 | | healthy | Satisfactory. |
| " | 390 | ,, | 12 | | ,, | Do. |
| ,, | 392 | ,, | 7 | | ,, | Do. |
| " | 43 | " | 37 | I (?tuber- culous). | others healthy. | Do |
| ,, | 522 | N. | I (tuberculin tested.) | | (Sce Feb. 10th) | |
| Feb. 12. | 522 | · ,, | I | I (tuber- culous). | " | |
| ,, | 196 | ,, | 2 I | | healthy | Satisfactory. |
| ,, | 94 | Hdy. | 13 | | ,, | Do. |
| Feb. 15. | 256 | A.& W. | 8 | | ,, | Do. |
| ,, | 708 | ,, | 16 | | ,, | Do. |
| " | 126 | Bmy. | 14 | I (?tuber- culous.) | others hea:thy. | Do. |
| ,, | 36 | ,, | 3 | | healthy | Do. |
| " | 99 | A. &W. | 24 | | ,, | Do. |
| " | 38 | ,, | 25 | | ,, | Do. |
| Feb. 16. | 43 | WH. | I | | (See Feb. 11th) | |
| " | 64 | ,, | I | recovered. | | Cleaner. |
| " | 585 | " | 15 | I (ttuber- culous). | others healthy but dirty. | Dirty. |
| " | 378 | ,, | 6 | curous). | healthy | Satisfactory. |
| ,, | 439 | E.H. | 35 | | | Do. |
| " | 633 | ,, | 9 | I | others healthy | Do. |
| ., | 55 | ., | - | (?tuber- culous). | healthy. | |

TABLE VIII a.-Continued.

* One cow (?tuberculous udder) isolated by owner. Arranged to test.

TABLE VIII a .- Continued.

| | | | Cattle | and Cond | Cattle and Condition. | | | | | |
|------------------------|-----------------|--------|-----------------|-------------------------|------------------------------|-------------------------------------|--|--|--|--|
| Date of Inspection. | Register No. | Ward. | No. Examined | Udder diseased. | General Condition | Condition of Shed. | | | | |
| 1909. | | | | | | and the second second second second | | | | |
| Feb. 17. | 249 | Bmy. | .9 | | healthy but dirty, | Dirty. | | | | |
| ,, | 92 | ,, | 3 | | healthy | Satisfactory. | | | | |
| ., | 801 | ,, | 4 | | ,, | Do. | | | | |
| ,, | 407 | ,, | 4 | | ,, | Do. | | | | |
| ,, | 665 | Ν. | 18 | | ,, | Do. | | | | |
| ,, | 4 | ,, | 14 | | ., | Do. | | | | |
| ,, | 543 | .,, | 26 | | ,, | Do. | | | | |
| ,, | 173 | Bmy. | 17 | | ,, | Do. | | | | |
| ,, | 909 | ,, | 15 | | ,, | Do. | | | | |
| ,, | 77 | - ,, | 29 | | ,, | Do. | | | | |
| ,, | 635 | ,, | 13 | | ,, | Do. | | | | |
| ,, | 78 | ,, | 23 | | ,, | Do. | | | | |
| ,, | 199a | ,, | 13 | | ,, | Do. | | | | |
| ,, | 400 | ,, | 27 | | ,, | Do. | | | | |
| ,, | 73 | ,, | 26 | | ,, | Do. | | | | |
| ,, | 126 | ,, | I | (tubercalin tested). | (See Feb. 15th) | | | | | |
| Feb. 18 | 126 | " | I | I (tuber- culous) | ,, | | | | | |
| ,, | 148 | ,, | 13 | ···· | healthy | Dirty. | | | | |
| | 141 | - ,, | 19 | | | Satisfactory. | | | | |
| Feb. 23. | 585 | W.H. | I | | (See Feb. 16th) | | | | | |
| | 633 | E.H. | I | not tuber- | reo, 16(11) | | | | | |
| Feb. 24. | 104 | A.& W. | 19 | culous) | healthy | Satisfactory. | | | | |
| ,, | 431 | ,, | 32 | | | Do. | | | | |
| ,, | 813 | | 39 | | " | Do. | | | | |
| | 321 | Hdy. | 13 | | " | Do. | | | | |
| " | 35 | W. | 9 | | " | Do. | | | | |
| Feb. 25. | 351 | E. | 13 | | ,, | Walls dirty. | | | | |
| | 101 | | 15 | | " | Satisfactory. | | | | |
| ,, | 478 | N.E. | 23 | | " | Do. | | | | |
| ** | 136 | | 12 | | " | Do. | | | | |
| ,, | 220 | | 22 | | " | Do. | | | | |
| , ,, | 137 | | 25 | | ,, | Do. | | | | |
| ,, | 585 | W.H. | -5 I | tuberculin | (Sec | 1.0. | | | | |
| Feb. 26. | 585 | | I | (not tuber- | Feb. 23rd) | | | | | |
| | | E.H. | | culous) | healthy | Do. | | | | |
| Feb. 27. | 159 | N. | 23 I | | | 170. | | | | |
| Mar. 3. | 543 | N.E. | | | ,, | Do. | | | | |
| | 295 | 14.12. | 9 | | (tuber- culous) others | 170. | | | | |
| | 0 | | | | healthy. | Da | | | | |
| Mar | 138 | | 46 | | healthy | Do. | | | | |
| Mar. 4. | 765 | Bmy. | II | | ,, | Do. | | | | |
| " | 398 | " | 12 | | ,, | Do. | | | | |
| " | 199b | ,, | 23 | | ,, | Do. | | | | |
| " | 318 | ,, | 23 | | ,, | Do. | | | | |

| 1 | | | Cattle | e and Conc | lition. | |
|------------------------|-----------------|--------|-----------------|--------------------|--|----------------------|
| Date of Inspection. | Register No. | Ward. | No. Examined | Udder diseased. | General Condition | Condition of Shed. |
| 1909. | | | 12 | | | |
| Mar. 4. | 127 | Bmy. | 26 | ••• | healthy | |
| | | | 1 | | | satisfactory. |
| " | 120 | ** | 24 | | " | Satisfactory. |
| " | 128 | 2.5 | 4 | | " | Do. |
| " | 515 287 | A. &W. | 8 8 | | ,, | Do. |
| Mar. 5. | 153 | C. | 8 | | " | Clean, but confined. |
| | . 55 | | 5 | | " | Satisfactory. |
| " | 1 66 | " | 11 | | ,, | Do. |
| ,, | 553 | Bnk. | 18 | | | Do. |
| Mar. 8. | 295 | N.E | I | | (See Mar. 3rd) | |
| Mar. 9. | 39 | N. | 35 | | healthy | Do. |
| Mar. 11. | 590 | E. | 5 | | ,, | Do. |
| " | 329 | ,, | 0 | | | |
| ,, | 90 | ,, | 28 | | ,, | Do. |
| " | 19 | ,, | 20 | · ··· · | >> | Do. |
| ,, | 145 | ,, | 28 | | " | Do. |
| " | 964 | ,, | 16 | | | Do. |
| | 172 | | 33 | | " | Do. |
| Mar. 13 | 45 | N. | 14 | | I (?tuber- culous) others healthy. | Do. |
| ., | 739 | . ,, | 15 | | healthy | Do. |
| ,, | 553 | ,, | 23 | | ,, | Do. |
| ,, | 896 | ,, | 8 | | ,, | Do. |
| ,, | 343b | , | 24 | | ,, | Do. |
| ,, | 343a | ,, | 15 | | ,, | Do. |
| | 602 | | 2 I | | ,, | Do. |
| Mar. 16. | 243 | Bmy. | 9 | | " | Do. |
| " | 201 682a | , | 20 | | | Do. |
| 17 | 822 | | 10 | | >> | Do. |
| | 200 | ,, | 10 | | ,, ,, | Fairly clean. |
| ,, ,, | 21 | " | 8 | | ,, | Satisfactory. |
| ,, | 574 | ,, | 14 | | ,, | Do. |
| ,, | 408 | ,, | 15 | | ,, | Do. |
| ,, | 682b | ,, | 6 | | ,, | Clean. |
| ,, | 88 | Hdy. | 20 | | ,, | Satisfactory. |
| ,, | 45 | N. | I | | (See Mar, 13th) | |
| Mar. 17. | 63 | Bmy. | .5 | | healthy | Fairly clean. |
| ,, | 360 | ,, | 24 | | ,, | Satisfactory. |
| , ,, | 352 | ,, | 9 | | . ,, | Do. |
| ,, | 337 | . ,, | 2 I | | ,, | Do. |
| ,, | 227a | | 9 | ••• | ,, | Do. |
| | 227b | . ,, | 5 | | ,, | Do. |
| ,, | 470 | | 3 | | | Do. |

TABLE VIII a.-Continued.

| TABLE | VIII a | -Continued. |
|-------|--------|-------------|
|-------|--------|-------------|

| | | | Cattl | e and Conc | lition. | |
|------------------------|-----------------|---------|----------|-----------------------|-------------------------------|----------------------|
| Date of Inspection. | Register No. | Ward. | No. | Udder diseased. | General | Condition of Shed. |
| | | | Examined | uiseaseu. | Condition | |
| 1909. | | | | | | |
| Mar. 17. | 322 | Bmy. | 5 | | healthy | |
| " | 51 | " | 6 | | " | Do. |
| " | 410 | " | 5 8 | | " | Do. Do. |
| " | 147 | ,, | | | " | Do. |
| " | 70 389 | ,, | 5 | | ,, | Do. |
| Mar. 18. | | A.&W. | 4 | | " | Do. |
| | 246b | | 6 | | " | Do. |
| ,, | 246a | | 10 | | ,, | Do. |
| " | 402 | ,, | II | I | others healthy. | Do. |
| | | | - | (mastitis) | | Do. |
| " | 593 | " | 7 | I (mastitis) | " | D0. |
| ,, | 45 | Ν. | I | Tuberculin tested. | (See Mar. 16th) (tuber- | |
| Mar. 19. | 45 | " | I | | culous) | |
| Mar. 24. | 3+7 | Hdy. | 5 | | healthy | Satisfactory |
| " | 196 | N. | 22 | | " | Do. |
| ,, | 544 | | I 2 | | ,, | Dirty. |
| " | 812 | Hdy. | 4 | | ,, | Do. |
| " | 88 | N.W. | 28 | | " | Satisfactory. Do. |
| " | 17 284 | ,, | 5 | | ,, | Do. |
| " | | " | 21 | | •• | Do. |
| " | 49 609 | Hdy. | 14 | | ,, | Do. |
| " | 213 | | 4 | | ,, | Do. |
| " | 393 | " " | 36 | | " | Do. |
| Mar." 25. | 295 | N.E. | 8 | | ,, | Do. |
| ,, | 136 | ,, | 14 | | ,, | Do. |
| ,, | 220 | ,, | 22 | | ,, | Do. |
| ,, | 137 | ,, | 25 | | ,, | Do. |
| ,, | 138 | ,, | 46 | | ,, | Do. |
| Mar. 26. | 665 | N. | 17 | | ,, | Do. |
| ,. | 4 | ,, | 14 | • | ,, | Do. |
| ,, | 67 | " | 5 | | ,, | Do. |
| ,,, | 170 | •• | 22 | | ,, | Do. |
| Man" an | 543 | ," E | 24 | | " | Do. Do. |
| Mar. 29. | 351 | Е. | 10 | | " | Do. |
| " | 101 | N.Ë. | 15 22 | | " | Do. |
| Mar. 30. | 478 430 | Bmy. | 15 | | " | Do. |
| 1 | 332 | W.H. | 55 | | ,, | Do. |
| " | 334 96 | | 33 8 | | ,, | Do. |
| " | 406 | " " | 12 | | " | Dirty. |
| Mar. 31. | 173 | Bmy. | 18 | | ,, | Satisfactory. |
| ,, | 909 | ,, | 16 | | ,, | Do. |
| ,, | 77 | ,, | 33 | | ,, | Do. |
| " | 635 | " | 13 | | ,, | Do. |
| | | | | | | |

.

| | | | Cattle | e and Cond | lition. | |
|------------------------|-----------------|---------|-----------------|--------------------------|----------------------|--------------------|
| Date of Inspection. | Register No. | Ward. | No. Examined | Udder diseased. | General Condition | Condition of Shed. |
| 1909. Mar. 31. | 78 | Bmy. | 23 | | healthy | Satisfactory. |
| " | 199a | ,, | 14 | | ,, | Do. |
| ,, | 249 | ,, | 9 | | ,, | Cleaner. |
| " | 400 | ,, | 27 | | ,, | Satisfactory. |
| ,, | 73 | ,, | 25 | | ,, | Do. |
| April 1. | 714 | Hdy. | 10 | | ,, | Do. |
| " | 167b | ,, | 23 | | " | Do. |
| " | 912 | ,, | 16 | | " | Do. |
| " | 146 | ,, . | 33 | | ,, others | Do. |
| " | 591 | " | 12 | I (!tuber- culous) | healthy. | Do. |
| ,, | 592 | ,, | 11 | ••• | healthy | Do. |
| ,, | 353 | ,, | 15 | | ,, | Do. |
| ,, | 676 | ,, | 9 | | ,, | Do. |
| ,, | 550 | ,, | 14 | | ,, | Do. |
| ,, | 338 | N. | 2 | | ,, | Do. |
| " | 738 | Hdy. | 5 | | ,, | Do. |
| April 2. | 557 | E.H. | II | | ,, | Do. |
| ,, | 266 | ,, | 4 | | ,, | Do. |
| | 835 | S. , | I 2 | | ,,, | Do. |
| April 6. | 591 | Hdy. | I | I (tuber- culous) | (Sec. April 1st) | |
| April 7. | 94 | ,, | II | | healthy | Satisfactory. |
| , | 522 | N. | 23 | | ,, | Do. |
| ,, | 195 | ,, | 19 | | ,, | Do. |
| ,, | 104 | A. & W. | 20 | | ,, | Do. |
| ,, | 431 | ,, | 31 | | ,, | Do. |
| ,, | 813 | ,, | 39 | | ,, | Do. |
| " | 164 | Hdy. | 2 | | ,, | Do. |
| " | 321 | ? | 15 | | " | Do. |
| | 35 | W. | 10 | | ,, (See | Do. |
| April 8. | 45 | N. | I | | Mar. 19th | Carliefactory |
| ,, | 553 | Bnk. | out | | | Satisfactory. |
| " | 39 | N. | 28 cows | | healthy | Do. |
| April 14 | 75 | Hdy. | out | | healthy | Do. Do. |
| April 14. April 15. | 136 | N.E. | 12 | tuberculin | | D0. |
| April 15. April 16. | 136 | " | 12 | tested | | |
| April 23. | 136 | | 12 | | healthy | Satisfactory. |
| 11pm 23. | 343a 602 | | 17 22 | | - | Do. |
| April 24. | 633 | E.H | 9 | | " | Do. |
| April 28. | 64 | W.H. | 7 | | ** | Do. |
| ,, | 135 | | 10 | | " | Do. |
| " | 390 | " | 14 | | " | Do. |
| ,, | 392 | ,, | 6 | | ,, | Do. |
| | 07- | | | | ,, | |
| | | | | | | |

TABLE VIII a .- Continued.

TABLE VIII a .- Continued.

| | | | Cattle | e and Cone | lition. | and the second second | |
|------------------------|-----------------|--------|-----------------|----------------------|----------------------|-----------------------|----------|
| Date of Inspection. | Register No. | Ward. | No. Examined | Udder diseased. | General Condition | Condition | of Shed. |
| 1909. | | | | | | 0.00 | |
| April 28. | 43 | W.H. | 34 | | healthy | | 1 1 |
| ,,, | 150 | Hol. | 13 | 2.4.4 | ,, | Do. | |
| April 29. | 127 | Bmy. | 26 | | , ,, | Do. | |
| " | 120 | ", | 22 | | ,, | Do. | |
| " | 128 | ,, | 3 | *** | . 32 | Do. | |
| ,, | 515 | | 9 | | " | Do. | |
| " | 34 | A.&W. | 0 | | 37 | Do. | |
| >> | 801 | Bmy. | 5 | | 33 | Do. | |
| ,, | 407 | ,, | 2 | | ,, | Do. | |
| ** | 92 | ,, | 4 | | others | Do. | |
| " | 765 | " | II | (tuber- culous) | healthy. | Do. | |
| ,, | 585 | ,, | 15 | | healthy | Do. | |
| | 199b | ,, | 2 2 | | . >> | Do. | |
| April 30. | 243 | . ,, | .9 | | ., | Do. | |
| ,, | 201 | ,, | I | | - >> | Do. | |
| ,, | 682a | . ,, | 19 | | ,, | Do. | |
| " | 822 | ,, | 10 | | ,, | Do. | |
| ,, | 209 | ,, | IO | | ,, | Do. | |
| ,, | 2 I | Е.Н. | 7 | | ,, | Do. | |
| May 4. | 159 | | 22 | • • • | ,, | Do. | |
| ,, | 378 | W.H. | 6 | | ,, | Dirty. | |
| ,, | 493 | E.H. | 31 | | ,, | Satisfactory. | |
| May 5. | 120 | Bmy. | 22 | | ,, | Do. | |
| ,, | 34 | A.& W. | 3 | | ,, | Do. | |
| May 6. | 322 | Bmy. | cows out. | | | Do. | |
| " | 51 | . ,1 | , | | | Do. | |
| ,, | 147 | >> | . 33 | | | Do. | |
| ,, | 410 | " | " | | | Do. | |
| ,, | 70 | , | 5 | | healthy | Do. | |
| ,, | 574 | ,, | 14 | | ,, | Do. | |
| ,, | 408 | ,, | cows out. | | | Do. | |
| ,, | 389 | ,, | " | | | Do. | |
| ,, | 63 | ,, | 6 | | healthy | Do. | |
| ,, | 681 | 22 | 5 | | ,, | Do. | |
| ,, | 360 | ,, | 24 | | ,, | Do. | |
| ,, | 352 | ,, | 8 | *** | ,, | Do. | |
| ,, | 337 | " | cows out | | | Do. | |
| ,, | 227a | | 9 | | healthy | Do. | |
| " | 227b | . ,, | 5 | | 2, | Do. | |
| "" | 470 | ,, | 3 | | ,, | Do. | |
| " | 682b | | cows out. | | | Do. | |
| ,, | 553 | Bnk. | ,, | tabanalin | | Do. | |
| ,, | 120 | Bmy. | IO | tuberculin tested | 100 | | |
| May 7. | 120 | , | ΙO | | | | |
| | | | | | | | |

| | | | Cattle | and Cond | lition. | | |
|------------------------|-----------------|---------|-----------------|-------------------------|----------------------|-------------------------|--------------|
| Date of Inspection. | Register No. | Ward. | No. Examined | | General Condition | Condition of Shed. | |
| 1909. | | | | | | | |
| May 7. | 708 | A. & W. | 14 | | healthy | Satisfactory. | |
| ,, | 765 | Bmy. | I | | (See April 29th) | | |
| May 11. | 120 | ,, | 8 | tuberculin tested | | | |
| May 12. | 120 | ,, | 8 | | | ~ | |
| ,, | 322 | • • • • | 56 | | healthy | Satisfactory. | |
| " | 51 | >> | | | 23 | Do. | |
| . " | 147 | ,, | 7 | | " | Do. | |
| " | 408 | ,, | 15 | | ,, | Do. | |
| ,, | 141 | " | 20 | | ,, | Do. | |
| " | 318 | " | 24 | | " | Do. | Shada faisla |
| ,, | 148 | ,, | 15 | | >> | Cows dirty. | Sheds fairly |
| Man | 1.06 | W.H. | .6 | | | clean. Satisfactory. | |
| May 27. | 406 | N.H. | 16 | | " | Do. | |
| May 28. | 553 | 1. | 24 | | " | Do. | |
| Juno o | 45 | . " | 13 | | " | Do. | |
| June 9 | 170 | " | 21 | 2. | " | Do. | |
| ;; | 67 | " | I | I (mastitis) | | 170. | |
| June 10. | 153 | C. | 5 | | healthy | | |
| ,, | 7 | ,, | 5 | | ,, | Satisfactory. | |
| ,, | 66 | ,, | 12 | | ,, | Do. | |
| June 11. | 136 | N.E. | I | I (tuber- culous) | | Do. | |
| June 15. | 67 | Ν. | I | Recovered | (See June 9th) | | |
| June 16. | 136 | N.E. | 14 | | healthy | Satisfactory. | |
| ,, | 220 | ,, | 19 | | .,, | Do. | |
| ,, | 137 | ,, | 22 | | ,, | Do. | |
| June 18. | 896 | N. | 9 | | ,, | Do. | |
| ,, | 343b | . ,, | 25 | | ,, | Do. | |
| June 22. | 120 | Bmy. | 21 | | ,, | Do. | |
| June 30. | 590 | E. | 6 | | ,, | Do. | |
| ,, | 172 | ,, | 29 | | ,, | Do. | |
| " | 19 | " | 18 | | " | Do. | |
| ,, | 145 | " | 27 cows | | ,, | Do. | |
| , | 964 | | out. | | 111 | Do. | |
| July 1. | 120 | Bmy. | 2 I | ••• | healthy | Do. | |
| July 6. | 351 | E. | 9 | ••• | 33 | Do. | |
| " | 101 | N 12 | 15 | | ,, | Do. | |
| | 478 | N.E. | 19 | | " | Do. | |
| July 13. | 145 | E | I | I (mastitis) | | | |
| July 14. | 126 | Bmy. | cows out | | | Satisfactory. | |
| ,, | 36 | ,, | 3 | | healthy | Do. | |
| ,, | 99 | A. &W. | 22 | | ,, | Do. | |
| ,, | 38 | ,, | 19 | | ,, | Do. | |
| ,, | 256 | . ,, | 6 | | ,. | Do. | |
| line a lane and | | | | | | | |

TABLE VIII a. - Continued.

| TABLE VIII | aContinued. |
|------------|-------------|
|------------|-------------|

| | | | Cattle | e and Cond | lition. | |
|------------------------|-----------------|--|-----------------|----------------------|----------------------|----------------------|
| Date of Inspection. | Register No. | Ward. | No. Examined | Udder diseased. | General Condition | Condition of Shed. |
| 1909. | 0 | | | | | 0.10.1 |
| July 14. | 287 | A. &W. | 4 | | healthy | Satisfactory. |
| July 28. | 145 | E. N.W. | I | | (See July 13th) | Satisfactory |
| July 29. | 616 680 | Bnk. | 19 | | healthy | Satisfactory. Do. |
| Aug." = | | E. | 2 | | ,, | Do. |
| Aug. 5. | 90 | | 21 | I | others | Do. |
| " | 964 | " | 14 | (tuber- | healthy | 10. |
| Aug. 6. | 138 | N.E. | 48 | culous) | healthy | Satisfactory |
| | 665 | N. | 18 | | | outionactory |
| " | 170 | ,, | 25 | | " | Satisfactory. |
| Aug. 9. | | ,, | 14 | | | Do. |
| Aug. 10. | 389 | Hdy. | 12 | | " | Do. |
| ,,, | 682b | | 8 | | ,, | Clean. |
| " | 167a | | 19 | | ,, | Satisfactory. |
| Aug. 12. | 909 | Bmy. | 15 | I | others healthy. | Do. |
| | | | | (? tuber- culous) | | |
| ,, | 402 | A. &W. | 10 | | healthy | Do. |
| ,, | 246b | ,, | 6 | | ,, | Do. |
| ,, | 246a | ,, | 10 | | ,, | Do. |
| ,, | 593 | ,, | 7 | I | others healthy. | Do. |
| | | D | | (tuber- culous) | | 0.000 |
| Aug. 23. | 430 | Bmy. | 13 | | healthy | |
| " | 332 | W.H. | 54 | | " | Do. |
| " | 96 | ,, | 8 | | ,, | Do. |
| | 406 | | 15 | | ,, | Do. Do. |
| Aug. 25. | 410 | Bmy. | 7 | | " | Do. |
| " | 147 | " | 7 | | ,, | Do. |
| ,, | 337 | " | 20 | | " | Do. |
| Aug " 26 | 126 | ", Hdv | 14 | | " | Do. |
| Aug. 26. | 550 | Hdy. N. | 13 | | " | Do. |
| Aug." 31. | 338 | A. &W. | 6 | | " | Do. |
| 1 | 593 10 | | | | " | Do. |
| " | 372 | " | 4 | | ,, | Do. |
| Sept. 7. | 295 | N.E. | 8 | | ,, | Do. |
| | 136 | and the second s | 12 | | " | Do. |
| " | 220 | " | 18 | | " | Do. |
| " | 1 37 | " | 16 | | ,, | Do. |
| Sept. 8. | 75 | Hdy. | 15 | | ,, | Do. |
| | 195 | N. | cows out. | | ,,, | Do. |
| Sept. 10. | 45 | ,, | I 3 | | healthy | |
| ,,, | 739 | . ,, | _ | | | Pulled down. |
| | 553 | ,, | cows out. | | | Satisfactory. |
| Sept. 22. | 64 | W.H. | 8 | | healthy | Do. |
| ,,, | 677 | ,, | 4 | | ,, | Do. |
| | | N. | | | | |

TABLE VIII a. - Continued.

| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | - | | | | Cattle | e and Cone | lition. | | |
|---|-----|-------|--|---------|--------------|---------------|-------------------------------|---------------|-------------|
| Sep. 22. 135 W.H. 6 healthy Satisfactory. " 390 " 24 " " Do. " 392 " 7 " " Do. " 43 " 33 " " Do. " 150 Hol. 7 " " Do. " 4 N. 13 " beadity. Do. " 4 N. 13 " healthy Do. " 4 N. 13 " healthy Do. " 4 N. 32 " " Do. " 378 W.H. " " Do. Satisfactory. " 389 12 " healthy Satisfactory. Some cows dirty, shed " " " " " Do. Do. " " " " " Do. Do. " " | | | | Ward. | | | | Condition | of Shed. |
| n 390 n 24 n Do. n 392 n 7 n Do. n 43 n 33 n Do. n 150 Hcl. 7 n Do. n 167a Hdy. 20 1 mealthy Do. 0ct. 4 N. 13 n Do. n 493 n 32 n Do. n 633 n 9 n Do. n 633 n 9 n Do. n 633 9 n Do. Satisfactory. 0ct. 13 35 W. 9 healthy Satisfactory. n 167a 19 n Do. Do. n 678 N. 6 healthy Do. n 10 n | | | | WH | 6 | | haalthu | Satisfactory | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | Sep | . 22. | | w.n. | | | nearthy | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | 1. 1. 2. | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | 1995 | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | 11 | | | |
| " 4 N. 13 healthy Do. " 493 " 32 " " Do. " 633 " 9 " " Do. " 378 W.H. cours " " Do. " 378 W.H. cours " " Do. " 378 W.H. outs " " Do. " 378 W.H. 4 " " " " Do. " 312 Hdy. 4 " " Satisfactory. Satisfactory. " " " " " " Do. Do. Oct. 15. 5.5. | Oct | | | | | I (?tuber- | others | | |
| Oct. 12. 159 E.H. 23 ,, Do. ,, 493 ,, 32 ,, Do. ,, 633 ,, 9 ,, Do. ,, 378 W.H. $coust.$,, Do. ,, 378 W.H. $coust.$,, Do. ,, 312 Hdy. 4 ,, Floot dirty. ,, $167a$,, 19 ,, Satisfactory. ,, 389 ,, 12 healthy Satisfactory. ,, 3896 ,, $out.$ Do. Do. ,, 553 Bnk. 17 f tabeling Do. Do. ,, 575 $8nk$ 16 ,, Do. ,, 196 N. 21 healthy Satisfactory. ,, 196 N. 21 <t< td=""><td></td><td></td><td></td><td>N</td><td>12</td><td></td><td>healthy</td><td>Do</td><td></td></t<> | | | | N | 12 | | healthy | Do | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | Oct | | | | | - | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 000 | | | | | | 1992 | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | cows | | ,, | | |
| , 812 Hdy. 4 , Some cows dirty, sheed dirty. ,, $167a$,, 19 ,, Satisfactory. ,, 389 ,, 12 healthy Satisfactory. ,, 389 ,, 12 healthy Satisfactory. ,, 896 ,, $corres$ Do. Do. ,, 553 Bnk. 17 I others bally ,, 678 N. 6 healthy Satisfactory. Oct. 19 553 Bnk. 16 100 . ,, 678 N. 6 healthy Satisfactory. Oct. 21 544 N. 11 7 100 . ,, 196 N. 21 100 . 567 100 . ,, 196 N. 21 100 . 90 . ,, | Oct | | | | | | healthy | | |
| ,, 167a ,, 19 ,, Satisfactory. ,, ,, 389 ,, 12 healthy Satisfactory. ,, ,, 896 ,, $out.$ Do. Do. ,, 896 ,, $out.$ Do. Do. ,, 553 Bnk. 17 I others Do. ,, 678 N. 6 healthy Satisfactory. Oct. 19. 553 Bnk. 16 Do. Oct. 19. 553 Bnk. 16 Do. Oct. 19. 553 Bnk. 16 Bealthy Satisfactory. ,, 196 N. 21 healthy Do. Satisfactory. ,, 196 N. 21 , Do. Satisfactory. ,, 196 N. 21 , Do. | 000 | | | | - | | | | dirty, shed |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | ,, | | 1.0.). | -1 | | " | | ,, |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | 167a | | 10 | | | | |
| 389 389 12 $000000000000000000000000000000000000$ | | | | | | - | (See | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | | Satisfactory. | |
| " 896 " $000000000000000000000000000000000000$ | Oct | | | | cows | | | | |
| "553Bnk.17I (tuber- culous)others healthyDo.Oct.15.553"I | | | | | COWS | | 1.100.000 | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | I @tuber- | others | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | Oct | . 15. | 553 | | I | | (See Oct. 14th) | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | 6 | | | Satisfactory. | |
| Oct.''''''I(not tuber culous) culous)(See Oct. 18th) outers healthy.Satisfactory.''196N.21healthyDo.''49N.W.21healthyDo.''26.206E.H.4''Do.''557''13''Do.''835S.12''Do.''835S.12''Do.''833''''Do.''813''40''Do.''164''''''Do.''28.284N.W.4healthy''28.284N.W.4''''00Hdy.14''Do.''00Hdy.14''Do. | Oct | | | Bnk. | 16 | | | | |
| Oct. 21. 544 N. 11 Itaber-chlous. others healthy. Satisfactory. ,, 196 N. 21 healthy Do. ,, 49 N.W. 21 healthy Do. Oct. 26. 266 E.H. 4 , Do. ,, 557 ,, 13 , Do. ,, 557 ,, 13 , Do. ,, 557 ,, 13 , Do. ,, 835 S. 12 , Do. ,, 431 ,, 31 healthy Do. ,, 431 ,, 31 healthy Do. ,, 167a Hdy. 1 out bealthy ,, 164 ,, 2 healthy Satisfactory. ,, 321 , out healthy< | | ., | 2000 | ,, | I | | (See | | |
| "196N.21healthyDo."49N.W.21"Do.Oct.26.266E.H.4"Do."557"13"Do."835S.12"Do.Oct.27.104A.&W. $^{cows}_{out}$ Do."431"31healthyDo."813"40"Do."167aHdy.IDo."321" $^{cows}_{out}$ healthyOct.28.284N.W.4healthy"00.Hdy.14"Do. | Oct | . 21. | Service and the service of the servi | | II | 10000 | 1 tuber- culous, others | Satisfactory. | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | 196 | N. | 21 | | | Do. | |
| Oct. 26. 266 E.H. 4 ,, Do. ,, 557 ,, 13 ,, Do. ,, 835 S. 12 ,, Do. Oct. 27. 104 A.&W. $^{cows}_{out}$ Do. ,, 431 ,, 31 healthy Do. ,, 431 ,, 31 healthy Do. ,, 813 ,, 40 ,, Do. ,, 167a Hdy. I oct. satisfactory. ,, 164 ,, 2 healthy Satisfactory. ,, 321 ,, $^{cows}_{out}$ healthy Satisfactory. ,, 609 Hdy. 14 ,, Do. | | | | | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | Oct | | | | 4 | | | Do. | |
| "" 835 S. 12 "" Do. Oct. 27. 104 A. & W. $\stackrel{cows}{out.}$ Do. "" 431 "" 31 healthy Do. "" 431 "" 31 healthy Do. "" 813 " 40 "" Do. "" $167a$ Hdy. I "" Do. "" $167a$ Hdy. I "" Do. "" 164 " 2 healthy Satisfactory. "" 321 " "" out" "" healthy Satisfactory. "" $0ct.$ $28.$ 284 N.W. 4 healthy Satisfactory. "" $6o9$ Hdy. 14 "" Do. | | ,, | 557 | " | | | | | |
| Oct. 27. 104 A. & W. $\stackrel{\text{cows}}{\text{out.}}$ L. Do. ,, 431 ,, 31 healthy Do. ,, 813 ,, 40 ,, Do. ,, 167a Hdy. I , Do. ,, 167a Hdy. I bealthy Satisfactory. ,, 164 ,, 2 healthy Satisfactory. ,, 321 ,, $\stackrel{\text{cows}}{\text{out}}$ healthy Satisfactory. ,, 609 Hdy. 14 ,, Do. | | | 835 | S. | 12 | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | Oct | | | A. & W. | cows out. | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | ,, | | ,, | | | healthy | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | 1 | | ,, | | | ,, | Do. | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | ,, | | Hdy. | | | (See Oct. 13th) | | |
| Oct. 28. 284 N.W. 4 healthy Satisfactory. ,, 609 Hdy. 14 ,, Do. | | ,, | 164 | ,, | | | | Satisfactory. | |
| ,, 609 Hdy. 14 ,, Do. | | | | | | | | | |
| | Oct | . 28. | | | 4 | | healthy | | |
| | | ,, | | Hdy. | | | ,, | | |
| ,, 213 ,, 5 ,, Do. | | " | | ,, | 5 | | ,, | | |
| " 94 " 11 " Do. | | ,, | 14650356 | ,, | | | ,, | | |
| ,, <u>393</u> ,, <u>36</u> ,, Do. | | ,, | 201000 | " | | | " | | |
| ", 347 ", ^{cows} Do. | | " | 347 | " | | | | Do. | |

-

TABLE VIII a. -- Continued.

| | | | Cattl | e and Cond | lition. | | |
|------------------------|-----------------|---------|-----------------|--------------------------|--------------------------------|-------------------------|---------------------------------------|
| Date of Inspection. | Register No. | Ward. | No. Examined | Udder diseased. | General Condition | Condition o | f Shed. |
| 1909. Oct. 29. | 153 | C. | 8 | | healthy | Fairly clean, fined. | but con- |
| | 7 | . ,, | 6 | | ,, | Satisfactory. | |
| ,, | 66 | ,, | 13 | | ,, | Do. | 1 |
| Nov. 2. | 167a | Hdy. | I | I (tuber- culous.) | (See Oct. 27th) | | |
| Nov. 3. | IO | A.&W. | 3 | | healthy | Satisfactory. | |
| ,, | 372 | ,, | 4 | | ,, | Do. | |
| ,, | 679 | ,, | 0 | | | Do. | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| ,, | 909 | Bmy. | 14 | | healthy | Do. | |
| ,, | 173 | ,, | 18 | | | Do. | |
| ,, | 406 | W.H. | 18 | | ,, | Do. | |
| Nov. 4. | | | 14 | | ,, | Do. | |
| " | 101 | E. | 15 | | ,, | Do. | |
| ,, | 351 | | IO | | ,, | Do. | |
| | 478 | N.E. | 21 | • | ,, | Do. | |
| Nov. 5. | 896 | N. | 8 | | ,, | Do. | |
| " | 343b | ,, | 25 | | ,, | Do. | |
| " | 343a | " | 14 | | 12 | Do. | |
| », » | 602 | A 0.11 | 19 | | ,, 1 healthy. | Do. | |
| Nov. 11. | 104 | A. & W. | 2 | | 1 affected with tumours. | Do. | |
| ,, | 126 | Bmy. | cows out, | | | Do. | |
| ,, | 36 | ,, | cows out. | ÷ | | Do. | |
| ,, | 99 | A.&W. | cows out. | | | Do. | |
| ,, | 38 | ,, | 23 | | healthy | Do. | |
| - ,, | 256 | ,, | 5 | | ,, | Do. | |
| " | 287 | ,, | 3 | | ,, | Do. | |
| Nov. 15. | 708 | .,, | 13 | | ,, | Do. | 1. S |
| ,, | 585 | Bmy. | 16 | | ,, | Do. | |
| ,, | 127 | ,, | 27 | | ,, | Do. | 10 13 |
| " | 128 | " | 3 | | " | Do. | |
| " | 515 | A 8-11 | 8 | | ,, | Do. | |
| " | 34 | A.&W. | cows. | | - ,, | Do. | |
| " | 120 199b | Bmy. | out 24 | I | others healthy | Do. Do. | |
| Nov. 17. | 243 | ,, | 9 | (mastitis) | healthy | Do. | 1 1 2 |
| ,, | 201 | ,, | I | | ,, | Do. | |
| ,, | 682a | ,, | 20 | | | Do. | |
| ,, | 822 | | 12 | | 37 | Do. | |
| ,, | 209 | ,, | 10 | | .,, | Do. | 100 |
| ,, | 21 | ,, | 7 | | ,, | Do. | |
| ,, | 574 | ,, | 14 | | ,, | Do. | |
| " | 408 | ,, | 15 | | ,, | Do. | |
| ,, | 682b | ,, | 8 | | ,, | Clean. | |
| | | | | | | | |

TABLE VIII a. - Continued.

| | | | Cattl | e and Con | lition. | |
|------------------------|-----------------|---------|-----------------|-------------------------|----------------------|-----------------------|
| Date of Inspection. | Register No. | Ward. | No. Examined | Udder diseased. | General Condition | Condition of Shed. |
| 1909. | | 11.1 | | | | C. C. C. |
| Nov. 17. | 321 | Hdy. | 16 | | healthy | Satisfactory. Do. |
| Nov. 18 | 17 | " | 5 | (tuber- culous) | healthy. | 170. |
| ,, | 738 | Ν. | 5 | | healthy | Do. |
| ,, ···· | 522 | ,, | 23 | | ,, | Do. |
| ,, | 195 | ,, | 18 | | ,, | Do. |
| Nov. 22. | 17 | Hdy. | I | I (tuber- culous) | Nov. 18th) | |
| Nov. 24. | 590 | Έ. | 7 | | healthy | Satisfactory. |
| ., | 90 | ,, | 22 | | ,, | Do. |
| ., | 19 | ,, | 19 | | 12 | Do. |
| | 145 | ,, | 28 | | 33 | Do. |
| " | 964 | ,, | cows out. | | | Do. |
| Nov. 25 | 148 | Bmy. | 16 | | healthy | Do. |
| ,, | 141 | ,, | 20 | | ,, | Do. |
| ., | 318 | ,, | 24 | | ,, | Do. |
| ,, | I 20 | ,, | 24 | | ,, | Some cows dirty. Shed |
| | | | | | 1.0.0 | walls dirty. |
| ,, | 199b | ,, | I | recovered. | (See Nov. 15th) | |
| ,, | 199b | ,, | 23 | | healthy | Satisfactory. |
| Nov. 26. | 665 | Ν. | 17 | | ,, | Do. |
| .,, | 67 | ,,, | 4 | | ,, | Do. |
| ,, | 170 | ۰, | 25 | | ,, | Do. |
| ,, | 543 | ,, | | | | No cows kept. |
| Nov. 29. | 295 | N.E. | 8 | | healthy | Satisfactory. |
| ,, | 136 | ,, | I 2 | | ,, | Do. |
| ,, | 220 | ,, | 20 | | ,, | Do. |
| ,, | 137 | ,, | 16 | | ,, | Do. |
| ,, | 138 | | 46 | | ,, | Do. |
| Nov. 30. | 964 | E. | 12 | | ,, | Do, |
| | 172 | | 33 | | ,, | Do. |
| Dec. 1. | | A.& W. | 19 | | ,, | Do. |
| ,, | 126 | Bmy. | 13 | | ,, | Do. |
| " | | A. & W. | 19 | | " | Do. |
| - " | 402 | " | 11 | | " | Do. |
| " | 246b | | 6 | | " | Do. |
| " | 246a | ,, | 10 | | " | Do |
| Dec " | 593 | u." | 4 | | ,, | Do. |
| Dec. 2. | 167b | | 12 | | " | Do. |
| " | 714 | " | 10 | | " | Do. Do |
| Dec 2 | 75 | ," N | 18 | | ", others | Do. Do |
| Dec. 3. | 45 | N. | 1,5 | (?tuber- culous) | healthy. | Do. |
| ,, | 680 | Bnk. | 2 | | healthy | Do. |
| ,, | 284 | N.W. | 21 | | ,, | Do. |
| | 88 | | | | | Do. |

TABLE VIII a. - Continuea.

| | | | Cattle | e and Con | dition. | |
|------------------------|-----------------|-------------|-----------------|-------------------------|-----------------------|-------------------------------------|
| Date of Inspection. | Register No. | Ward. | No. Examined | Udder diseased. | General Condition | Condition of Shed. |
| 1909. | 4.6 | N.W. | | | hoalthu | Catialastanu |
| Dec. 3. | 615 | | 25 | | healthy | |
| Dec. 8. | 17 | Hdy. N. | + | | , yy (See | Fairly clean. |
| Dec. 9. | 45 | | I | | Dec. 3rd) | |
| Dec. 12. | 38 | A.& W. | 23 | | healthy | Ched being alogned and |
| Dec. 14. | 38 | ,, , | 23 | | " | Shed being cleaned and disinfected. |
| Dec. 15. | 146 | Hdy. | 33 | | ,, | Satisfactory. |
| ,, | 912 | ,, | 13 | | ,, | Do. |
| ,, | 592 | ,, | 19 | | ,, | Do. |
| ,, | 353 | ,, | 15 | | ,, | Do. |
| , | 676 | ,, | 7 | | ,, | Do. |
| " | 550 | ,, | 13 | | ,, | Do. |
| ., | 591 | ,, | | | | Unoccupied. |
| | 45 | N. | | | (See Dec. 9th), | |
| Dec. 16. | 765 | Bmy. | 10 | | healthy | Satisfactory. |
| | 92 | | | | | Do. |
| " | 801 | " | 3 | | 17 | Dirty. |
| ,, | | ,, | | | " | No cows kept. |
| ,, | 407 | 1 8-117 | | | hoalthu | |
| D " | 38 | A.& W. | 23 | | healthy | Cleaned and disinfected. |
| Dec. 17. | | | 15 | | " | Satisfactory. |
| Dec. 21. | 38 | A.& W. | 23 | | ,, | Do. |
| ,, | 39 | Ν. | 32 | | ,, | Do. |
| Dec. 23. | 78 | Bmy | 2 I | | ,, | Do. |
| ,, | 199a | ,, | 14 | | ,, | Do. |
| ,, | 249 | ,, | 9 | | ., | Do. |
| ., | 400 | ,, | 26 | | ,, | Do. |
| ,, | 73 | ,, | 28 | | ,, | Do. |
| ,, | 635 | ,, | II | | ,, | Do. |
| ,, | 77 | ,, | 13 | | ,, | Do. |
| Dec. 30. | 63 | | 6 | | | Do. |
| | 681 | " | 4 | | healthy | Dirty. |
| ,, | 360 | " | 24 | | but dirty. healthy | Satisfactory. |
| " | 352 | " | 9 | | - | Do. |
| " | | ,, | 22 | | " | Do. |
| ,, | 337 | " | | | ,, | Do. |
| " | 227a | • • • | 7 | | " | Do. |
| " | 227b | " | 5 | | ,, | Dirty. |
| " | 470 | ** | 2 | | " | |
| ,, | 322 | " | 5 | | ;; healthy | Satisfactory. |
| ,, | 51 | ,, | 6 | | but dirty. others | Dirty. |
| ,, | 410 | " | 7 | I (tuber- culous) | healthy | Satisfactory. |
| ,, | 147 | ,, | 7 | | healthy | Do. |
| | 70 | | 5 | | ,, | Do. |
| Dec. 31. | 553 | Ň. | 21 | | | Do. |
| | 555 678 | | 7 | | ,, | Do. |
| ,, | | ,, | 14 | | " | Do. |
| " | 45 | " | .4 | | ,, | 200. |

TABLE VIII b.

.

Samples of Milk sent to the Bacteriological Laboratory for Examination for Tubercle during 1909.

| Igog. Jan. 2 Jan. 13 Yeadon | Date. | Where farm is situate. | No. of retailer. | Result of the test. |
|---|---------|------------------------|------------------|---------------------|
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | 1000. | | | |
| $ \begin{bmatrix} Jan. & I3 \\ Da. & Do. & & 258 \\ Do. & Do. & & 258 \\ Do. & Do. & & 485 \\ Jan. & I9 \\ Horton-in-Ribbles- \\ dale & & 306 \\ dale & & 306 \\ Theomplete. & & 306 \\ Do. & & 306 \\ Theomplete. & & 306 \\ Do. & & 306 \\ Theomplete. & & 306 \\ Theomplete. & & 306 \\ Theomplete. & & 306 \\ Do. & & 306 \\ Theomplete. & & & & & 306 \\ Theomplete. & & & & & 306 \\ Theomplete. & & & & & & & \\ Theomplete. & & & & & & & & & \\ Theomplete. & & & & & & & & & & \\ Theomplete. & & & & & & & & & & & & & & & \\ Theomplete & .$ | | Veadon | 58T | *Not tuberculous |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | - | | | |
| $ \begin{bmatrix} Jan. 19 & Horton-in-Ribbles-dale 306 + Do., Do. 306 + Incomplete., West Marton 349 + Not tuberculous.Jan. 27 Elslack 616 + Do., Do. f 615 + Do., Benningboro' f 615 + Do., Do. f 222 + Do., Do. f 258 + Do., Do. f 258 + Do., Do. f 258 + Do., Do. f 225 + Do., Do. f 422 + Do., Mar. 3 Wakefield 422 + Do., Tadcaster 422 + Do., Tadcaster 422 + Do., Rawdon 561 + Do., Mar. 10 Rawdon 561 + Do., Rawdon 577 + Tuberculous., Rawdon 561 + Do., Rawdon 561 + Do., Rawdon 108 + Do., Rawdon 108 + Do., Rawdon 108 + Do., Rawdon 108 + Do., Mar. 23 Guiseley 453 + Do.$ | 1 | | | * Do. |
| $ \begin{bmatrix} Jan. 19 & Horton-in-Ribbles-dale 306 + Do., Do. 306 + Incomplete., West Marton 349 + Not tuberculous.Jan. 27 Elslack 616 + Do., Do. f 615 + Do., Benningboro' f 615 + Do., Do. f 222 + Do., Do. f 258 + Do., Do. f 258 + Do., Do. f 258 + Do., Do. f 225 + Do., Do. f 422 + Do., Mar. 3 Wakefield 422 + Do., Tadcaster 422 + Do., Tadcaster 422 + Do., Rawdon 561 + Do., Mar. 10 Rawdon 561 + Do., Rawdon 577 + Tuberculous., Rawdon 561 + Do., Rawdon 561 + Do., Rawdon 108 + Do., Rawdon 108 + Do., Rawdon 108 + Do., Rawdon 108 + Do., Mar. 23 Guiseley 453 + Do.$ | | | | + Do. + Do |
| dale 306 † Do. Do. 306 † Incomplete. West Marton 349 †Not tuberculous. Jan. 27 Elslack 616 Do. Do. 616 Do. Bo. 616 Tho. Do. 616 Do. Do. 616 Do. Do. 616 Do. Do. 422 † Do. Do. 306 ± Do. Do. 306 ± Do. Do. 306 ± Do. Do. 422 ± Do. Do. 422 ± Do. Do. 422 ± Do. Do. | | | 405 | + D0. |
| ,Do. 306 \ddagger Incomplete.,, 349 \uparrow Not tuberculous.Jan.27Elslack 616 $100.$,, 616 $100.$,, 616 $100.$,, 616 $100.$,, 616 $100.$,, 422 $100.$,, 422 $100.$,, 422 $100.$,, 306 $100.$,, 306 $100.$,, 306 $100.$,, 306 $100.$,, 306 $100.$,, 306 $100.$,, 306 $100.$,, 306 $100.$,, 306 $100.$,, 306 $100.$,, 422 $100.$,, 422 $100.$,, 422 $100.$,, 422 $100.$,, 422 $100.$,, 422 $100.$,, 422 $100.$,, 422 $100.$,, 422 $100.$,, 422 $100.$,, 228 $100.$ <t< td=""><td>Jan. 19</td><td>1.1.</td><td>206</td><td>+ Do</td></t<> | Jan. 19 | 1.1. | 206 | + Do |
| "West Marton 349 *Not tuberculous.Jan.27Elslack 616 † Do."Do 616 † Do."Do 422 † Do."Do 306 ‡ Do."Do 306 ‡ Do."Do 422 † Do."Do 422 ‡ Do. <td></td> <td></td> <td></td> <td></td> | | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | ,, | | | |
| " Do. 616 * Do. " Thornton-in-Craven Do. 422 * Do. " Do. 306 * Do. " Do. 306 * Do. " Do. 306 * Do. " Do. 422 * Do. " Do. 258 * Do. " Do. | | | | |
| " Thornton-in-Craven Do. 422 † Do. " Do. 422 † Do. " Do. 422 † Do. " Do. 306 ‡ Do. " Do. 422 ‡ Do. " Goldsboro' 422 ‡ Do. " Goldsboro' 422 ‡ Do. " Do. <td< td=""><td>Jan. 27</td><td></td><td></td><td></td></td<> | Jan. 27 | | | |
| Feb.2Horton-in-Ribbles- dale306Do.,Do306Do.,Do306Do.,Do422Do.,Clapham555Do.,Goldsboro'422Do.,Goldsboro'422Do.,Do422Do.,Joo422Do.,Do592Feb.16Leeds,Do422Do.,Do615Feb.17Rylston222Do.,Benningboro'615Do.,Do228Too.,Mo228Too.,Do228Too.,Do228Too.,Do422Do.,Mar.3Wakefield,Do422Do.,Do422Do.,Mar.3Wakefield,Do422Do.,Joo422Do.,Mar.10Rawdon< | " | | | † Do. |
| Feb.2Horton-in-Ribbles- dale306Do.,Do306Do.,Do306Do.,Do422Do.,Clapham555Do.,Goldsboro'422Do.,Goldsboro'422Do.,Do422Do.,Joo422Do.,Do592Feb.16Leeds,Do422Do.,Do615Feb.17Rylston222Do.,Benningboro'615Do.,Do228Too.,Mo228Too.,Do228Too.,Do228Too.,Do422Do.,Mar.3Wakefield,Do422Do.,Do422Do.,Mar.3Wakefield,Do422Do.,Joo422Do.,Mar.10Rawdon< | ,, | | | † Do. |
| dale 306 1 Do 306 1 Do 306 1 Do 306 1 Do 422 1 422 1 6 1 422 1 422 1 422 1 422 1 223 1 223 1 228 1 122 1 122 1 122 1 122 1 122 1 122 10 122 10 122 | | | 422 | † Do. |
| ,,Do. 306 Do.,,Do. 306 Do.,,Do. 306 Do.,,Galapham 422 Do.,,Goldsboro' 422 Do.,,Do. 422 Do. | Feb. 2 | | | |
| Feb.17Rylston 422 1 DoBenningboro' 615 1 DoSeacroft 222 1 DoDo 258 1 DoWhitkirk 258 1 DoWhitkirk 258 1 DoWhitkirk 258 1 DoWhitkirk 258 1 DoMar.3Wakefield 422 1 Do 422 1 DoMar.3Wakefield 422 1 Do 422 1 DoTadcaster 422 1 DoTadcaster 422 1 DoTadcaster 422 1 DoTadcaster 422 1 Do 561 1 Do 174 Do.Do 198 1 Do 198 1 Do 340 1 Nottuberculous 340 1 10 </td <td></td> <td>dale</td> <td>306</td> <td>‡ Do.</td> | | dale | 306 | ‡ Do. |
| Feb.17Rylston 422 $^{+}$ DoBenningboro' 615 $^{+}$ DoSeacroft 222 $^{+}$ Do 258 $^{+}$ Do 258 $^{+}$ Whitkirk 258 $^{+}$ Whitkirk 258 $^{+}$ Whitkirk 258 $^{+}$ Mar.3Wakefield422 $^{+}$ Do 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 <t< td=""><td>,,</td><td>Do</td><td>306</td><td>‡ Do.</td></t<> | ,, | Do | 306 | ‡ Do. |
| Feb.17Rylston 422 $^{+}$ DoBenningboro' 615 $^{+}$ DoSeacroft 222 $^{+}$ Do 258 $^{+}$ Do 258 $^{+}$ Whitkirk 258 $^{+}$ Whitkirk 258 $^{+}$ Whitkirk 258 $^{+}$ Mar.3Wakefield422 $^{+}$ Do 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 <t< td=""><td>. ,,</td><td>Do</td><td>306</td><td>‡ Do.</td></t<> | . ,, | Do | 306 | ‡ Do. |
| Feb.17Rylston 422 $^{+}$ DoBenningboro' 615 $^{+}$ DoSeacroft 222 $^{+}$ Do 258 $^{+}$ Do 258 $^{+}$ Whitkirk 258 $^{+}$ Whitkirk 258 $^{+}$ Whitkirk 258 $^{+}$ Mar.3Wakefield422 $^{+}$ Do 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 <t< td=""><td></td><td>Earby</td><td></td><td>† Do.</td></t<> | | Earby | | † Do. |
| Feb.17Rylston 422 1 DoBenningboro' 615 1 DoSeacroft 222 1 DoDo 258 1 DoWhitkirk 258 1 DoWhitkirk 258 1 DoWhitkirk 258 1 DoWhitkirk 258 1 DoMar.3Wakefield 422 1 Do 422 1 DoMar.3Wakefield 422 1 Do 422 1 DoTadcaster 422 1 DoTadcaster 422 1 DoTadcaster 422 1 DoTadcaster 422 1 Do 561 1 Do 174 Do.Do 198 1 Do 198 1 Do 340 1 Nottuberculous 340 1 10 </td <td></td> <td></td> <td></td> <td>† Do.</td> | | | | † Do. |
| Feb.17Rylston 422 $^{+}$ DoBenningboro' 615 $^{+}$ DoSeacroft 222 $^{+}$ Do 258 $^{+}$ Do 258 $^{+}$ Whitkirk 258 $^{+}$ Whitkirk 258 $^{+}$ Whitkirk 258 $^{+}$ Mar.3Wakefield422 $^{+}$ Do 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 <t< td=""><td></td><td>(aldahana))</td><td></td><td>† Do.</td></t<> | | (aldahana)) | | † Do. |
| Feb.17Rylston 422 $^{+}$ DoBenningboro' 615 $^{+}$ DoSeacroft 222 $^{+}$ Do 258 $^{+}$ Do 258 $^{+}$ Whitkirk 258 $^{+}$ Whitkirk 258 $^{+}$ Whitkirk 258 $^{+}$ Mar.3Wakefield422 $^{+}$ Do 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 <t< td=""><td></td><td>Do</td><td></td><td>† Do.</td></t<> | | Do | | † Do. |
| Feb.17Rylston 422 $^{+}$ DoBenningboro' 615 $^{+}$ DoSeacroft 222 $^{+}$ Do 258 $^{+}$ Do 258 $^{+}$ Whitkirk 258 $^{+}$ Whitkirk 258 $^{+}$ Whitkirk 258 $^{+}$ Mar.3Wakefield422 $^{+}$ Do 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 <t< td=""><td></td><td>Looda</td><td></td><td>† Do.</td></t<> | | Looda | | † Do. |
| Feb.17Rylston 422 $^{+}$ DoBenningboro' 615 $^{+}$ DoSeacroft 222 $^{+}$ Do 258 $^{+}$ Do 258 $^{+}$ Whitkirk 258 $^{+}$ Whitkirk 258 $^{+}$ Whitkirk 258 $^{+}$ Mar.3Wakefield422 $^{+}$ Do 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 $^{+}$ 422 <t< td=""><td></td><td>Do</td><td></td><td>† Do</td></t<> | | Do | | † Do |
| "Benningboro' 615 †Do.Feb.23Seacroft 222 †Do."Do 258 †Do."Whitkirk 258 †Do."Whitkirk 258 †Do."Whitkirk 258 †Do."Whitkirk 258 †Do."Whitkirk 258 †Do."Whitkirk 258 †Do.Mar.3Wakefield 422 ‡Do."Do 422 ‡Do."Tadcaster 174 Do."Too 174 Do."Tawdon 198 Do."Rawdon 198 Do."Tong 434 Too."Gargrave 340 †Mar.23Guiseley 45 | | | | |
| Feb.23Seacroft Do222†Do.,, $Do.$ 258† $Do.$,,Whitkirk258† $Do.$ Feb.24Horsforth190† $Do.$ Mar.3Wakefield422‡ $Do.$,,Tadcaster422‡ $Do.$,,Tadcaster422‡ $Do.$,,Elslack340† $Do.$,,Do561† $Do.$,,Nar.16Horsforth517,,Rawdon561† $Do.$,,Rawdon198† $Do.$,,Rawdon434† $Do.$,,Gargrave340† Not tuberculous.,,Mar.17Tong434† $Do.$ | 1 ' | | | + Do |
| "Do. $\int \dots \dots$ | | | | + Do |
| "Tadcaster 422 †Do."Elslack 340 †Do.Mar. IORawdon 561 †Do."Do 174 †Do."Horsforth 517 †Tuberculous."Rawdon 561 †Do.Mar. I6Horsforth 118 †Do."Rawdon 198 †Do."Rawdon 340 †NotMar. I7Tong 340 †Not"Gargrave 453 †Do. | | Dol | | + Do. |
| "Tadcaster 422 †Do."Elslack 340 †Do.Mar.10Rawdon) 561 †Do."Do 174 †Do."Horsforth 517 †Tuberculous."Rawdon 561 †Do.Mar.16Horsforth 118 †Do.Mar.17Tong 434 †Do."Gargrave 340 †Not tuberculous.Mar.23Guiseley 453 †Do. | " | Whithink | | † Do. |
| "Tadcaster 422 †Do."Elslack 340 †Do.Mar. IORawdon 561 †Do."Do 174 †Do."Horsforth 517 †Tuberculous."Rawdon 561 †Do.Mar. I6Horsforth 118 †Do."Rawdon 198 †Do."Rawdon 340 †NotMar. I7Tong 340 †Not"Gargrave 453 †Do. | 1 Th 1 | Homforth | | 1 D0. |
| "Tadcaster 422 †Do."Elslack 340 †Do.Mar. IORawdon 561 †Do."Do 174 †Do."Horsforth 517 †Tuberculous."Rawdon 561 †Do.Mar. I6Horsforth 118 †Do."Rawdon 198 †Do."Rawdon 340 †NotMar. I7Tong 340 †Not"Gargrave 453 †Do. | | | | $\downarrow D0.$ |
| "Tadcaster 422 †Do."Elslack 340 †Do.Mar. IORawdon 561 †Do."Do 174 †Do."Horsforth 517 †Tuberculous."Rawdon 561 †Do.Mar. I6Horsforth 118 †Do."Rawdon 198 †Do."Rawdon 340 †NotMar. I7Tong 340 †Not"Gargrave 453 †Do. | Mar. 3 | De | | $\frac{1}{2}$ Do. |
| ,,Elslack 340 †Do.Mar.10Rawdon 561 †Do.,,Do 174 †Do.,,Horsforth 517 †Tuberculous.,,Rawdon 561 †Do.Mar.16Horsforth 561 †Do.,,Rawdon 198 †Do.,,Rawdon 198 †Do.,,Gargrave 340 †Not tuberculous.,,Gargrave 453 †Do. | " | Do. J | | |
| Mar.IORawdon 561 †Do.,,Do 174 †Do.,,Horsforth 517 †Tuberculous.,,Rawdon 561 †Do.Mar.16Horsforth 561 †Do.,,Rawdon 118 †Do.,,Rawdon 198 †Do.,,Rawdon 340 †Not,,Gargrave 340 †Not,,Guiseley 453 †Do. | ,, | Tadcaster | | |
| " Do. \int I74 † Do. " Horsforth 517 †Tuberculous. " Rawdon 561 † Do. Mar. 16 Horsforth I18 † Do. " Rawdon I18 † Do. " Rawdon I98 † Do. " Rawdon I98 † Do. " Rawdon I98 † Do. " Gargrave 340 † Do. " Gargrave 453 † Do. | N " | | | |
| "Horsforth 517 †Tuberculous. "Rawdon 561 † Do. Mar. 16 Horsforth 118 † Do. "Rawdon 198 † Do. "Rawdon 198 † Do. "Rawdon 198 † Do. "Gargrave 340 †Not tuberculous. Mar. 23 Guiseley 453 † Do. | Mar. 10 | | | |
| " Rawdon 561 † Do. Mar. 16 Horsforth 118 † Do. " Rawdon 198 † Do. Mar. 17 Tong 434 † Do. " Gargrave 340 †Not tuberculous. Mar. 23 Guiseley 453 † Do. | ,, | | | |
| Mar. 16 Horsforth 118 † Do. ,, Rawdon 198 † Do. Mar. 17 Tong 434 † Do. ,, Gargrave 340 †Not tuberculous. Mar. 23 Guiseley 453 † Do. | | | | |
| """ Rawdon "" 198 Do. Mar. 17 Tong " 434 Do. """ Gargrave " 340 Not tuberculous. Mar. 23 Guiseley " 453 Do. | | | | † Do. |
| """ Rawdon "" 198 Do. Mar. 17 Tong " 434 Do. """ Gargrave " 340 Not tuberculous. Mar. 23 Guiseley " 453 Do. | Mar. 16 | | 118 | † Do. |
| Mar. 17 Tong 434 † Do. ,, Gargrave 340 †Not tuberculous. Mar. 23 Guiseley 453 † Do. | | | 198 | † Do. |
| Mar. 23 Guiseley 340 Not tuberculous. Mar. 453 Do. | Mar. 17 | Tong | | |
| Mar. 23 Guiseley 453 † Do. | ,, | | | †Not tuberculous. |
| | | | | |
| ,, Clapham 555 † Do. | - | Clapham | 555 | † Do. |
| 000 1 200 | | | 000 | |

к

* From single cows. + Original specimen. ‡ Control specimen.

TABLE VIIIb.-Continued.

| Date. | Where farm is situate. | No. of retailer. | Result of the test. |
|----------|------------------------|---------------------|----------------------------------|
| 1909 | | | |
| Mar. 23 | Elslack | 215 | †Not tuberculous. |
| ,, | Pool | 259 | †Tuberculous. |
| Mar. 30 | Bingley | 605 | †Not tuberculous |
| ,, | Carlton) | 453 | † Do. |
| ,, | Do. Ĵ | 453 | †Tuberculous |
| April 17 | Rawdon | 198 | *Not tuberculous. |
| April 20 | Pool | 259 | ‡ Do. |
| April 21 | Horsforth | 517 | ‡ Do. |
| ,, | Tong | 434 | ‡Tuberculous. |
| April 26 | Halton) | 136 | †Not tuberculous. |
| ,, | Do.∫ | 136 | † Do. |
| April 27 | Horsforth | 521 | † Do. |
| ,, | Do | 812 | † Do. |
| May 4 | Roundhay | II4 | †Tuberculous. |
| | Do | 114 | † Do. |
| ,, | Do. J | II4 | † Do. |
| May 6 | Whinmoor) | 374 | †Not tuberculous. |
| ,, | Do. J | 46 | † Do. |
| May II | Carlton) | 453 | ‡ Do. |
| ,, | Do. J | 453 | Tuberculous. |
| ,, | Eccup) | 399 | †Not tuberculous. |
| ,, | Do. J | 399 | † Do. |
| May 18 | Spofforth | 207 | † Do. |
| ,, | Nidd Bridge | 206 | † Do. |
| ,, | Roundhay) | 537 | † Do. |
| ,, | Do. J | 537 | † Do. † Do. † Do. † Do. |
| May 26 | Pool | 50 | † Do. |
| ,, | Huby | 50 | † Do. |
| ,, | Bramhope | 533 | † Do. |
| ,, | Horsforth | 74 | † Do. |
| June 8 | Swillington | 123 | † Do. |
| ,, | Do. ∫ | 123 | † Do. |
| ,, | Alwoodley | 160 | † Do. † Do. † Do. † Do. |
| June 15 | Bramhope | 432 | † Do. |
| ,, | Leeds | 6 | |
| .,, | Denton | 2 | † Do. |
| June 22 | Horton-in-Ribbles- | | |
| | dale | 296 | † Do. |
| | Barnoldswick) | 422 | † Do. |
| | Do. ∫ | 422 | † Do. |
| June 29 | Carlton | 453 | ‡Tuberculous. |
| ,, | Rawdon | 274 | †Not tuberculous. |
| | Leeds | 629 | † Do. |
| June 30 | Guiseley | 616 | † Do. |
| July 7 | Grassington | 259 | † Do. |
| | | | |

* From single cows. + Original specimen.

‡ Control specimen.

TABLE VIIIb. - Continued.

| Igogg July 7 Pool 306 †Not tuberculous. $Iuly$ 8 Carlton 259 Do. $July$ 14 Gargrave 259 † Do. $July$ 14 Denton 259 † Do. $July$ 14 Denton 269 † Tuberculous. $July$ 15 Burnsall 418 †Not tuberculous. $July$ 28 Leeds 503 † Tuberculous. $July$ 28 Leeds 503 † Tuberculous. max Cookridge 614 Do. max Radick 100 † Not tuberculous. max Do. 812 † Not tuberculous. max Do. 812 † Not tuberculous. max Do. 622 † Do. max Do. 100 Tuberculous. max Do. </th <th>Date.</th> <th>Where farm is situate.</th> <th>No. of retailer.</th> <th>Result of the test.</th> | Date. | Where farm is situate. | No. of retailer. | Result of the test. |
|--|----------|------------------------|---------------------|---------------------|
| July 7 Pool 306 †Not tuberculous. July 8 Carlton 259 ‡Not tuberculous. July 14 Gargarave 259 ‡Do. July 14 Gargarave 259 ‡Do. July 14 Denton 210 †Tuberculous. July 15 Burnsall 418 †Not tuberculous. July 28 Leeds 593 †Tuberculous. July 28 Leeds 593 †Tuberculous. July 28 Leeds 593 †Tuberculous. , Whinmoor 691 † Do. , Do. 76 †Incomplete. , Do. 453 ‡ Do. , Do. 453 ‡ Do. , Do. 453 ‡ Do. , Do. 450 Do. , | 1909 | | | |
| m Do. 259 1 Not tuberculous. July 14 Gargave 259 1 Do. July 14 Gargave 259 1 Do. July 14 Denton 2 1 Tuberculous. July 15 Burnsall 418 1 Not tuberculous. July 28 Leeds 593 1 Tuberculous. m Kildwick 418 1 Not tuberculous. m Kildwick 110 1 Do. Mus 18 Horsforth 100 1 Do. m Carlton 812 1 Not tuberculous. m Do. 1 4 S $Do.$ m Do. 1 4 S $Do.$ m Do. 1 4 S $Do.$ m Do. 1 6 Set 1 1 Do. m Do. 1 1 Do. 1 1 Do. m Barantope 2 1 Tuberculous. 1 Tuberculous. m Hellifield 1 | | Pool | 306 | †Not tuberculous. |
| July 8 Carlton 259 † Do. July 14 Gargrave 508 † Do. July 14 Denton 2 † Tuberculous. July 15 Burnsall 418 † Not tuberculous. July 28 Leeds 593 †Tuberculous. , Cookridge 490 †Not tuberculous. , Whinmoor 691 † Do. Add 661 † Do. , Kildwick 110 † Do. Aug. 5 Adel 76 †Incomplete. , Do 812 †Not tuberculous. , Carlton 453 ‡ Do. Aug. 25 Seacroft 48 † Do. , Do 510 † Do. , Do 550 † Do. , Ben Rhydding 215 †Tuberculous. Sept. 1 Gargrave 259 † Do. , Do.) 150 † Do. , Do.) 150 † Do. , Do.) 150 † Do. , Bramhope 556 † Do. , Bramhope 556 † Do. , Bramhope 556 † Do. , Do.) 50 † Do. , Morsforth 100 † Do. , Sept. 28 Old Bramhope 50 † Do. , Do 50 † Do. , Do 50 † Do. , Moodley 160 †Tuberculous. , Do 50 † Do. , Do 552 † Do. , Oo 552 † Do. , Oo 552 † Do. , Do 552 † Do. , Oo | | Do | | |
| | July 8 | Carlton | | † Do. |
| | July 14 | Gargrave | | † Do. |
| $ \begin{bmatrix} July & 28 & Leeds & & & 593 & Tuberculous. \\ & & Cookridge & & 490 & Not tuberculous. \\ & & Whinmoor & & 691 & Do. \\ & & Kildwick & & 110 & Do. \\ & & Kildwick & & 110 & Do. \\ & & & Kildwick & & 110 & Do. \\ & & & & Kildwick & & 110 & Do. \\ & & & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & \\ & & & & & & & & & & & & & \\ & & & & & & & & & & & & & \\ & & & & & & & & & & & & & \\ & & & & & & & & & & & & & \\ & & & & & & & & & & & & & \\ & & & & & & & & & & & & & \\ & & & & & & & & & & & & & \\ & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & \\ & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & \\ & & & & & & & & & & & & \\ & & & & & & & & & & & & & \\ & & & & & & & & & & & & \\ & & & & & & & & & & & & & \\ & & & & & & & & & & & & & \\ & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & & & & \\ & & & & & & & & & & & & & & & & & & \\ & & & & & & & & $ | July 14 | Denton | 2 | †Tuberculous. |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | July 15 | Burnsall | 418 | †Not tuberculous. |
| "Whinmoor 691 †Do.Aug.5Adel 614 †Do."Wikildwick110†Do.+"Do 76 ++"Do 453 ‡Do.Aug.25Seacroft 484 *Do."Do 510 ‡Do."Do 510 ‡Do."Do 510 ‡Do."Do 510 ‡Do."Do 510 ‡Do."Do 510 ‡Do."Do 293 ‡Tuberculous.Sept. 1Gargrave 259 ‡Do."Ben Rhydding 215 †Tuberculous."Do 302 †Tuberculous."Do 302 †Tuberculous."Do 302 †Do."Bramhope 506 †Do."Mosofith 506 †Do."Mosofith 506 †Do."Bramhope 506 †Do."Do <td< td=""><td>July 28</td><td>Leeds</td><td></td><td></td></td<> | July 28 | Leeds | | |
| Aug. 5 Adel 614 100 Aug. 18 Horsforth 76 1100 Aug. 18 Horsforth 812 $1Not$ tuberculous. 812 $1Not$ tuberculous. 453 Do. 48 Do. 48 Do. 692 $100.$ 692 $100.$ 692 $100.$ $100.$ $100.$ 124 $100.$ $100.$ <td></td> <td>Cookridge</td> <td>490</td> <td>†Not tuberculous.</td> | | Cookridge | 490 | †Not tuberculous. |
| " Kildwick 110 † Do. Aug. 18 Horsforth 76 †Incomplete. " Do. 812 †Not tuberculous. " Carlton 453 ‡ Do. Aug. 25 Seacroft 48 Do. " Do. 510 Do. " Do. 692 ‡ Do. " Do. 692 † Do. " Do. 692 † Do. " Do. 692 † Do. " Bargrave 293 † Tuberculous. Sept. I Gargrave 259 † Do. " Ben Rhydding 215 † Tuberculous. " Do. 302 † Tuberculous. " Do. 150 † Do. " <td< td=""><td>,,,</td><td></td><td>691</td><td></td></td<> | ,,, | | 691 | |
| Aug. 18 Horsforth 76 *Incomplete. " Do. 812 *Not tuberculous. " Carlton 453 Do. Aug. 25 Seacroft 48 Do. " Do. 48 Do. " Do. 692 * Do. " Ben Rhydding 259 * Do. " Do. 302 * Tuberculous. " Do. 150 * Do. " Do. 150 * Do. " Do. 56 <td< td=""><td>Aug. 5</td><td></td><td>614</td><td></td></td<> | Aug. 5 | | 614 | |
| " Do. 812 *Not tuberculous. " Carlton 453 Do. Aug. 25 Searoft 483 Do. " Do. 510 Do. " Do. 510 To. " Do. 692 To. " Do. 692 To. " Do. 692 To. " Do. 692 To. " Do. 293 *Tuberculous. Sept. I Gargrave 259 *Do. " Ben Rhydding 215 *Tuberculous. " Do. 302 *Tuberculous. " Do. 150 Do. " Do. 506 *Not <tuberculous.< td=""></tuberculous.<> | | | | |
| " Carlton 453 Do. Aug. 25 Seacroft 48 Do. " Do. 510 Do. " Do. 692 Do. " Whinmoor 293 Tuberculous. Aug. 31 Cookridge 614 *Not tuberculous. Sept. I Gargrave 259 † Do. " Hellifield 194 † Do. " Ben Rhydding 215 *Tuberculous. " Do. 302 *Tuberculous. " Do. 302 *Tuberculous. " Do. 302 *Tuberculous. " Do. 150 Do. " Do. 569 # Do. " Bramhope 596 * Not tuberculous. " Bramhope | Aug. 18 | | | |
| Aug. 25 Seacroft 48 Too. ,, Do. 510 Too. ,, Do. 692 Too. ,, Whinmoor 293 Tuberculous. Aug. 31 Cookridge 293 Tuberculous. Sept. 1 Gargrave 259 Do. ,, Hellifield 194 Do. ,, Ben Rhydding 215 Tuberculous. Sept. 7 Apperley Bridge 412 +Not tuberculous. ,, Do. 150 Do. ,, Do. 150 Do. ,, Do. 150 Do. ,, Do. 150 Do. ,, Bawdon 110 Do. ,, Bramhope 596 +Not tuberculous. ,, Bramhope 50 +Not tuberculous. ,, Do. <t< td=""><td>"</td><td></td><td>812</td><td></td></t<> | " | | 812 | |
| n_{11} $Do.$ \dots $5io$ f $Do.$ n_{11} $Do.$ \dots 692 f $Do.$ n_{11} $Do.$ \dots 293 f $Tuberculous.$ $Aug.$ 31 $Cookridge$ \dots 223 f $Tuberculous.$ $Sept.$ I $Gargrave$ \dots 259 $Do.$ n n_{11} $Hellifield$ \dots 194 $Do.$ n n n_{11} Ben $Rhydding$ 215 f $Tuberculous.$ n_{11} $Do.$ 110 $Do.$ n $Tuberculous.$ n_{11} $Do.$ 110 $Do.$ $Do.$ n n_{11} $Do.$ 110 $Do.$ n $Do.$ n_{11} $Horsforth$ \dots 566 $Do.$ $Do.$ n_{11} $Horsforth$ \dots 506 $Thot$ $Theoregulas.$ n_{11} $Do.$ \dots 50 $Thot$ $Thot$ | | | | ‡ Do. |
| ,,, Do. 692 † Do. ,,, Whinmoor 293 †Tuberculous. Aug. 31 Cookridge 614 †Not tuberculous. Sept. 1 Gargrave 259 † Do. ,, Hellifield 194 † Do. ,, Ben Rhydding 255 †Tuberculous. ,, Do. 302 †Tuberculous. ,, Do. 302 †Tuberculous. ,, Do. 302 †Tuberculous. ,, Do. 302 †Tuberculous. ,, Do. 302 †Tuberculous. ,, Do. 150 Do. ,, Do. 150 Do. ,, Bo. 569 †Do. ,, Bramhope 581 Do. To. ,, | Aug. 25 | | 48 | |
| " Whinmoor 293 †Tuberculous. Aug. 31 Cookridge 614 *Not tuberculous. Sept. 1 Gargrave 259 † Do. " Hellifield 194 † Do. " Ben Rhydding 215 †Tuberculous. " Ben Rhydding 215 †Tuberculous. " Do. 302 †Tuberculous. " Do. 302 †Tuberculous. " Do. 302 †Tuberculous. " Do. 302 †Tuberculous. " Do. 150 Do. Sept. 8 Rawdon 156 Do. " Rawdon 566 Do. " Bramhope 596 †Not tuberculous. " Horsforth 190 † Do. " Bramhope 581 † Do. " Do. 50 † Do. " | ,, | | 510 | |
| Aug. 31 Cookridge 614 *Not tuberculous. Sept. 1 Gargrave 259 † Do. ,, Hellifield 194 † Do. ,, Ben Rhydding 215 †Tuberculous. ,, Do. 194 † Do. ,, Do. 215 †Tuberculous. ,, Do. 104 † Do. ,, Do. 110 † Do. ,, Brawdon 156 † Do. ,, Bramhope 596 † Not tuberculous. ,, Horsforth 190 † Do. ,, Bool 100 506 † Not tuberculous. ,, Dool 100 506 † Not tuberculous. ,, Bramhope 506 † Do. ,, Do. 100 100 † Do. ,, Do. | ,, | | 692 | |
| Sept. I Gargrave 259 † Do. ,, Hellifield 194 † Do. ,, Ben Rhydding 215 †Tuberculous. ,, Do. 302 †Tuberculous. ,, Do. 302 †Tuberculous. ,, Do. 302 †Tuberculous. ,, Do. 302 †Tuberculous. ,, Do. 150 Do. Sept. 8 Rawdon 150 † ,, Bramhope 566 † Do. ,, Bramhope 596 † Not ,, Bramhope 596 † Not ,, Bramhope 596 † Not ,, Dol. 596 † Not ,, Dol. 596 † Not ,, D | | | | |
| Hellifield 194 1 DoBen Rhydding 215 1 TuberculousDo 302 1 1 Do 302 1 1 Do 150 DoSept. 8Rawdon 150 Do.Sept. 14Horsforth 560 DoRawdon 566 DoBramhope 596 1 Horsforth 596 1 Bramhope 596 1 Jole 596 1 Bramhope 596 1 Jole 596 1 Not tuberculousHorsforth 190 190 1 100 Sept. 21Otley 506 1 100 100 50 100 50 100 130 100 130 130 100 130 100 130 100 100 130 100 100 100 100 < | | | 614 | |
| "Ben Rhydding 215 "Tuberculous.Sept. 7Apperley Bridge 412 "Not tuberculous."Do 302 "Tuberculous."Do 150 Do.Sept. 8Rawdon 150 Do.Sept. 14Horsforth 569 Do."Rawdon 566 Do."Bramhope 596 "Not tuberculous."Horsforth 190 Do."Bramhope 596 "Not tuberculous."Horsforth 596 "Not tuberculous."Bramhope 596 "Not tuberculous."Do 596 "Not tuberculous."Do 596 "Not tuberculous."Do 596 "Not tuberculous."Do 506 "Do."Do 506 </td <td>Sept. I</td> <td></td> <td>259</td> <td></td> | Sept. I | | 259 | |
| Sept. 7 Apperley Bridge 412 +Not tuberculous. " Do.) 302 +Tuberculous. " Do.) 150 Do. Sept. 8 Rawdon 110 Do. Sept. 14 Horsforth 569 Do. " Bramhope 556 Do. " Bramhope 556 Do. " Bramhope 596 †Not tuberculous. " Horsforth 190 Do. " Bramhope 596 †Not tuberculous. " Bramhope 596 †Not tuberculous. " Do. 50 † Do. " Pool) 50 † Do. " Do 13 †Not tuberculous. " Do 113 †Not tuberculous. " Do 552 Do. " Do 552 Do. " Do 552 D | ,, | | 194 | |
| " Do. 302 [†] Tuberculous. " Do. 150 † Do. Sept. 8 Rawdon 110 † Do. Sept. 14 Horsforth 569 † Do. " Rawdon 556 † Do. " Bramhope 596 †Not tuberculous. " Bramhope 596 †Not tuberculous. " Bramhope 596 †Not tuberculous. " Horsforth 190 † Do. " Bramhope 581 † Do. " Pool 50 †Not tuberculous. " Do. 50 † Do. " Do. 50 † Do. " Do. 160 † Tuberculous. Sept. 29 Do. | | | 215 | |
| "Do. \int 150†Do.Sept. 8Rawdon110†Do.Sept. 14Horsforth569†Do."Rawdon556†Do."Bramhope596†Not tuberculous."Horsforth190†Do.Sept. 21Otley581†Do."Cookridge490†Incomplete."Pool50†"Do50†"Do50†"Do50†"Do50†"Do50†"Do50†"Do50†"Do50†"Do50†"Do50†"Do50†"Do50†"Do50†"Do160†"Do52†"Do552†"Do552†< | Sept. 7 | | | |
| Sept. 8 Rawdon II0 $Do.$ Sept. I4 Horsforth 569 $Do.$,, Rawdon 556 $Do.$,, Bramhope 596 $TNot$ tuberculous. ,, Bramhope 596 $TNot$ tuberculous. ,, Horsforth 190 $Do.$,, Pool 581 $Do.$,, Do. 50 $TNot$ tuberculous. ,, Do. 50 $To.$,, Do. 27 $Do.$,, Do. 160 Tuberculous. Sept. 29 Do. | ,, | | - | |
| Sept. 14 Horsforth 569 i Do. ,, Rawdon 556 i Do. ,, Bramhope 596 i Not tuberculous. ,, Horsforth 190 i Do. ,, Horsforth 581 Do. i ,, Notly 581 Do. i i ,, Do. 50 † Do. i ,, Do. 27 † Do. i i ,, Do. 160 † Tuberculous. i <td></td> <td></td> <td></td> <td></td> | | | | |
| "Rawdon 556 †Do."Bramhope 596 †Not tuberculous."Horsforth 190 †Sept. 21Otley 581 †"Cookridge 490 †Incomplete."Pool 50 "Do 50 "Do" <td></td> <td></td> <td>0.00</td> <td>† Do.</td> | | | 0.00 | † Do. |
| "Bramhope 596 †Not tuberculous."Horsforth190†Do.Sept. 21Otley 581 †Do."Cookridge 50 †Not tuberculous."Pool 50 †Not tuberculous."Do 50 †Not tuberculous."Do 50 † Do."Do 27 Do."Do 160 † Tuberculous.Sept. 29Do 160 † Tuberculous.Oct.6Bingley 605 Do."Do 552 † Do."Do 552 † Do."Do 552 † Do."Do 180 † Do."Bramhope 29 † Do. | Sept. 14 | | | |
| "Horsforth190†Do.Sept. 21Otley581†Do."Pool50†Incomplete."Pool50†Not tuberculous."Do50†Do.Sept. 28Old Bramhope615†Do."Do27†Do."Do160†Tuberculous.sept. 29Do160†Tuberculous.Oct.6Bingley605‡Do."Do552‡Do."Wigton552‡Do."Do180‡Do."Bramhope29‡Do. | ,, | | | |
| Sept. 21 Otley 581 † Do. ,, Cookridge 490 †Incomplete. ,, Pool 50 †Not tuberculous. ,, Do. 50 † Do. ,, Do. 27 † Do. ,, Alwoodley 160 † Tuberculous. Sept. 29 Do. 160 † Tuberculous. Sept. 29 Do. 160 † Do. ,, Do. 605 ‡ Do. ,, Do. 552 Do. ,, Do. 552 Do. ,, Do. 180 Do. | ,, | | | |
| ,,Cookridge490†Incomplete.,,Pool50†Not tuberculous.,,Do50† Do.Sept. 28Old Bramhope615† Do.,,Do27† Do.,,Alwoodley160†Tuberculous.Sept. 29Do160† Tuberculous.Oct.6Bingley605‡ Do.,,Do552† Do.,,Do552‡ Do.,,Do552‡ Do.,,Do552‡ Do.,,Bramhope180† Do.,,Bramhope29† Do. | | | | |
| "Pool50*Not tuberculous."Do50†Do.Sept. 28Old Bramhope 615 †Do."Do27†Do."National end of the second end of t | Sept. 21 | | | |
| "Do50†Do.Sept. 28Old Bramhope 615 †Do."Do 27 †Do."Alwoodley160†Tuberculous.Sept. 29Do113†Not tuberculous.Oct.6Bingley 605 ‡Do."Do 605 ‡Do."Do 552 ‡Do."Do 552 ‡Do.Oct.12Otley180‡Do."Bramhope29‡Do. | | | | |
| Sept. 28 Old Bramhope 615 † Do. ,, Do. 27 † Do. ,, Alwoodley 160 † Tuberculous. Sept. 29 Do. 160 † Tuberculous. Sept. 29 Do. 160 † Tuberculous. Oct. 6 Bingley 605 ‡ Do. ,, Do. 605 ‡ Do. ,, Do. 605 ‡ Do. ,, Do. 552 † Do. ,, Do. 552 † Do. ,, Do. 180 † Do. ,, Bramhope 29 † Do. | " | | | |
| "Do 27 † Do."Alwoodley160†Tuberculous.Sept. 29Do113†Not tuberculous.Oct.6Bingley 605 ‡Do."Do 605 ‡Do."Do 552 ‡Do."Do 552 ‡Do.Oct.12Otley 180 ‡Do."Bramhope 29 ‡Do. | | | | |
| "Alwoodley160Tuberculous.Sept. 29Do113 \dagger Not tuberculous.Oct.6Bingley 605 \pm Do."Do 605 \pm Do."Do 552 \pm Do."Do 552 \pm Do.Oct.12Otley 180 \pm Do."Bramhope29 \pm Do. | Sept. 28 | Do | | |
| Sept. 29 Oct. Do. II3 (0ct. *Not tuberculous. $(0ct. 6 Bingley(0ct. 605 ‡ Do. (0ct. 0. 605 ‡ Do. (0ct. 0. 605 ‡ Do. (0ct. 0. 552 † Do. (0ct. 12 Otley 180 † Do. (0ct. 12 Otley 29 † Do. $ | " | | | |
| Oct. 6 Bingley Do. 605 ‡ Do. ,, Do. 605 ‡ Do. ,, Do. 605 ‡ Do. ,, Wigton Do. 552 † Do. ,, Do. 552 † Do. Oct. 12 Otley 180 † Do. ,, Bramhope 29 † Do. | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | + Do. + Do |
| Oct. 12 Do. J 552 † Do. 12 Otley 180 † Do. Bramhope 29 † Do. | | | - | + Do. + Do |
| Oct. 12 Otley 180 † Do. ,, Bramhope 29 † Do. | | 9 | | |
| " Bramhope 29 † Do. | | | | + Do. |
| | | | | |
| | Oct. 13 | Oalaworth | | † Do. |
| Oct. 13 Oakworth 421 † Do. | 000. 13 | oakworth | 421 | 1 20. |

† Original specimen.

‡ Control specimen.

TABLE VIIIb.-Continued.

| 1909 Oct. Guiseley 422 Guiseley Not tuberculous. $0c.$ 19 Guiseley 420 Not tuberculous. $0c.$ $0c.$ 435 $0c.$ n $0c.$ 38 $0c.$ n $0c.$ 38 $0c.$ n $0c.$ 38 $0c.$ n $0c.$ 38 $0c.$ $0c.$ 26 $0c.$ $0c.$ $0c.$ 27 Ripley Valley 422 $0c.$ $Nov.$ 2 Whinmoor $$ 460 $Do.$ n $Dc.$ $$ 29 $Do.$ n $0c.$ $$ 29 $Do.$ n $0c.$ $$ 29 $Do.$ n $0c.$ $$ 49 $Do.$ n $0c.$ $$ 29 $Do.$ n $0c.$ $$ 29 $Do.$ n $0c.$ $$ 29 $Do.$ n |
|---|
| |

TABLE IX.

Samples of food sent to the City Analyst for examination during the 52 weeks ended 1st January, 1910.

| | Article. | | Genuine. | Poor in quality. | Adul- terated. | Total. | Sum- moned. | Con- victed. | Dis- missed |
|-----------|----------|------|----------|---------------------|-------------------|--------|----------------|-----------------|----------------|
| Milk | | | 366 | | 118 | 484 | 29 | 29 | |
| Butter | | | 34 | | I | 35 | I | I | |
| Bread | | | 4 | | | 4 | | | |
| Lard | | | 25 | | I | 26 | | | |
| Jam | | | I | | II | 12 | | | |
| Sausage | | | 6 | | 3 | 9 | | | |
| Vinegar | | | I | | | I | | | |
| Stout | | | I | | | I | | | |
| Pepper | | | 2 | | | 2 | | | |
| Olive Oil | | | 2 | | | 2 | | | |
| Tea | | | I | | | I | | | |
| Rice | | | 3 | | 4 | 7 | | | |
| Cheese | | | 3 | | | 3 | | | |
| Cider | | | | | 2 | 2 | | | |
| Lime Juio | ce | | I | | | 1 | | | |
| Nitre | | | | | I | 1 | | | |
| Cream | | | | | 7 | 7 | | | |
| Cream of | Tartar | | 13 | | | 13 | | | |
| Claret | | | I | | | I | | | |
| Babies' L | otion | | I | | I | 2 | | | |
| | Total | | 465 | | 149 | 614 | 30 | 30 | |

TABLE IXa.

Summonses issued during the 52 weeks of 1909 under the Sale of Food and Drugs Acts, 1875, 1879 and 1899, for articles other than butter.

| No. of | Articl | e. | | Percentage | | | ł | ines | | Remarks. |
|------------|------------|----|------------------------|--------------------|---------------------|-------|----|------|----|-----------------------------------|
| sample. | | | | aduiteratio | on. | | £ | s., | d. | |
| | | | | | | | | | | - |
| 14 | Milk | | 21% ad | ded water | | | 10 | 0 | 0 | and costs; seventh conviction |
| 17 | Do. | | 12% | do. | | | 0 | 10 | 0 | and costs |
| 39 | Do. | | 17% fat | removed | | | | | | to pay costs |
| 83 | Do. | | | ded water, | 8°/° fat | re- | | | | |
| 0. | De | | mov | | | | I | 0 | 0 | and costs |
| 84 | Do. | | | removed | | | 0 | 10 | 0 | do. |
| 85 | Do. | | 24°/。 | do. | | | | | | to pay costs do. |
| 138 | Do. Do. | | 21 / ac | lded water do. | | | | | | do. |
| 167 168 | Do. | | 14% 7% 6% 28% | do. | | } | 7 | 0 | 0 | and costs |
| 170 | Do. | | 6% | | fat rem | | 2 | 0 | 0 | do. |
| 195 | Do. | | 28% | do. 4/ | | | 5 | 0 | 0 | do. |
| 195 | Do. | | 20% | do. | | | 3 | 0 | 0 | do. |
| 261 | Do. | | 11% | do. | | | 5 | 0 | 0 | and costs ; second |
| | | | | | | | | | | conviction |
| 350 | Do. | | 12% | do. | | | 0 | 10 | 0 | and costs ; skim milk |
| 426 | Do. | | 20% | do. | | | 5 | 0 | 0 | and costs |
| 429 | Do. | | 17% | do. | | | 2 | 0 | 0 | do. |
| 492 | Do. | | 12% | do. | | | | | | to pay costs ; see No. 544 |
| 525 | Do. | | 17% | do. | | | | - | | to pay costs; see |
| | D | | - 10/ | | | | ~ | 10 | ~ | No. 543 |
| 533 | Do. | | | do. | | | 0 | 10 | 0 | and costs ; skim milk |
| 543 | Do. | | 18% | do. | | | 5 | 0 | 0 | and costs |
| 544 | Do. | | 30% | do. | | | IO | 0 | 0 | |
| 555 | Do. | | | do. | | | | - | | to pay costs ; see No. 585 |
| 568 | Do. | | 12% | do. | | | I | 0 | 0 | and costs |
| 570 | Do. | | | do. | | | 5 | 0 | 0 | second conviction |
| 582 | Do. | | 07 | do. | | | | | | to pay costs ; see No. 533 |
| 584 | Do. | | 7% | do. | | | | | | to pay costs ; see |
| 585 | Do. | | 8% | do. | | | 7 | 0 | 0 | No. 585 and costs; second |
| | - | | | | 1.0. | | | | ~ | conviction |
| 589 601 | Do. Do. | | 13% 4'7°/。 | do. 14° do. 15° | /, fat ren /, do | noved | 20 | 0 | 0 | eighth conviction to pay costs |
| | | - | | | | | | | - | |
| | | | | | | £ | 90 | 0 | 0 | |

TABLE IXc.

Adulterated Samples where no proceedings were taken.

| No. of ample. | Article. | | Adulterat | ion. | | 1 | Remarks. |
|---------------|------------|---|----------------------|-------|--------------|------|--------------------------|
| 15 | Milk | | 2.4% added water | | | | purchased officially |
| IĞ | Do. | | - A | | | | do. |
| 19 | Do. | | - at 1 | | | | do. |
| 21 | Do. | | | | | | |
| 26 | Do. | | | | | | do. |
| 28 | Do. | | | | | | do. |
| 44 | Do. | | 22% added water, 4 | | | | |
| 45 | Do. | | 3.6% added water | | | | |
| 66 | Do. | | | | | | do. |
| 67 | Do. | | 1 N N | | | | do. |
| 68 | Do. | | 01/ 1 | | | | do. |
| 70 | Do. | | 2% added water, 4 '7 | | | he | do. |
| 86 | Do. | | 7% fat removed | | | | |
| 89 | Do. | | | | | | |
| | Do. | | 1.8% added water, I | .6% | fat remo | have | |
| 91 | | | 2.2% do. 7 | 1.8% | do | weu | do. do. |
| 93 | Do. Do. | | | | | | |
| 99 | | | 3% added water | ····· | fatron | | do. |
| 100 | Do. | | 2.7% added water, 6 | 1/01 | atremo | | |
| 102 | Do. | | 3'4% fat removed | | | | do. |
| 103 | Do. | | 2% added water | | | | |
| 105 | Do. | | 3.8% added water, 3 | | | | |
| 106 | Do. | | 6.7% fat removed | | | | |
| 107 | Do. | | | ···· | | | |
| 109 | Do. | | | | | ed | |
| 144 | Do. | | | | | | do. |
| 145 | Do. | | | | | | do. |
| 148 | Do. | | 7% do. | | | | |
| 176 | Do. | | 7.6% fat removed | | | | purchased officially |
| 180 | Do. | | 3% added water | | | | do. |
| 194 | . Do. | | 3.5% fat removed | | | | do. |
| 196 | Do. | | 2% added water | | | | do. |
| 221 | Do. | | - 11 | | | | do. |
| 235 | Do. | | 1.12 Ja | | | | 1 |
| 240 | Do. | | 1 A 1 | | | | |
| 242 | Do. | | 6.00% 1. | | | | 1 |
| 244 | Do. | | and de | | | | do. |
| 245 | Do. | | V | | | | |
| 248 | Do. | | 22% added water | | | | private sample |
| 261 | Do. | | 0% 1. | | | | 1. |
| 262 | Do. | 1 | 18% added water, 5 | % fat | remove | d. | |
| 270 | Do. | | 4.4% added water | | - childre | | 1 1 11 |
| 286 | Do. | | | | | _ | do. |
| 306 | Do. | | 2 | | | | do. |
| | Do. | | 1'2% added water, 2 | | fat rame | red | do. |
| 308 | Do. | | | | | A | do. |
| 310 | | | 4.5% added water | | | | |
| 318 | Do. | | 33% fat removed | | | | private sample |
| 337 | Do. | | 36% added water | | | | do. |
| 346 | Do. | | 11% do. | | | | cautioned by Dr. Cameron |
| 348 | Do. | | 4.5% do. | | | | purchased officially |
| 349 | Do. | | 1.3% do. | *** | | | do. |
| 359 | Do. | | 4% do. | | | | do. |
| 388 | Do. | | 2.4% do. | | | | do. |

| 389 Milk 393 Do. 422 Do. 432 Do. 441 Do. 443 Do. 453 Do. 453 Do. 438 Do. 439 Do. 461 Do. 464 Do. | | 3.9% do. 6.7% fat removed 6.7% do. 4.5% added water 5% do. | | | | purchased officially do. |
|--|-------------|--|-------|---------|------|-----------------------------|
| 393 Do. 422 Do. 432 Do. 441 Do. 443 Do. 4453 Do. 454 Do. 438 Do. 439 Do. 461 Do. | | 6.7% fat removed 6.7% do. 4.5% added water 5% do. | | | | |
| 422 Do. 432 Do. 441 Do. 443 Do. 453 Do. 454 Do. 438 Do. 439 Do. 461 Do. | | 6.7% fat removed 6.7% do. 4.5% added water 5% do. | | | | |
| 432 Do. 441 Do. 443 Do. 453 Do. 454 Do. 438 Do. 439 Do. 461 Do. | ···· ··· | 4.5% added water 5% do. | | | | do. |
| 441 Do. 443 Do. 453 Do. 454 Do. 438 Do. 439 Do. 461 Do. | ···· ··· | 5% do. | | | | do |
| 443 Do. 453 Do. 454 Do. 438 Do. 439 Do. 461 Do. | | 5% do. | | | | do. |
| 453 Do. 454 Do. 438 Do. 439 Do. 461 Do. | | | | | | do. |
| 454 Do. 438 Do. 439 Do. 461 Do. | | 3.5% do. | | | | do. |
| 438 Do. 439 Do. 461 Do. | | 1.7% do. | | | | do. |
| 439 Do. 461 Do. | | 4.7% do. | | | | do. |
| 461 Do. | | 4.7% do. 4.5% do. | | | | do. |
| | | 1.0% 1. | | | | do. |
| 404 8704 | | 10% fat removed | | | | cautioned by Dr. Cameron |
| 493 Do. | | 3.6% added water | | | | purchased officially |
| 518 Do. | 10000 | - 9/ 1 | | | 100 | private sample |
| | | 17% do. | | | | do. |
| | | | | | | |
| 521 Do. | | | V Get | | | purchased officially |
| 524 Do. | | | | | | do. |
| 531 Do. | | 2 0/ 0 | | | | do. |
| 532 Do. | | | | | | do. |
| 535 Do. | | 10% added water | | | | private sample |
| 542 Do. | | 00 | | | | do. |
| 545 Do. | | | | | | purchased officially |
| 556 Do. | | 4% added water, 2 | 7% fa | t remov | ed | do. |
| 567 Do. | | 26% added water | | | | |
| 569 Do. | | | | remove | :d., | do. |
| 581 Do. | | | | | | |
| 583 Do. | | | | | | do. |
| 586 Do. | | | | | | do. |
| 591 Do. | | 4% fat removed | | | | do. |
| 597 Do. | | 1.4% added water | | | | do. |
| 598 Do. | | 1.4% do. | | | | do. |
| 603 Do. | | 10% do. | | | | private sample |
| | | | | | | |

TABLE IXc.-Continuea.

TABLE XI.

Smoke, 1909 (52 weeks).

| Complaints received | | | | | 16 |
|--|----------|---------|-------|------|-------|
| Furnaces inspected | | | | | 7,672 |
| Observations taken o | | | | | 1,012 |
| minutes each) | | | | | 1,622 |
| Total number of minu | ites den | se smol | ce | | 2,663 |
| Average minutes du each observation | | | | 0 | onds) |
| Smoke prevention app | | | | | 60 |
| Chimneys newly erect | ed | | | | 6 |
| Furnaces in connectio | n with r | new chi | mneys | | 20 |
| Notices served upon n | nanufact | urers | | | 10 |
| Do. do. s | tokers | | | | 13 |
| Persons summoned be | fore the | magist | rates | | - |
| Do. convicted | | | | | |

TABLE XII.

Work done by Disinfecting Staff, 1909 (52 weeks).

| Houses disinfected | | | | | 3,784 |
|-------------------------|-------------|--------|--------|------|--------|
| Rooms disinfected (stri | ipped 295, | lime | washed | 527) | 10,685 |
| Beds and mattresses d | isinfected | | | | 8,415 |
| Articles of bed clothin | ig disinfec | ted | | | 31,360 |
| Articles of wearing app | parel disin | fected | l | | 53,302 |
| Miscellaneous articles | disinfected | d | | | 19,116 |

L

TABLE XIII.

Cases removed to hospital by our own staff. Classified according to diseases certified.

| Small- pox. | Scarlet fever. | Diph- theria. | | Typhoid fever. | 0.0000000000000000000000000000000000000 | Total, 1909. |
|----------------|-------------------|------------------|---|-------------------|---|-----------------|
| | 1,051 | 896 | 7 | 194 | 65 | 2,213 |

(52 weeks).

TABLE XIV.

Return for the 52 weeks ended 1st January, 1910, of patients in hospital.

| | Small-pox. H | Scarlet N fever. | Diphtheria. ယ | Typhus + fever. | Enteric, or typhoid un fever. | Other or doubtful on cases. | Total. ~ |
|--|--------------|---------------------|---------------|--------------------|-------------------------------------|-----------------------------------|----------|
| No. in Hospital on Saturday, 2nd January, 1909 | | 54 | 119 | | 38 | 30 | 241 |
| No. since admitted | | 1,002 | 866 | 7 | 154 | 320 | 2,349 |
| No. discharged | | 823 | 805 | 5 | 132 | 294 | 2,059 |
| No. died | | 14 | 38 | 2 | 28 | 30 | 112 |
| No. remaining in Hospital, 1st January, 1910 | | 219 | 142 | | 32 | 26 | 419 |

TABLE XV.Canal Boats (52 weeks).

| Registered during the year 1909 | | | 8 |
|-------------------------------------|---------|---|---------|
| Re-registered do. | | | 4 |
| Transferred to fresh owners | | | 2 |
| Struck off register (on adjusting r | egister |) | 119 |
| On register, 1st January, 1910 | | | 269 |
| Visits of inspection to wharves an | nd lock | s | 800 |
| Boats completely inspected (219 l | boats) | | 459 |

TABLE XVI.

Houses Let in Lodgings.

| | | | Houses. | Rooms. |
|----------------------------------|--------------|------|--------------|---------------|
| Registered during the year; le | et as furnis | hed | | |
| rooms | | ••• | | - |
| Struck off register | | | 19 | 34 |
| On register, 1st January, 1910 | | | 125 | 298 |
| Houses let in lodgings visi | ted, but | not | | |
| registered | | | 306 | 872 |
| Visited for infective disease | | | . 7 | - |
| Drain testing | | | 102 | _ |
| Visits for additional inspection | i, &c. | 4 | ,963 | |
| Nuisances found and abated- | - | | | |
| Overcrowded rooms | | | Found. 16 | Abated. 16 |
| | | | | 81 |
| Dirty rooms | | •••• | 81 | |
| Dirty and bad bedding | | | 5 | 5 |
| Dilapidated dwellings | | | 22 | 32 |
| Defective drains | | | 47 | 59 |
| Dirty closets | | | ΙI | II |
| | | - | | |
| | Total | | 182 | 204 |

TABLE XVII.

Other work of Temporary Dwellings Inspector.

| Visits t | o common lodging-h | ouses | | | 452 |
|----------|--|---------------|----------|-------|------|
| ,, | """ | as to infect | ive dise | ease | 118 |
| >> | furnished rooms as | to small pox | | | - |
| ,, | »» » | typhus fer | ver | | 71 |
| " | vans | | | | 254 |
| " | tents and temporal | ry dwellings | | | 115 |
| ,, | cellar dwellings | | | | 91 |
| ,, | to test drains (com | imon lodging | -houses |) | 3 |
| Commo | on lodging houses- | | | | |
| | n testings 4, afte fects found 0. | er infectious | disea | ses; | |
| Univers | sity lodging houses- | _ | | | |
| | ses inspected, 152; c | | 5 rooms | | |
| Drain | n testings, 210 in 15: 83, in 62 houses). | | | | |
| Rete | stings of above, 286 | | | | |
| | sting of drains of examined 114 (defect | | | | |
| Rete | sting above drains or | n completion | of worl | s, 8. | |
| Addi | tional visits for non- | abatements, e | tc. | 258 | |
| Tota | l visits to these house | es | | | 746 |
| Health | Congress- | | | | |
| | tional visits to lodgi | ngs, &c | | | 141 |
| | n testings (not includ | - · | | | |
| | | | Гotal | I | ,991 |
| | | | | | |

| | l |
|----------|---|
| | |
| ÷ | 1 |
| e | l |
| E | l |
| n | 1 |
| 8 | l |
| õ | 1 |
| > | l |
| Je | |
| 4 | l |
| 2 | 1 |
| 2 | l |
| é | 1 |
| N C | l |
| s in wh | |
| - | |
| ÷ | l |
| LIC | l |
| | l |
| list | ļ |
| P | 1 |
| à | |
| suk | |
| - | |
| ō | l |
| Ŧ | |
| à | |
| ÷ | |
| | 1 |
| e | |
| - | |
| Je | 1 |
| + | |
| Ø | |
| 5 | 1 |
| 10 | |
| ee Ba | |
| ag | |
| - | |
| se | |
| E | |
| Ca | |
| 0 | |
| + | |
| 50 | |
| ir | |
| ro | |
| 0 | |
| S | |
| a | |
| D | |
| fie | |
| Sit | |
| S | 1 |
| la | |
| 0 | |
| | |

| F | at- ers rring a | ov. | :::**::: | : : : | :: | : : | : | ::: | :00 | 10 | 13 | 43 | 138 | 181 | 4 | | |
|------------|--|---------------|--|-------------------------------|---------|-------------------------------|-----------------------------|--|--------------------------------|--------|-----------------------------|------------------|---------------------|-----------------------|-------|--------------------------------|---|
| TO SH | Out- siders occurring in City. | g pun | ::::: | : : : | :: | 1.1 | : | ↔ : ; | :: | : | :03 | ю | 10 | 13 | 194 | | |
| DEATHS | Leeds persons persons outside City † | ov. | ::::: | : := | := | : : | : | = : : | 14: | - | 20 | 46 | 8 | 145 | 146 | | |
| - | | 2 2 | :::::: | - :: | :: | : : | : | :::: | :: | : | :: | 1 | : | - | 14 | | |
| | Annual rate per 1,000 pop. | | 0.16 0.02 0.01 0.01 0.01 | 0.17 0.00 0.08 | 0-23 | 10.0 | 0-02 | 0-03 0-02 0-04 | 1-14 | 2.68 | 0-53 | 69-9 | 7-52 | 14-21 = | | | # Including 37 deaths in the Consumptive Hospital, Armley (see quarters returns). * There were roy deaths at Manston Hospital (outside the City boundary). § Including two deaths of Leeds persons in temporary premises situated in Chapeltown district. |
| L | ity . | all | | 83 80 80 80 | 110 | : 10 | 12 | 13 12 19 | 548 | 1291 | 676 256 | 3225 | 3629 | 6854 | - | 14.2 | the City boundary). |
| TOTAL | Mortality in City. | . iC | 1: 13.7 3 | 0 0.09 | : " | . ^{NO} | 11 | 10 19 | 537 | 628 | 195 | 2379 | 2444 | 4823 | | 11.3 | ty be |
| | M | pund 2 | 35 34 34 44 | . : 81 | 101 | : : | -1 | C3 C3 : | | 462 | 61 | 845 | 1185 | 2031 4 | | 36-2 | ie Ci |
| | aley | 5°. | | : : : | :: | : : | : | :::: | :04 | 5 | 10 | 24 | 34 | 38 | | | de th |
| | Bramley | 2 2 | | : : : | :: | : : | ; | :::) | :: | - | :: | Ч | 9 | t | 65 | | outsi |
| ŝ | eck | 200 | | : : : | :: | : : | : | : : : | :04 | 10 | 10.01 | 10 | 2 | 32 | | | ital (|
| OUSE | Holb | s 5 | :::::: | : : : | :: | : : | : | :::: | :: | : | :: | : | - | - | 12 | | Hospi |
| WORKHOUSES | let. | 00 E | | : : : | :: | : : | : | ::: | : 9 | 10 | m :] | 3 | 25 | 1 | | | ton F |
| WC | Hunslet. Holbeck | s S | :::::: | : : : | :: | : : | : | ::: | :: | : | :: | : | ю | 10 | 8 | | Manston Hospital (outside town district. |
| | | ov. u 5 | | : := | :: | : : | : | ∾⊣ : | :इ | 12 | 29 | 245 | 226 | 12t | | | at A |
| | Leeds. § | pund 5 | ::::: | : : : | := | : : | : | ::: | :: | 10 | := | 12 2 | 31 2 | 17 | 514 | | deaths at in Chanel |
| - | | ov. u 5 | :: 124: : : | - 02g | :: | : : | : | 10 : 10 | := | t | - : | 22 | 10 | 8 | 1 | | by de |
| | Fever Hospitals | s S | ::97::: | : : : | :: | : : | : | ::: | :: | : | :: | 8 | | 22 | 107 | | tre re |
| - | | ov. u 5 | : : : 01 : : | : : : | :: | : : | : | 0 0 H | :5 | 8 | 22 | 183 | 323 | 206 | - | | There were 107 premises situated |
| | In- firmary, &c. ‡ | 2 2 | ::: 104 ::: | : : : | := | : : | : | - : : | := | 4 | :25 | 33 10 | 65 33 | 38 | 604 | | Ther |
| _ | And and a second s | ov. u 5 | | : : : | :: | : : | : | ::: | :: | 03 | := | ю | 9 | 0 | - | | * |
| | Osmond thorpe. 339 | and c | | : : : | : : | : : | : | :::: | :: | : | :: | : | : | : | σ | 9.92 | (). |
| | - 0 | ov. u 5 | ::: := :: | : :19 | := | : : | - | - : ':] | :62 | 58 | 9.9 | 167 | 200 | 367 | | ~ | eturns). |
| | Chapel town. 47,270 | 2 2 2 | :- : : : | • : : | : | : : | - | : - : | : | 53 | :00 | 37 1 | 76 2 | 113 34 | 480 | 10-2 | rs re |
| | | | ::::: | : := | := | : : | : | :: | 15 | | ca ko | 80 | 102 | 182 1 | 1 | | ‡ Including 37 deaths in the Consumptive Hospital, Armley (see quarters r \$ Including two deaths of Leeds person |
| | Hunslet. Holbeck. Wortley. Kirkstall Bramley 79.943 37,320 68,099 51,635 19,547 | und ov. | : : : : : : : : : : | - :: | := | : : | : | ::: | :: | 13 | := | 53 | 34 1 | 59 1 | 241 | 12-4 | nptive Hospital, Armley (see quarters returns). * There were 107 deaths at Manston Ho § Including two deaths of Leeds persons in temporary premises situated in Chapeltown district. |
| | itall 1 | 0v. | ::::: | : := | := | : : | : | ::: | :02 | | 22 | 161 | 189 | 350 | | 10 | ley (|
| | Kirksta 51,635 | 5 5 | :00 := : : | o : : | :10 | : : | : | ::: | := | 20 | :01 | 54 1 | 75 1 | 123 | 479 | £.6 | Arm |
| | ley. 1 | 50 | ::::: | r= ;∾ | := | : - | 03 | :03 10 | :8 | 8 | 128 | 260 | 243 | 203 | 10 | | pital, two |
| | W.ortle 68,099 | 2 2 | 7: 7: 9: | °° :: | 10: | : : | : | - : : | :04 | 13 | :0 | 78 2 | 154 2 | 232 5 | 735 | 10-8 | Hosp |
| | eck. | | :::=:: | : : : | :=- | : : | - | - : - | :8 | - | 112 | 152 | 143 1 | 2366 2 | - | | Inch |
| | Holbeck 37,320 | 2 Pund | 1: : : 19: | r : : | 10: | : : | : | ::: | :03 | 46 | :00 | 84 1 | 98] | 182 2 | 477 | 12.8 | guns |
| | ilet. 1 | 04. 20 | := := : : | : : : | :: | : : | ю | 01 ; 10 | :9 | | 13 | 272 | 249 | 521 1 | - | - | Con |
| | Hunslet 79,943 | and 5 | :8:00: | 53 : : | :63 | : : | 5 | := : | :10 | | | 158 2 | 207 2 | 365 5 | 886 | 11-1 | n the |
| | the second se | 5°. | ;= ;= ; ; | : :01 | :: | : : | 03 | ::: | :12 | 3 | 14 | 189 1 | 142 2 | 331 3 | - | 10 | ths i |
| | South E. 35,370 | pund 5 | :⊟ : : :∞ | •• : : | :22 | : : | : | ::: | :: | 8 | := | 119 1 | 131 1 | 250 3 | 581 | 16-5 | 7 dea |
| DS. | 5 L | 20S | := :*: : | : :* | :01 | : - | : | - 10 | :92 | 134 | 503 | 344 1 | 350 1 | 694 2 | | 10 | ng 3 |
| LEEDS | West. 85,785 | 5 S | :0 :01 : : | : cu | 12: | : : | : | ::: | := | 57 1 | :0- | 93 3 | 176 3 | 269 6 | 963 | 11-3 | cludi |
| - | | 5 | : : :04 : : | : : : | :03 | ; = | 03 | :: 🕫 | :63 | | 66 | 194 | 153 1 | 347 2 | | - | t In |
| | North. 58,704 | und ov 5 5 | :* := : : | 16 | 13: | : : | : | ::: | :: | 12 | -360 | 126 1 | 127 1 | 253 3 | 600 | 10-3 | |
| | é , | _ | :::::@p | - : : , | effel : | natic . | Acute & Sub- acute Rheu- | -::~ | sis Minis | | Heart Disease Injury, &c | Above causes 1 | | Total { under and 2 2 | : | Mortality per 1,000 per an. | |
| | TOWNSH &c. Estimated Population- 484,012 | Unde | Small-pox Measles Scarlatina Diphtheria Croup (men ,, undefin | Whooping- cough Enteric | LE | Cholera Rheumatic Fever | Acute | matism Erysipelas Pyæmia Puerperal Fever | Ague Phthisis Bronchitis | Pheuri | Heart Injury | Above | All other causes | Total { | Total | Morta 1,000 | |

М

TABLE A, Part 2. (a)

Table of populations, registered births, and mortality at certain ages, in the registration sub-districts.

| Population e at | stimated t each age | | of 1909 | | 484,012 | 12,678 | 43,596 | 99,226 | 97,413 | 203,595 | 11,944 | 15,560 | |
|--------------------|------------------------|----------------|------------------------------------|-----------------------|--------------|---------------------|------------------------|-------------------------|--------------------------|--------------------------|--------------------------|----------------------|------------------------------|
| REGISTRAT | ION | | ition at ages. | red | | Mor | tality fro | m all cau | ses, at su | bjoined a | ges. | | Death |
| SUB-DISTRIC | | Census 1901 | Estimated to middle of 1909. | Registered Births. | At all ages. | Under 1 year. | 1 and under 5 | 5 and under 15 | 15 and under 25 | 25 and under 60 | 60 and under 65 | 65 and upwards | t,000 for eac district |
| Leeds Township- | North | 59,281 | 58,704 | 1,381 | 600 | 171 | 82 | 12 | 23 | 160 | 41 | 111 | 10.26 |
| Do. do | West | 84,340 | 85,785 | 1,871 | 963 | 197 | 72 | 31 | 45 | 286 | 60 | 272 | 11.26 |
| Do. do. | South | 34,299 | 35,370 | 1,132 | 581 | 166 | 84 | 27 | 29 | 131 | 33 | 111 | 16.48 |
| Hunslet | | 69,064 | 79,943 | 1,861 | 886 | 247 | 118 | 21 | 39 | 231 | 60 | 170 | 11.12 |
| Holbeck | | 31,572 | 37,320 | 1,002 | 477 | 115 | 67 | 17 | 18 | 133 | 24 | 103 | 12.82 |
| Wortley | | 59,328 | 68,099 | 1,345 | 735 | 166 | 66 | 18 | 32 | 186 | 65 | 202 | 10.83 |
| Kirkstall | | 41,561 | 51,635 | 944 | 479 | 84 | 45 | 14 | 21 | 112 | 36 | 167 | 9.31 |
| Bramley | | 17,299 | 19,547 | 405 | 241 | 39 | 20 | 8 | 10 | 64 | 16 | 84 | 12.37 |
| Chapeltown | | 31,845 | 47,270 | 952 | 480 | 80 | 33 | 7 | 19 | 162 | 40 | 139 | 10.19 |
| Osmondthorpe | | 379 | 339 | 16 | 9 | · | | | | 3 | 3 | 3 | 26.64 |
| Infirmary | | | | | 567 | 47 | 51 | 60 | 59 | 269 | 33 | 48 | |
| *Fever Hospitals | | | | | 107 | 1 | 26 | 29 | 19 | 29 | 2 | 1 | |
| (L | eedst | | | 80 | 514 | 31 | 12 | 8 | 16 | 210 | 58 | 179 | |
| | unslet | | | | 80 | 1 | 2 | | | 23 | 16 | 38 | |
| WORKHOUSES H | olbeck | | | 2 | 33 | 1 | S | | | 10 | 4 | 18 | |
| В | ramley | | | 11 | 65 | 4 | 3 | 1 | 2 | 20 | 7 | 28 | |
| Consumptive Hosp | oital | | | | 37 | | | 1 | 13 | 23 | | | |
| For the whole City | | 428,968 | 484,012 | 11,002 | 6,854 | 1,350 | 681 | 254 | 345 | 2,052 | 498 | 1,674 | 14.21 |

(Public institutions regarded as sub-districts.)

* There were 107 deaths at Manston Hospital (outside the city boundary). See note to table B.

† Including two deaths of Leeds persons, aged 82, and 74, occurring in temporary premises situated in Chapeltown distric

TABLE A, Part 2 (B).

Mortality at certain ages in the registration sub-districts. (Deaths in Public Institutions allocated to districts.)

| | | | | | | | 1 | | 1 | | Death- |
|---------------|---|--------|-------|--------------|--------------|--------------|-------|--------------|-------|------------|-----------------------|
| | | Deaths | Under | I | 2 | 5 | 15 | 25 | 60 | 65 | rate |
| DISTRICT | 1909 (52 weeks). | at all | I | and under | and under | and under | under | and under | under | and up- | per 1,000 for each |
| | | ages. | year. | 2 | 5 | 15 | 25 | 60 | 65 | wards. | district. |
| | | | | | - | - | | | 1 | 1 | |
| North | Registered in) | 600 | 171 | 15 | 27 | 12 | 00 | 100 | 41 | III | |
| | district (Registered in | | 171 | 45 | 37 | 16 | 23 | | | | 1 1 |
| | institutions (| 269 | 19 | 9 | 7 | | 18 | 114 | 21 | 65 | |
| | Total (see table E) | 869 | 190 | 54 | 44 | 28 | 41 | 274 | 62 | 176 | 14.85 |
| West | Registered in) | Se. | 1.1 | | | | | -06 | 6. | | |
| West | district Registered in | 963 | 197 | 46 | 26 | 31 | 45 | 286 | 60 | 272 | |
| | institutions (| 267 | 29 | 5 | II | 19 | 14 | 103 | 31 | 55 | |
| | Total (see table E) | 1,230 | 226 | 51 | 37 | 50 | 59 | 389 | 91 | 327 | 14.39 |
| C 11 E 1 | Registered in) | | | | | | | | | | |
| South-East | district { Registered in } | 581 | 166 | 54 | 30 | 27 | 29 | 131 | 33 | III | |
| - / | institutions) | 171 | 7 | 2 | 8 | 13 | 14 | 69 | | 45 | |
| | Total (see table E) | 752 | 173 | 56 | 38 | 40 | 43 | 200 | 46 | 156 | 21.33 |
| | Burther Street | | | | 1 | | | | | | |
| Hunslet | Registered in district | 886 | 247 | 63 | 55 | 21 | 39 | 231 | 60 | 170 | |
| | Registered in institutions } | 187 | 5 | 5 | 14 | 12 | 13 | 70 | 20 | 48 | - |
| | Total (see table E) | 1,073 | 252 | 68 | 69 | 33 | 52 | 301 | 80 | 218 | 13.47 |
| | Desistand in 1 | | | | | | | | | | |
| Holbeck | Registered in district } | 477 | 115 | 43 | 24 | 17 | 18 | 133 | 24 | 103 | |
| | Registered in institutions } | 67 | 3 | | 5 | 4 | 6 | 24 | 6 | 19 | - |
| | Total (see table E) | 544 | 118 | 43 | 29 | 21 | 24 | 157 | 30 | 122 | 14.63 |
| | | | | | - | | | | | | |
| Wortley | Registered in district } | 735 | 166 | 38 | 28 | 18 | 32 | 186 | 65 | 202 | |
| | district { Registered in institutions } | IIO | 9 | 2 | 8 | 6 | 14 | 39 | 8 | 24 | |
| | Total (see table E) | 845 | 175 | 40 | 36 | 24 | 46 | 225 | 73 | 226 | 12.45 |
| | | 10 | | ' | | | | 0 | | | 15 |
| Kirkstall | Registered in } | 479 | 84 | 29 | 16 | 14 | 21 | II2 | 36 | 167 | |
| | Registered in } | 46 | | 2 | 2 | 6 | I | 24 | | IO | |
| | institutions (Total (see table E) | 525 | 84 | 31 | 18 | 20 | 22 | 136 | 37 | 177 | 10.20 |
| | | 5-5 | -7 | 5- | 10 | | | -30 | 01 | -// | 20 20 |
| Bramley | Registered in) | 241 | 39 | 7 | 13 | 8 | IO | 64 | 16 | 84 | |
| | district { Registered in { | 37 | I | 2 | I | 3 | 4 | 15 | 3 | 8 | |
| | institutions) | 278 | 40 | 9 | 14 | II | 14 | 79 | 19 | 92 | 14.27 |
| | Total (see table E) | 2/0 | 70 | 9 | 14 | ** | 14 | 19 | -9 | 92 | 14 -1 |
| Chapeltown | Registered in) | 480 | 80 | 15 | 18 | 7 | 19 | 162 | 40 | 139 | |
| | Registered in | 54 | 5 | 2 | 3 | 8 | 4 | 18 | 3 | -39 II | |
| | institutions∫ | 534 | 85 | 17 | 21 | 15 | 23 | 180 | 43 | 150 | 11.34 |
| 1/2/ | Total (see table E) | 554 | -5 | -/ | | 13 | ~5 | 100 | 45 | 130 | 11 34 |
| Osmondthorpe | Registered in) | 9 | | | 1.00 | 1922 | - | 3 | 3 | 2 | |
| osmonutionpe | Registered in (| 9 | | | | | | I S | | 3 | 3.15 |
| | institutions f Total (see table E) | IO | | | | | | 4 | 3 | | 29.60 |
| | | | | | | | | 4 | | 5 | 2900 |
| City | Total of line | 6.660 | 1,343 | 360 | 306 | 242 | 324 | 1,945 | 184 | 1,647 | 13.81 |
| city | in italics | 0,000 | -1040 | 309 | 500 | ~4~ | 524 | -,945 | 404 | 1,04/ | 12.01 |
| | Outsiders dying in | 194 | 7 | 2 | 1 | 12 | 21 | 107 | 14 | 27 | |
| | Leeds institutions. | 194 | / | - | 4 | 14 | 21 | 107 | 14 | 27 | '40 |
| | Leeds persons dying in in-titu- | 146 | I | | | т | | 05 | TO | - 22 | 120 |
| | tions outside, | 140 | 1 | ••• | | I | 3 | 95 | 13 | 33 | .30 |
| | NETT | 6,806 | T 244 | 260 | 206 | 242 | 207 | 2 0 40 | 107 | 1,680 | 14.11 |
| | TOTAL. | 0,000 | 1,344 | 309 | 200 | 443 | 541 | 2,040 | 49/ | 1,000 | 14 11 |
| in the second | | | | | | | | | | | |
| - | | | | | | | | | | | |
| | | | | | | | | | | | |

Deaths of Leeds persons in the City Fever Hospitals and in Hunslet Workhouse are allocated to the districts from which they were sent in.

1909.—FIRST QUARTER. Table shewing Deaths recorded in the City of Leeds during the thirteen weeks ended 3rd April, 1909, classified according to cause, age, and the registration sub-districts in which they occurred.

| Deaths | Out- siders seurring in City. | and ov. | 111111 | 2 2 2 | :: | :: | | 2.2.2 94.2.2 | 1:1 | ~ ~ | ю 4 | 2 13 | 1 36 | 52 | |
|------------|---|----------------------|---|------------------------------|------|-------------------------------|-----------------------------|---|-------------|-------------------------|-----------------------------|--------------------------|---------------------|-------|--------------------------------|
| | 10 10 | ·dout | : 000 000 000 000 000 000 000 000 000 00 | 0.20 | 10.0 | 10-0 | 0-03 | 0.00 5000 4000 | 1.68 | 4-21 | 0.66 | 96-8 | 8:60 | 17-56 | |
| | * | All | :8484 : | 24 14 | :0 | : = | 4 | 0++0 | 17İ | 507 | 88 | 1081 | 1037 | 2118 | 17-6 |
| TOTAL | Mortality in City. | over. | ::0109 ::: | : :3 | :10 | : = | 6 14 | 10 4 10 | 167 | 362 | 198 | 840 | 742 | 1582 | 14-8 |
| F | ow o | 5 . | : 5625: | zi : : | .9 | : : | 1 | +:: | :4 | 145 | 13 | 747 | 8 | 536 1 | 38-2 1 |
| ė | dive | 5. | ::::: | : :: | :: | : : | : | ::: | :11 | : | :: | H | : | п | 10 |
| Ő | sumptive Hos- pital. | 5 5 | ::::: | : : : | :: | : : | : | ::: | :: | : | :: | : | : | - | |
| | 1 | ov. 5 | ::::: | : : : | :: | : : | : | ::: | : : | 4 | 9: | 10 | 6 | 12 | |
| | Holbeck | 2 2 | ::::: | : :: | :: | : : | : | ::: | :: | : | :: | : | 63 | | |
| SES. | lbeck | d ov. | ::::: | : : : | :: | : : | : | :::: | :: | C4 | 01-1 | 0 | 4 | 69 | |
| WORKHOUSES | | . und | ::::: | : : : | :: | : : | : | ::: | 14 | : | :: | : | : / | | |
| WOR | Hunslet. | und ov. | | | :: | | | | | | | | 1 18 | 5 | |
| | | ov. ur 5 | | : :- | :: | | | := : | :5 | Q | 19 6 | 8 | 22 | | - |
| | Leeds. | s s | | : : : | :: | : : | : | :::: | :: | : | :: | : | 3 7 | 153 | |
| - | and a set | ov. | :: 0110 :: | -1: : | :: | : : | : | ⊷ : ∾ | := | 1 | :: | 19 | ю | | |
| | Fever Hospitals + | and 5 | :: 2° | : : : | :: | : : | : | :::: | :: | : | :: | 12 | : | te | |
| | - K. | °.0 | :::::: | : : : | :: | : : | : | :•• : | :03 | 5 | 9 gg | 46 | 76 | 142 | |
| | In- firmary, etc. | ç | ::::: | : : : | :: | : : | : | ⊣ : : | :: | : | .9 | | 13 | 14 | |
| | Osmond- thorpe. 339 | ov. 5 | ::::: | : : : | :: | : : | : | ::: | :: | 1 | :: | 1 | 1 | 03 | 23-7 |
| | and the second se | pund 5 | ::::: | : : : | :: | : : | : | ::: | :: | 1 | :: | 1 | : | | 23 |
| | Chapel- town. 47.270 | d ov. | :::::: | : :: | := | : : | : | - : : | 10: | 27 | 16 | 57 | 73 | 166 | 14.1 |
| | - | pun : | ::::: | ⁰³ : : | :: | : : | - | :::: | :: | 11 | 1: | 15 | 12 | | 10 |
| | ramley 19.547 | und ov. | : : : : : : | | :: | : : | : | :::: | := | 7 9 | . 15 | 83 | 34 | 79 | 16-2 |
| | all Br | | :::::::: | - :: - | ::: | :: | | | 11: | 52 | 3 | 58 10 | 60 10 | | |
| | Cirkstall 51,635 | und ov. | | 4 | :01 | | | | | 80 | | 18 5 | 17 6 | 153 | 6.11 |
| | ey. K | | | : :03 | :: | : : | : | :: = | :21 | 22 | 30 | 88 1 | 1 12 | 2 | 01 |
| | Vortley 68,099 | und ov. | := : : : : | : : : | :: | : .: | ; | :::: | :: | 6 | :- | 14 | 15 | 207 | 12-2 |
| | seck 1 | Suc. | :::=:: | : : : | :: | : : | 1 | ⊣ : : | :0 | 27 | 16 | 57 | 20 | 9 | 0 |
| | Holbeck 37,320 | g | :00 : : : : | 4 :: | :: | : : | : | :::: | :~ | 17 | :: | 31 | 8 | 166 | 17-9 |
| | Hunslet. Holbeck Wortley. Kirkstall Bramley. 79,943 37,320 68,099 51,635 19,547 | und ov. | :::=:: | : : : | :: | : : | : | ≓:: | 19: | 67 | 14 | 109 | 76 | 569 | 13-5 |
| | | | :03 :03 03 : | ° :: | : | : : | : | :::: | :01 | 21 | 103 | 39 | 45 | 63 | 13 |
| | South E. 35.370 | und ov. | ::::: | : : : | :: | : : | - | ::: | :0 | 42 | 4 | 75 | 17 | 184 | 20-9 |
| s. | | | := : : : : | 4 : : | :01 | : : | : | ::: | :: | 54 | :: | 12 | 35 | | 63 |
| LEED | West. 85.785 | und ov. | ::: ⁰ ::: | | ::: | : : | | | :2 | 55 | 2 21 | 3 124 | 5 102 | 300 | 14-0 |
| LE | | ov. un 5 | : · · · · · · · · · · · · · · · · · · · | | := | | 1 | :::= | 15 | 39 20 | 11 | 0 28 | 2 46 | | |
| | North. 58,704 | s of | : · · · · · · · · · · · · · · · · · · · | 01 | :: | : : | | | ·= : : | 28 30 | 1 11 | 36 70 | 40 52 | 198 | 13.5 |
| - | | 1 | ::::@p | <u> </u> | - : | | | | | | | - | 1- | 1: | 1.1 |
| THOM MOL | TOWNSHIP &c Estimated Population- 484,012 | Under and over 5. | Smallpox Measles Scarlatina Diphtheria Croup (memb) | Whooping Cough Enteric | Dia | Cholera Rheumatic Fever | Acute & Sub- acute Rheu- | Erysipelas Pyaemia Puerperal Fever | Ague | Bronchitis Pneumonia | Heart Disease Injury, &c | Total of above causes | All other causes | Total | Mortality per 1,000 per an. |

A. 3.

1909.-SECOND QUARTER.

Table shewing Deaths recorded in the City of Leeds during the thirteen weeks ended 3rd July, 1909, classified according to cause, age, and the registration sub-districts in which they occurred.

| | | LEEDS | | - | | | - | | - | | | - | | - | - | | - | | - | | -m | | Womensiege | | | - | | | | | | - | 1. |
|--|----------------|--------------|-----------------------|-------|----------------|----------------|-------|---------|------------|---------|--|----------|------------------|-------|--|-----------------|-------------|---------|---------------|--------|----------|-----|-----------------|----------------|-------|--------|--------------------------|--------------------|-----------|-------------|-------------------|-------------------------|-------|
| TOWNSHIP &c | North. | West. | South E. | | nslet. | Holl | beck | Worth | ey. K | irkstal | Hunslet. Holbeck Wortley. Kirkstall Bramley. | | Chapel- town. | | Osmond- thorpe. | In- firmary. | | Fever | × | | | - | | | | Sum C | Con- sumptive Hos- | | Mortality | . ń | Annual | | 11- |
| Estimated Population- 484,012 | 58,704 | 85,785 | 35,370 | | 79,943 | 37,320 | 230 | 68,099 | | 51,635 | 19.547 | | 47.270 | | | etc. | | | | Leeds. | Hunslet. | | Holbeck Bramley | ck Br | amiey | | pital. | | City. | | rate per 1,000 | occurrin in City. | v. |
| Under and over 5. | und ov. 5 5 | 5 5 | 5 5 | | und ov. 5 5 | und ov. 5 5 | | s pund | оv. ш 5 | und ov. | pun . | ov. 5 | und ov. | 5 5 | ov. 5 | ç ç | ov. ur 5 | und ov. | v. und 5 5 | ov. | 2 5 | . i | und o | ov. und 5 5 | 5 55. | 5 5 | ov. 5 | .pund. | over. A | All Ages | .dod | 9 S | 0 |
| Smallpox Measles Scarlatina | :::: | : ": : %: | : : : : | :** : | ::: | :4 : | ::: | ::: | ::: | :::: | : : : | ::: | ::: | ::: | ::: | ::: | ::: | : :- | : : : | ::: | ::: | ::: | : : : | | ::: | ::: | ::: | 12: | : | 13: | 0-01 | :: | |
| Diphtheria Croup (memb) ,, undefined | ::: | ::: | - : : : : - | ::: | ::: | : := | ::: | - : : | ::: | | | • : : | ::: | | | | - : : | | | | ::: | ::: | | ::: | ::: | :;: | ::: | ⁶⁰ ; 01 | ю :н | 3: | 0-12 | :::: | |
| 1.00 - | ~ | : : | 2 | . 5 | : : | ~ : | : : | 01 | : : | | : : | : : | | 1 | : : | 1 : : | | | | : : | : : | : : | | | : : | : : | : : | 123 | : ~ | 23 | 0-19 | : | |
| CER Enteric | : : | : :: | : : : * | | : : | : : | : : : | | : : : | | | : : | : : | - : | | | | | 10 | | : : | : : | : : | : : | | : : | : : | : : :4 | : - | - :4 | 0.00 | :::: | • • • |
| Cholera | | | | | : : | : : | : : | . Junio | | | - | : : | | | : : | : : | | | | | : : | : : | 4 | | | : : | : : | · : : | : : | : | 3 : | : : | 1 1 |
| Fever Vever | : | : | : | : | : | : | : | ; | - | : | : | : | : | : | : | : | : | | : | : | : | : | : | • | : | : | : | : | - | 1 | 10-01 | : | 1 |
| acute Rhen- | : | : | : | : | CN | : | : | ; | : | : | : | : | ; | : | : | : | : | • | : | : | : | 1 | : | | : | : | : | : | ю | ю | 0.02 | : | |
| Erysipelas Pyaemia | :: | :- | :: | :: | - : | :: | :: | :: | | :: | :: | :: | :: | :: | :: | :: | | :: | :: | ∾ : | :: | :: | :: | :: | :: | :: | :: | :: | юer | N) et | 0.02 | :: | |
| Fuerperal | : | : | : | : | - | : | - | : | 03 | : | : | - | : | : | : | : | ca | : | : | : | : | : | : | : | : | : | : | : | ~ | 00 | 90.0 | : | - |
| Ague Phthisis | 10 | .i 21 | :: 10 | :: | 15 | :: | :• | : | . 15 | 1 10 | :: | :10 | := | : : : | :: | :: | | | :: | :8 | :: | :10 | :: | | :01 | :: | ii | : 4 | 139 | 143 | 1 19 | :: | |
| Pleurisv | 21 19 | 15 26 | 23 13 | 53 | | 6 | 6 | = | 53 | 8 13 | 4 | 2 | 3 1 | 13 | : | : | 10 | | 23 | 13 | : | 5 | : | | : | : | : | 120 | 174 | 595 | 2.44 | : | ~ |
| Heart Disease Injury, &c | °12 : : : | °8 ::: | 1: | (*) | 5 | :: | 44 | : | 02 °2 | 1: | := | 9 : | 17 | | := | :10 | 121 | :: | :: | 81 | :: | - : | :: | :: | ™ : | :: | := | 10 | 169 | 169 | 1-40 | :: | |
| Total of above causes | 29 43 | 19 83 | 32 37 | 7 35 | 61 | 16 | 3 | 18 (| 64 1 | 11 34 | 5 | 17 | 5 38 | : | 1 | 3 | 4 | 6 19 | 4 | 67 | \$ | 12 | : | - | 1 5 | : | 12 | 184 | 569 | 753 | 6.24 | : | 11 |
| All other Scauses | 27 32 | 46 86 | 25 30 | 28 | 69 | 83 | 8 | 47 8 | 59 1 | 18 30 | 2 | 23 | 20 41 | 1 | C3 | 15 8 | . 35 | | 3 10 | 46 | 1 | 13 | : | 6 | 1 12 | : | - | 301 | 695 | 870 | 7.21 | 100 | 12 |
| Total | 131 | 234 | 124 | ca | 221 | 107 | 5 | 188 | 00 | 93 | | 51 | 104 | | 10 | 144 | | 58 | - | 127 | 26 | | 10 | | 19 | | 13 | 485 | 1138 | 1623 | 9t-21 | 65 | 0 |
| Montality per 1,000 per an. | 0.6 | 10.9 | 14-1 | | 1.11 | 11-5 | \$ | 1.11 | - | 7.2 | 10 | 10.5 | 0°.0 | 23 | 35.55 | | | | | | | | | | | | | 34.6 10.7 | | 13.5 | | | |
| | | | | | | | +T. | ere w | ere to | venty- | * There were twenty-eight deaths | eaths | | nston | at Manston Hospital during this quarter. | tal du | ring t | his qu | larter. | | | 11 | " English. | 4 | | | | | | | | | |

1909.-THIRD QUARTER.

Table shewing Deaths recorded in the City of Leeds during the thirteen weeks ended 2nd October, 1909, classified according to cause. age. and the registration sub-districts in which they occurred.

| | | LEEDS | | | | - | | - | | 6 | - | | | 0 | | | - | an I | | | | | - | | - | | | | These |
|---|--|--|---------------------------------------|----------|--|---|--|-----------------|----------------|----------|------------|-----------------|-----------|--------|---------------------------------------|--|--------------|-------------|----------|--------------|--------|-----------------|--------|-----------------|---------|--------------------|--------------|------------------------------|------------------------------------|
| TOWNSHIP | North. | | South E. | | Hunder, Hollisck Wortlaw Kitherall Reamlaw | web W | outles | Kirl | letal! | Bram | | Chapel- | - Osmond- | | In- | Fever | h | - | IOM | W ORK HOUSES | ISRS. | | 8 | Con- umptive | | TOTAL Mortality | A.E. Alty | Annual | of Out- |
| Estimated Population- 484,012 | 58,704 | 85,785 | 35,370 | | 37,320 | 8 | 68,089 | 51 | 51,635 | 19,547 | | town. 47,270 | | | firmary. etc. | , hospi | tais | Leeds. + | Hunslet. | | olbeck | Holbeck Bramley | | Hos- pital. | | in City. | | rate per 1,000 | stders occurring in City. |
| Under and over 5. | und ov. | 5 5 | und ov. | und ov. | 5 5 5. | and the second se | und ov. | | und ov. 5 5 | pun 2 | 2.0 | und ov. | pun 2 | ov. | und ov. | 5 5 | ον, ui | 5 55 | 5 5 | ov. un 5 | 5 5 | pun 2 | Soc. | 5 5 | 5 5 | 5 / | All Ages | 'dod | und: ov. |
| Smallpox Measles Scarlatina Diphtheria Croup (memb) ,, undefined | | :::::::::::::::::::::::::::::::::::::: | : : : : : : : : : : : : : : : : : : : | | : * * * * * * * | | | : * * : * * : : | ::::: | ::::: | | | ::::: | | · · · · · · · · · · · · · · · · · · · | ::=∾ :: | : : 0110 : : | ::::: | | | :::::: | :::::: | :::::: | | :8494 : | : | :5°97 : | 0.17 0.08 0.08 0.01 | |
| Who | 5 | | | 5 | - | : | 1 | 4 | : | : | : | 10 | : | : | : | : | 1: | : | : | | : | : | : | : | 8 | | ļ | 0-18 | : |
| CE Other or Diarrhora | 12: :: 1 13: :: 1 | ::::⊓ ::::∞ | :≓ :: ≅:::2 | ::::8 | :::: | · · · | •••••••••••••••••••••••••••••••••••••• | | :::: | :::: | | :00 :: | | :: :: | · · · · · | :::: | :10 | | ::::: | | :::: | :::: | | | ::::% | -9 :4 | 6 72 | 0.05 | |
| Cholera Rheumatic Fever | :: | : : : : | :: | :: | :: | : : | | :: | : : | : : | :: | | : : | : : | | :: | : : | :: | | | : : | :: | :: | | : : | 1 : : | :: | : : | : : |
| Acute & Sub- acute Rheu- | : | : | : | : | : | : | : | : | : | : | ; | | : | : | ····· | : | : | : | : | | : | : | : | : | : | - | - | 10-0 | : |
| Erysipelas Pyæmia Puerperal | :::: | | • · · · · | : : : | ::: | ::: | : 1: | :::: | ::: | ::: | :::: | | ::: | ::: | : =: : : : | ::: | r : ∞ | ::: | :::: | | :::: | :::: | ::: | ::: | | 03 03 | 60 04 60 | 0-02 | ::: |
| Ague | : : : : : : : : : : : : : : : : : : : | :: :: | :6 ::: | i ii | :: | 1:1- | := | 1 : . | ;0 | :: | 1:0 | 1:1 | :: | :: | : :: | :: | 1 : : | :: :: | :: | ::: | -:- | :: | 1 : : | •:• | := | 107 | 108 | 06-0 | 1: |
| Bronchitis Pneumonia | 23 14 | 11 15 | 15 6 | 12 6 | 10 | 00 | 6 7 | 4 7 | 2 | 63 | 63 | 3 6 | : | : | 3 1 | : | 03 | 2 12 | : | | : | : | : | : | 16 | 88 | 177 | 1-47 | : |
| Heart Disease Injury, &c | :00 -00 -00 -00 -00 -00 -00 -00 -00 -00 | .3 14 | 16 | 14 | :: | 9 20 | 19 | :: | 33 | : : | ∞ ; | 12 | :: | :: | .3 13 | :: | :: | 14 | :: | 7 | := | :: | 4 : | :: | io | 136 | 136 | 1-13 0-39 | :" |
| Total of above causes } | 42 34 | 26 41 | 32 35 | 51 36 | 19 | 25 1 | 16 41 | 1 12 | 30 | ю | 16 | 8 36 | : | : | 8 26 | ю | 13 | 2 40 | : | 4 | 63 | : | 4 | 6 | 222 | 682 | 611 | 2.07 | 1 |
| All other causes | 33 31 | 45 71 | 46 26 | 52 47 | 83 | 8 | 44 51 | 19 | 49 | 10 | 22 | 19 39 | : | 03 | 26 83 | : | 1 | 8 46 | 1 1 | 1 11 | 2 | : | 4 | : | 326 | 515 | 118 | 6-97 | 4 36 |
| Total | 140 | 183 | 139 | 186 | 36 | | 152 | | 110 | 21 | | 102 | | 03 | 143. | 17 | | 96 | 16 | | 9 | 80 | | 9 | 548 | 904 | 1452 | 12-04 | 47 |
| Mortality per an. | 9.6 | 86 | 15-8 | 2.6 | 10-2 | | 0-6 | | 9.8 | 10-5 | 10 | 8.7 | 83 | 23-7 | | | | | | | | | | | 1.62 | 8.5 | 12-0 | | |
| T * | * There were seventeen deaths at Manston Hospital during this quarter. | seventee | n deaths | at Manst | on Hos | pital c | iuring | this c | quarte | | † Includir | | the de | ath of | a Lee | g the death of a Leeds person in temporary premises situated in Chapeltown district. | n in te | amporar | y prem | ises si | tuated | in Ch | apelt | own di | strict. | | " English. | ish. | |

5

Table shewing Deaths recorded in the City of Leeds during the thirteen weeks ended 1st January. 1910.

| I.E.E.D.S. Control of the | 31 33 | |
|--|---|---------------|
| LEE D S. Monter D S. h. West. South R. Hundlet. Holbeck Wortley Kristanl Brandey. Chaptel. Osmond. In: Works South R. Hundlet. Holbeck Wortley Kristanl Brandey. Compatibility. South S. 25300 29943 37320 66069 51,655 19547 47700 349 Workstooress. Con. Con. Con. Montality. M | 46 | |
| LEEDS. Construction More than the Hallbeck Wortley. Kirkstall Bramley. Channel. More than than than that that the Hallbeck Wortley. Kirkstall Bramley. Channel financy. Construction Construction Construction 0 8 55.570 78.570 78.570 78.0758 5.5570 7.005. 19.547 47.270 3.9 6.0058 51.655 19.547 47.270 3.9 6.0058 51.655 19.547 47.270 3.9 6.5 < | | |
| LEEDS. WORKHOUSES. Con- stands MORKHOUSES. Con- stands MORKHOUSES. <t< td=""><td>1.04 2.60 0.60 0.60 6.47 7.51 13.77</td><td></td></t<> | 1.04 2.60 0.60 0.60 6.47 7.51 13.77 | |
| LEEDS. WORKHOUSER. Con- h West. South E. Humlet. Holbeck Wortley. Kirkstall Bramley. Con- | 126 313 72 780 881 1661 | 13.8 |
| LEEDS. WORKHOUSER. Con- h West. South E. Humlet. Holbeck Wortley. Kirkstall Bramley. Con- | 124 207 170 170 44 618 618 | 11.3 |
| LEEDS. West. Norket. Worker. Morket. | 2 106 199 199 199 | 33.0 1 |
| LEEDS. West. South E. Hunster. Holbeck Wortley. Kirkstall Brannley. Commod. In. Fever Workstall Workstall Monthlematry | | |
| LEEDS. Workst. Можен. Нилмен. Нольеск Wortley. Кгіккалаll Bramley. Палалеу. Соллоні. Пал. Укожноловая. 06 85,735 55,570 79,943 37,320 66,069 51,655 19,647 47,770 336 66,096 51,655 19,647 47,770 336 66,096 51,655 19,647 47,770 336 66,096 51,655 19,657 47,770 336 66,096 51,655 19,657 47,770 336 66,096 51,655 19,657 47,770 336 66,096 51,655 19,657 47,770 336 56,666 51,655 51,655 56 <td></td> <td></td> | | |
| L. E. E. D. S. Most. Bunslet. Hunslet. Houset. Wortley. Kinkstall Bramery. Changel. Samond. Fever. Work. Work. 00 86,736 35,370 79,943 37,320 68,099 51,655 19,547 47,270 359 $+$ | . 1 1 1 2 6 | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | |
| LEED S. West. South E. Hunslet. Holbeck Wortley Kitkstall Bramley. Chappel- town. Display. Fever town. Wost. South E. M 85/785 35,370 79,943 37,320 66,099 51,655 19,547 47,270 359 4 4 Hunslet. 0 0 undf ov. undf ov. <td>·····</td> <td></td> | ····· | |
| LE E D S. Mest. South E. Hunslet. Holbeck Wortley. Kliskstall Bramley. Collapsel Osmond. In. Fever $+$ < | | |
| LE E D S. Mest. South E. Hunslet. Holbeck Wortley. Kliskstall Bramley. Collapsel Osmond. In. Fever $+$ < | 14 10 14 15 15 15 15 15 15 15 15 15 15 15 15 15 | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | |
| LEEDS. Hunslet. Holbeck Wortley. Kritstall Bramley. Chappel Osmond. In. Fever f 04 85,785 35,570 79.943 37,320 68.099 51,635 19.647 47.270 339 \bullet \bullet 05 | 8 57 28 15 51 53 55 55 55 55 55 55 55 55 55 55 55 55 | |
| LEEDS. Mest. South E. Hunslet. Holbeck Wortley. Kirkstall Bramley. Chapel. Osmond. In. 04 85,735 35,570 79,943 37,320 68,099 51,655 19,547 47,270 339 $^{correl.}$ Hunslet. 05 | 10 6 1 138 138 | |
| LEED S. h. West. South E. Hunslet. Holbeck Wortley. Kirkstall Bramley. Chapel. Osmond. In 06 85.735 35.370 79.943 37.320 68.099 51.635 19.547 47.270 339 firmary, thorse. 06 85.735 35.370 79.943 37.320 68.099 51.635 19.547 47.270 339 etc. 1 | .: 0 :: 0 | |
| LEED S. h. West. South E. Hunslet. Holbeck Wortley. Kirkstall Bramley. Charpel. Osmond. In. 06 85,785 35,570 79,943 37,320 68,099 51,655 19,547 47,270 339 etc 05 | 8 H 2 :: : : : : : | |
| I.F.E.D.S. h. West. South E. Hunslet. Holbeck Wortley. Kirkstall Bramley. Chappel. Osmond. 04 85.785 35.570 79.943 37.320 68.069 51,655 19.547 47.270 33.6 05 11 12 12 11 12 | | |
| I.F.E.D.S. Most. South E. Hunslet. Holbeck Wortley. Kirkstall Bramley. Chappel. Osmond. 04 85.785 35.570 79.943 37.320 68.099 51.655 19.547 47.270 339 05 | 1 11 15 3 15 3 11 7 11 7 11 7 138 | |
| LEEDS. Most. South E. Hunslet. Holbeck Wortley. Kirkstall Bramley. Chapel- town. Osmo 04 85,785 35,570 79,943 37,320 68,099 51,635 19,547 47,270 33 05 15 | | |
| LEEDS. h. West. South E. Hunslet. Holbeck Wortley. Kirkstall Bramley. Chapel.town. 06 85,735 35,370 79,943 37,3200 68,099 51,635 19,547 47,270 0v. und ov. und u. u. u. u. u. | ······································ | 23-7 |
| LEEDS. h. West. South E. Hunslet. Holbeck Wortley. Kirkstall Bramley. Cha 04 85,785 35,370 79,943 37,320 68,099 51,635 19,547 47.1 0v. und <ov.< td=""> und<ov.< td=""> und</ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<></ov.<> | | |
| LEEDS. Mest. South E. Humslet. Holbeck Wortley. Kirkstall Bramley. 04 85,785 35,370 79.943 37,320 68,099 51,635 19,547 ov. und ov. < | | 6.5 |
| LEEDS. h. West. South E. west. South E. west. South E. 35,370 ov. und ov. 5 5 5 5 5 5 5 5 5 5 1 1 1 1 1 1 2 2 1 4 1 2 1 1 1 1 1 1 2 1 | | |
| LEEDS. h. West. South E. west. South E. west. South E. 35,370 ov. und ov. 5 5 5 5 5 5 5 5 5 5 1 1 1 1 1 1 2 2 1 4 1 2 1 1 1 1 1 1 2 1 | 6 2 2 | 12.3 |
| LEEDS. h. West. South E. west. South E. west. South E. 35,370 ov. und ov. 5 5 5 5 5 5 5 5 5 5 1 1 1 1 1 1 2 2 1 4 1 2 1 1 1 1 1 1 2 1 | | |
| LEEDS. h. West. South E. west. South E. west. South E. 35,370 ov. und ov. 5 5 5 5 5 5 5 5 5 5 5 5 5 5 1 | 9 19 39 19 30 10 19 30 10 10 10 10 10 10 10 10 10 10 10 10 10 | 9.6 |
| LEEDS. h. West. South E. west. South E. 85,785 35,370 v. und ov. und ov. 5 5 5 5 5 5 5 5 5 1 | | |
| LEEDS. h. West. South E. west. South E. west. South E. 35,370 ov. und ov. 5 5 5 5 5 5 5 5 5 5 1 1 1 1 1 1 2 2 1 4 1 2 1 1 1 1 1 1 2 1 | 11 24 24 24 24 24 25 24 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25 | 11.1 |
| LEEDS. h. West. South E. west. South E. 85,785 35,370 v. und ov. und ov. 5 5 5 5 5 5 5 5 5 1 | 1 17 30 29 29 | Ξ |
| LEEDS. h. West. South E. west. South E. 85,785 35,370 v. und ov. und ov. 5 5 5 5 5 5 5 5 5 1 | 7 15 2 2 3 5 5 3 5 5 10 9 35 10 9 | 11.7 |
| LEEDS. h. West. South E. west. South E. 85,785 35,370 v. und ov. und ov. 5 5 5 5 5 5 5 5 5 1 | 20 I I I I I I I I I I I I I I I I I I I | 11 |
| LEEDS. h. West. South E. west. South E. west. South E. 35,370 ov. und ov. 5 5 5 5 5 5 5 5 5 5 5 5 5 5 1 | 17 2 24 17 57 57 210 | 10-5 |
| L E E D S h. West. b. West. b. West. b. West. b. 1. West. b. 1. West. b. 1. 1. 1. b. 1. 1. b. 1. 1. b. 1. 1. b. 1. 1. b. 1. 1. c. | | 10 |
| LEEDS LEEDS Nest. Nest. Nest. Nest. Nest. 1 1 1 1 1 1 1 1 1 1 1 1 1 | 5 23 23 23 24 29 29 29 29 29 29 29 29 29 29 29 29 29 | ça |
| L E E D S h. West. b. West. b. West. b. West. b. 1. West. b. 1. West. b. 1. 1. 1. b. 1. 1. b. 1. 1. b. 1. 1. b. 1. 1. b. 1. 1. c. | : 8 :: 8 8 8 | 15-2 |
| LEE LEE 1 1 1 1 1 1 1 1 1 1 1 1 1 | 18 96 91 91 91 91 | 5 |
| ig g <u>39</u> :::":: : :: :: : : : : : | 26 8 20 2: II :: 26 8 8 20 2: II :: | 11-5 |
| | 113 21 21 21 21 21 21 21 21 21 21 21 21 21 | 9-0 |
| North. 58,704 58,704 1 1 1 1 1 1 1 1 1 1 1 1 1 | 11 19 13 | |
| A: | | 1,000 per au. |
| TOWNSHIP &c | Phithisis Brouchitis Pneumonia Pheurisy Hearrisy Hearrisy Rotal of above causes All other Causes Total | 0 per |
| TOWNSH Reaking the state of the second secon | Phithisis Brouchitii Pheurisy Heart Dia Heart Dia Injury, & All other Causes Total | 1,00 |

1910.—FIRST QUARTER. Table shewing Deaths recorded in the City of Leeds during the thirteen weeks ended 2nd April, 1910, classified according to cause are and the registration sub-districts in which they occurred.

| | | CIGO | CIGOSIICG | | 8000 MIL | | 10 cause | | 450,0 | and | | 0 | 1.02120112011 | | | | | | | | 10 | 50 | | | Ì | 1 | |
|---|-------------------|-----------------------|-------------|------------|----------|-----------|------------------|--|----------|-----------------|------------------|-------------------|---------------|--------|-------------------------|--------|--------|------------|---------|-----------------|------|----------------------------|-------------------------------|--------------------------|--------|--------------------------------------|-----------------------------------|
| | | LEEDS | vi | | | | | | | | | | | | | | - | WORKHOUSES | ouses. | | | Con. | | TOTAL | | | Deaths |
| TOWNSHIP &c Estimated Pormlation- | North. | West. | South E. | | let. H | olbeck | Wortley. | Hunslet, Holbeck Wortley, Kirkstall Bramley. | II Bramb | | Chapel- town. | Osmond thorpe. | d. In- | | Fever Hospitals * | Ľ. | | Hunslet. | Holbec | Holbeck Bramley | h | sumptive Hos- pital. | | Mortality in City. | - | Annual rate per o | Out- siders securring in |
| 490,985 | 58,661 and: ov | 86.0 | 35. mud | 81,2 | 13 | | 69,206 vo bro | 52,8 | 19.8 | | | 334 and: ov | | - AO | | | | 0V. | and; ov | pund | 0V. | und ov. | und. : | over. | All | | City. |
| over 5. | 5 | 0 | 2 | -0 | 10 | :0 | 5 5 | 5 | 0 | 22 | 0 | 2 2 | 0 | 0 | 5 5 | 0 | 5 5 | 0 | 5 5 | 5 | 0 | 5 5 | a | 5 A | Ages | | 5 5 |
| Smallpox Measles Scarlatina Diplutheria Croup (memb) , undefined | :::::: | : 1; :::: :: 1; 1; | :::::: | :4 : : : : | | | ::** ::: | ; :• :• : : ; :• :• : : | ::::- | · · · · · · · · | | :::::: | :::::: | :::=:: | 00.02 : : | :::::: | :::::: | ::::: | | ::::: | | :::::: | ⁵ : 9 ⁵ | : | :6040% | 0-07 0-08 0-08 0-02 0-02 | · · · · · · · · |
| Who . | | 4 | 4 | | | : : | 14 1 | : | | | | : | : | : | : | : : | : : | : : | : : | : : | : : | : : | 8 | ~ | 15 : | 0.25 | : |
| Enteric | := | :: | : : : | :: | | :: | :: | :- | : : | :: | ° | :: | : : | : : | 2 | : : | | : : | : : | : | : | : | : : | ß | 6 | 10.0 | :: |
| a C | ::: | ::: :°1 | ::: | - | ::: | ::: := | | ::: : ! | : • | :4 | := | :: | :: | :: | :: | :: | :: | :: | :: | :: | :: | :: | i | :01 | 13: | 0.11 | :: |
| Cholera Rheumatic | : : | ; - | : : | : : | | : : | : : | :: | : : | : : | : : | :: | : : | : : | : : | : : | : : | : : | :: | : : | 1 1 | :: | : : | : ٦ | : = | | :: |
| Acute & Sub- acute Rheu- | 1 | : | : | : | 03 | : | : | : | : | : | : | : | : | : | : | : | : | 1 | : | : | : | : | : | 5 | Q | 0.04 | : |
| Erysipelas Pyæmia Fuerperal | :::: | ; | ::- | :::: | · · · · | :::: | :::: | : 1: | :::: | :::: | ::: | :::: | - : : | :: = | ::- | ::: | | :::: | :::: | *::: | | :::: | ≓ : : | H 01 4 | 0101 4 | 0-02 0-02 0-03 | :::: |
| Ague | 1 .9 | 19 | : : | :: | | 16 | .i 15 | | :: | ::: | 9 | | :: | :03 | :: | | ::: | := | 1-1 | :: | := | :01 | :04 | 122 | 124 | 1.01 | 1: |
| Bronchitis Pneumonia Pleurisy | 17 | 16 36 | 22 22 | 2 | 30 12 | - | 10 22 | 6 14 | Ŕ | | 9 17 | : | 4 | 9 | : | 0 | 00 | 9 . | | 1 2 | 3 01 | : | 130 | 225 | 355 | 2.90 | et 1 |
| Heart Disease Injury, &c | .3 19 | 2 31 | | := | 103 | 0.4 | 23 | .2 | :: | 5 0 | 31 | :: | | 178 | :: | :: | 3-1 | -03 | :: | :: | - : | :: | 16 | 23 | 122 | 0-26 | 1 30 |
| Total of above causes | 24 54 | 26 99 | 35 45 | 31 | 65 18 | 8 41 | 28 65 | 13 42 | 4 | 24 14 | 4 47 | : | 1 6 | 35 | 8 13 | 2 6 | : | Ξ | : | 1 2 | = | 01 | 112 | 620 | 831 | 61.9 | 3 12 |
| All other) causes) | 30 47 | 35 90 | 30 46 | 42 | 74 25 | 5 30 | 42 60 | 20 46 | 00 | 29 18 | 8 57 | | 5 | 8 | 1 | 7 6 | 29 | 6 | ; ; | : | - | | 182 | 645 | 926 | 7:57 | 6 39 |
| Total | 155 | 250 | 156 | 212 | | 114 | 195 | 121 | 65 | | 136 | 1 | 1 | 145 | 23 | 136 | | 20 | 6 | - 20 | | 63 | 492 | 1265 | 1757 | 14.36 | 09 |
| Mortality per an. | 10.6 | 11.7 | 17.6 | 10-5 | | 12.0 | 5.11 | 9.2 | 13.2 | - | 11-11 | 12-0 | | 115 | | | | | | | | | 34.6 | 11.7 | 14-4 | | |
| | N. a. a. a. | | Annal Annal | | | Trant | A desident | -1124 | 1 | 1 II | - adding | | | | | | | | | | | | | | | | |

A. 7.

TABLE B, Part I. (SUB-DISTRICTS.)

TABLE OF POPULATION, BIRTHS, AND OF NEW CASES OF INFECTIOUS SICKNESS, coming to the knowledge of the Medical Officer of Hoolth Aurine the 22 weeks of 1000 in the Urban Sanitary District of Leeds : classified according to Diseases, Ages, and Localities.

| the tals. | 13 | | .JATOT | នឌីខរ | 237 | 888 | 388 | 828 | 134 | 283 | 582 | 145 | - :- | 419 1219 600 | 2238 |
|--|---------------------|-----------------|---------------------------------------|--|--|--|---------------------------------------|--|--|--|--|--|--|--|-------------|
| es in ospit | 12 | | Other. | 19 | 1231 | 1000 | 10 13 | M I | 044 | :00- | 100 | 01 10 | ::: | 33 81 70 | 184 |
| Number of such Cases Removed from their Homes in the several Localities for Treatment in the Isolation Hospitals. | 11 | - 1 | Erysipelas | °": " | :12 | :HO | :=•• | : :4 | : :* | : := | :=0 | : := | ::: | 384-1 | 43 |
| beir l | 10 | | Cholera. | ::: | ::: | : : : | : : : | ::: | ::: | ::: | ::: | ::: | :::: | ::: | : |
| be Is | 6 | | Puerperal. | ::: | : :03 | ::= | : :** | ::: | · : 10 | ::: | ::: | : :** | ::: | :: : ത | 6 |
| in th | 00 | | Relapsing. | | ::: | ::: | : : : | ::: | : : : | ::: | ::: | ::: | ::: | ::: | : |
| ment | 1 | Fevers | Continued. | ::: | ::: | ::: | ::: | | ::: | ::: | ::: | ::: | ::: | ::: | : |
| reat | 9 | E | Enteric or | ~=8° | 190% | : | :08 | 15 | ;r=4 | : :00 | :=-0 | :=-03 | ::: | 57 37 107 | 150 |
| for J | 10 | | Typbus. | ::: | :=•0 | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | :==0 | t |
| such | 4 | sn | Membrano. | ::: | ::: | ::: | :** : | : : : | ::: | : : : | | - : : | ::: | 0103 : | 4 |
| r of | 00 | 1 | Diphtheri | 92.29 | \$23 | 15:22 | 355 | 188 | - 0 a | 182 | 01:00 | 888 | : := | 25133 | 852 |
| Number of everal Loca | 63 | 7 | Scarlatina | 284 | | | | 689 | | 292 | | 822 | - : : | 184 1661 41 | 3636 |
| Nuseve | 1 | | kod-llem2 | ::: | : : : | : : : | : : : | : : : | ::: | : : : | ::: | ::: | ::: | | : |
| | 0 | | | 888 | 288 | 388 | 282 | *** | 828 | 388 | 2213 | 205 | FN : CN | | 122 |
| the | 13 | | .JATOT | | | | | | - H- M | - 22 | | . 2011 | | 595 1543 1147 | 3285 |
| r Cases of Sickness in each Locality, coming to the knowledge of the Medical Officer of Health. | 12 | | Other | 19 14 | 162 | n 80 | 4 61 12 | | 044 | :101- | 01 04 ; | 01-10 | ::: | 33 | 189 |
| omin Heal | 11 | - | Erysipelas | 10.0.13 | 89G | 0 M 4 | 0 e 0 g | :08 | NNR | ююф 8 | 1014 | aw _B | : :⊓ | 30 310 | 358 |
| ty, o | 10 | | Cholera. | ::: | ::: | ::: | :: | : : : : | : : : | : : : | ::: | : : : | ::: | ::: | 1 |
| ocali ffice: | 6 | | Puerperal. | : : " | : :0 | : := | : : : - | : := | : : : | : :** | ::= | : :0 | ::: | : :22 | 32 |
| ch L | 00 | | Relapsing. | ::: | ::: | ::: | :: | . : : : | ::: | ::: | ::: | ::: | :::: | ::: | : |
| in ea | 2 | Fevers | Continued. | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | 111 | : |
| the M | 9 | H | Enteric or Typhoid. | 2223 | 008 | 142 | ~== | 1 5 16 | ; 04 00 | :14 | 10% | -1000 | ::: | 1383 | 215 |
| Sick: | 10 | | Typbus. | ::: | :=• | ::: | ::: | :::: | ::: | ::: | ::: | ::: | ::: | e : | 5 |
| s of ledg | 4 | sne | Membrano. | ::: | + : : | : : : | 04 04 | - : : | ::: | ::: | ··· : | - : : | ::: | : 0100 | 11 |
| Case | 3 | 1 | Diphtheria | 49 78 78 | 124 | 288 | 24 29 29 | 36 | 220 | 988 | 240 | 883 | : := | 48688 48688 | 303 |
| New Ca kno | 63 | 1 . | Scarlatina | 2883 | 848 | 132 | 188 | 34 9 | 131 | 528 | 810.0 | 888 | - : : | 162 | 1170 1303 |
| ~ | + | | coq-llam2 | ::: | ::: | : : : | ::: | ::: | ::: | : : : | ::: | ::: | : : : | ::: | : |
| | - | - VC | 14 | 5. ds. | ds, 15, | de, 15, | 12. | 5. ds. | ds, 15, | ds, 15, | ds, | 4 12° | 5, ds, | ds, 50 | 4 |
| | Aged | under 5, | 15 upwards. (e) | Under 5, 5 under 15, 15 upwards. | Under 5, 5 under 15, 15 upwards. | Under 5, 5 under 15, 15 upwards. | Under 5, 5 under 15, 15 unwards | Under 5, 5 under 15, 15 upwards. | Under 5, 5 under 15, 15 upwards, | Under 5, 5 under 15, 15 upwards. | All ages. |
| | ~ | un y | 15 u | 01 5 ut 15 u | 5 m | 5 ur 15 u | 5 m | 5 ur 15 u | 5 m | 5 ur 15 u | ΠÅ. |
| | pə. | ister ister | (f) Be | 1,461 | 1,871 | 1,132 | 1,861 | 1,004 | 1,356 | 944 { | 405 | 952 | 16 | 11,002 | : |
| | 1 | | | | | - | | | | 12 | 11 | 2 | 22 | | |
| Population at all ages. | .600 | 61 Je | Estimation Estimation | 58,704 | 85,785 | 35,370 | 79,943 | 37,320 | 68,099 | 51,635 | 19,547 | 47,270 | 339 | 484,012 | : |
| pulation all ages. | | - | í. | 1 | | 66 | - | 22 | | | | | 379 | the second second second | |
| Pop | | Concise | (<i>b</i>) | 59,291 | 84,340 | 34,299 | 69,064 | 31,572 | 59,328 | 41,561 | 17,299 | 31,845 | 64 | 428,968 | : |
| | 4 | | | : | \$ | 1 | 1 | ; | 3 | 1 | : | : | | : | : |
| | Names of Localities | adopted for the | purpose of mese Statistics. (a) | : | : | : | : | : | | : | : | : | | : | otal |
| | Loc | d fo | (a) (a) | | | | | | | | | . uw | horp | | Grand total |
| | Jos | opte | atisti | North | : . | South-East | islet | Holbeck | tley | Kirkstall | Bramley | Chapeltown | Osmondthorpe | Totals | Gra |
| | ame | pre | 1.00 | Nort | West | Sout | Hunslet | Holl | Wortley | Kirk | Brar | Chaj | Osm | | |

discontinued in November, 1900, the fever cases being treated entrely in the new hospital at Manston, except that, for a short time during the function unsed Small-pox hospital at Killingbeck was utilised for the purpose. The wards of the new Small-pox hospital at Killingbeck are a quarter of a mile away from any of the buildings on the Manston estate. The whole of the fever accommodation for Leeds is now in the township of Seacroft, only a few hundred yards from the boundary of the brough itself. Seven cases of scarlet fever, further are commodation for Leeds is now in the township of Seacroft, only a few hundred yards from the boundary of the brough itself. Seven cases of scarlet fever, meet of the fever accommodation for Leeds is now in the township of Seacroft, only a few hundred wards from the boundary of the brough itself. Seven cases of scarlet fever, fine meeter so the Manston Hospital at the city, and are not included in this table. Also fifteen meeters of the maston Hospital staff were admitted to Manston Hospital, cance from outside the city, and are not included in this table. Also fifteen meeters of the mean staff were admitted to Manston the cuty. One case of scarlet fever, included in the 3,288 notified in 1906, is included in the 2,238 removed to hospital, although the actual removal did not take place until 1910.

B. I.

TABLE B, Part 2. (Wards).

| | | ation at ages. | | | New | Cas | es of vledg | Sick ge of | ness i the M | in ead Iedic | ch Lo cal O | fficer | y, co of H | ming | to th | ie |
|--|------------------|--------------------------------|--|------------|-------------------|-------------------|----------------------|---------------|---------------------------------------|-----------------|----------------|------------|---------------|-----------------|----------------|---------------------|
| Names of Localities | 1 | 0.00 | Aged | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| adopted for the purpose of these Statistics. | Census, 1901. | Estimated to middle of 1909 | under 5, 5 under 15, 15 upwards. | Small-pox. | Scarlatina. | Diphtheria. | Membranous Croup. | Typhus. | Enteric or Typhoid. | Continued a | | Puerperal. | Cholera. | Erysipelas. | Other. | TOTAL. |
| (a) | (b) | (c) | (<i>d</i>) | Smi | Sca | Dipl | Men | Typ | Ente Typl | Conti | Relapsing. | Puerl | Ċ | Ery | õ | To |
| Central | 20,996 | 19,510 | Under 5, 5 under 15, 15 upwards. | | 13 29 2 | 22 34 24 | | | 1 | | | | | ·:- 4 | 7 | 36 73 40 |
| North | 38,762 | 49,240 | Under 5, 5 under 15, 15 upwards. | ••• | 24 77 20 | 31 60 34 | | | 1 4 13 | | | | | 2 3 47 | 3 11 7 | 61 155 126 |
| North-East | 29,084 | 33,421 | Under 5, 5 under 15, 15 upwards. | ••• | 27 71 11 | 27 71 29 | 1 | | 2 11 17 | | | .i | | 3 1 27 | 596 | 65 163 91 |
| East | 28,297 | 30,800 | Under 5, 5 under 15, 15 upwards. | | 15 57 9 | 12 27 18 | | | 1 3 8 | | | 1 | | 2 3 18 | 388 | 33 98 62 |
| South | 15,047 | 13,345 | Under 5, 5 under 15, 15 upwards. | | 4 11 4 | 454 | | ••• | :209 | | | .i | | 1 15 | 1 5 | 9 19 38 |
| East Hunslet | 33,450 | 40,465 | Under 5, 5 under 15, 15 upwards. | ••• | 9 53 9 | 22 28 26 | 22 | | 2 10 18 | | | 4 | | ·· | 1 8 9 | 36 104 94 |
| West Hunslet | 29,267 | 34,090 | Under 5, 5 under 15, 15 upwards. | | 9 47 6 | 21 35 27 | 1 | | 12 | | | | | 2 1 18 | 4 4 1 | 37 87 67 |
| Holbeck | 27,871 | 33,372 | Under 5, 5 under 15, 15 upwards. | | 14 23 6 | 15 33 41 | | | 1 5 15 | •• | | ••• | | :: 24 | 21 | 30 65 87 |
| Mill Hill | 7,736 | 6,577 | Under 5, 5 under 15, 15 upwards. | | 1 4 7 | 4 6 10 | | | | | | i | | 1 2 9 | 1 1 1 | 7 13 33 |
| West | 23,914 | 23,504 | Under 5, 5 under 15, 15 upwards. | | 7 38 5 | 14 30 23 | | 1 6 | 249 | | | | | 1 1 18 | 477 | 28 81 71 |
| North-West | 32,239 | 35,759 | Under 5, 5 under 15, 15 upwards. | | 11 54 17 | 17 49 28 | | | 7 | | | | | 24 | 2 12 5 | 31 117 81 |
| Brunswick | 22,893 | 23,212 | Under 5, 5 under 15, 15 upwards. | | 22 57 9 | 27 41 17 | ••• | | $\begin{array}{c}1\\1\\10\end{array}$ | | | 'i | | `2 10 | 4 6 3 | 54 107 50 |
| New Wortley | 18,734 | 18,341 | Under 5, 5 under 15, 15 upwards. | | 9 11 6 | 3 | | | 1 3 | | | `i | | ii | 3 | 13 15 26 |
| Armley and Wortley | 36,243 | 44,735 | Under 5, 5 under 15, 15 upwards. | | 23 110 19 | | | | 1 4 | ••• | •• | | | 2 2 17 | 2 4 3 | 37 140 50 |
| Bramley | 21,650 | 24,570 | Under 5, 5 under 15, 15 upwards. | | 24 80 11 | | 3 1 | | ;2 11 | | ••• | | | 1 2 16 | 22 | 53 137 52 |
| Headingley | 42,785 | 53,071 | Under 5, 5 under 15, 15 upwards. | | 17 56 22 | 45 105 109 | | | 1 14 | ••• | | | ••• | 3 4 24 | ·:3 7 | 65 169 179 |
| Totals | 428,968 | 484,012 | Under 5, 5 under 15, 15 upwards. | | 229 778 163 | 295 600 408 | 3 | ·: 1 6 | 11 46 158 | | | | | 18 30 310 | 34 85 70 | 595 1543 1147 |
| Grand total | | | | | 1170 | 1303 | | 7 | 215 | | | 32 | | 358 | 189 | 3285 |

B. 2.

TABLE B, Part 2.-Wards (continued)

| | | lation at ages. | | N | umbe seve | r of ral L | such .ocali | Cas ties f | es Re for Tr | emov | red fi | rom t n Iso | heir | Hou Hou | nes i ospita | n the |
|--|------------------|--------------------------------|--|------------|--------------------|---------------------|----------------------|---------------|------------------------|-------------|-------------------|----------------|----------|--------------|-----------------|---------------------|
| Names of Localities | | 38 | Aged | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| adopted for the purpose of these Statistics. | Census, 1901. | Estimated to middle of 1909 | under 5, 5 under 15, 15 upwards. | Small-pox. | Scarlatina. | Diphtheria. | Membranous Croup. | Typhus. | Enteric or Typhoid. | Continued a | Relapsing, 16 | Puerperal | Cholera. | Erysipelas. | Other. | TOTAL. |
| <i>(a)</i> | (b) | (c) | (<i>d</i>) | Sn | Sci | Dij | Mei | Tyl | Ente Typ | Cont | Rela | Puer | 0 | Ery | - | L |
| Central | 20,996 | 19,510 | Under 5, 5 under 15, 15 upwards. | ••• | 11 27 2 | 20 30 17 | • | ••• | 1 2 | | | ••• | | | 7 6 | 32 64 27 |
| North | 38,762 | 49,240 | Under 5, 5 under 15, 15 upwards. | ••• | 21 65 16 | 22 48 21 | | ··· ··· | | | | 'i | | | 3 11 7 | 47 127 56 |
| North-East | 29,084 | 33,421 | Under 5, 5 under 15, 15 upwards. | ••• | 22 60 10 | 20 62 24 | 1 | ••• | 1 9 15 | ••• | ••• ••• ••• | ••• | | 1 `i | 596 | 50 140 56 |
| East | 28,297 | 30,800 | Under 5, 5 under 15, 15 upwards. | | 14 49 8 4 | 11 26 13 2 | ••• | • | 3 6 | | ••• | `i | | 14 | 368 | 28 85 40 6 |
| South | 15,047 | 13,345 | Under 5, 5 under 15, 15 upwards. Under 5, | ••• | 11 4 7 | 3 4 10 | | ••• | 25 | | ··· ··· | ••• | | | | 17 21 17 |
| East Hunslet | 33,450 | 40,465 | 5 under 5, 5 upwards. Under 5, | | 50 8 7 | 19 12 14 | 1 | | 8 14 | | | ï | | :2 | 9 4 | 85 46 25 |
| West Hunslet | 29,267 | 34,090 | 5 under 15, 15 upwards. Under 5, | | 40 6 8 | 31 20 9 | | | 12 1 | | | 1 | | 13 | 3 1 | 75 43 18 |
| Holbeck | 27,871 | 33,372 | 5 under 15, 15 upwards. Under 5, | | 16 6 1 3 | 20 20 3 | •• | | 4 14 | | | | | 3 | 2 1 1 | 42 44 5 |
| Mill Hill | 7,736 | 6,577 | 5 under 15, 15 upwards. Under 5, | •• | 6 | 1 9 9 | | | | ••• | | | | 3 | 1 4 7 | 5 19 22 |
| West | 23,914 | 23,504 | 5 under 15, 15 upwards. Under 5, | ••• | 35 5 11 | 23 14 10 | ••• | 1 6 | 47 | | | `i | | | 7 2 | 70 46 23 |
| North-West | 32,239 | 35,759 | 5 under 15, 15 upwards. Under 5, | | 43 15 14 | 25 16 24 | ••• | | 13 | ••• | ••• | ••• | | `3 | 12 5 4 | 81 42 42 |
| Brunswick | 22,893 | 23,212 | 5 under 15, 15 upwards. Under 5; | ••• | 49 8 7 | 27 14 1 | | ••• | 4 | ••• | | ï | | 1 | 63 3 | 84 30 11 |
| New Wortley | 18,734 | 18,341 | 5 under 15, 15 upwards, Under 5, | | 7 9 5 20 | 32 6 | | | 12 | | | `i | | 2 | ï | 13 13 28 |
| Armley and Wortley | 36,243 | 44,735 | 5 under 15, 15 upwards. Under 5, | | 88 15 20 | 18 18 | | ••• | 2 | | | 2 | | 2 | 243 2 | 110 24 41 |
| Bramley | 21,650 | 24,570 | 5 under 15, 15 upwards. Under 5, | | 75 11 10 | 42 10 14 | 1 | | 15 | | | | | 12 | 2 | 122 28 24 |
| Headingley | 42,785 | 53,071 | 5 under 15, 15 upwards. | | 41 19 | 55 30 | | | | | | | | ï | 37 | 99 65 |
| Totals | 428,968 | 484,012 | Under 5, 5 under 15, 15 upwards. | | 184 661 144 | 433 | 22 | 6 | 6 37 107 | | | | | 1 4 38 | 70 | 419 1219 600 |
| Grand total | | | | | 989 | 852 | 4 | 7 | 150 | ••• | | 9 | | 43 | 184 | 2238 |

.

B. 3.

ŝ.

New cases of Infectious Sickness heard of in the several Sub-districts and Wards of the City of Leeds during the thirteen weeks ended 3rd April, 1909.

| | | Where treated. | Small- pox. | Scar- let fever. | Diph- theria. | Mem- bran- ous croup. | Ty- phus fever. | I y- phoid fever. | Con- tinued fever. | Puer- peral lever. | Erysi- pelas. | Cho- lera. | Other. | TOTALS. |
|----------------|------------------|-------------------|----------------|------------------------|------------------|--------------------------------|-----------------------|-------------------------|--------------------------|--------------------------|------------------|---------------|---------|---|
| | North | (Hosp. Home | | 6 1 | 14 7 | | | 2 | | | 2 17 | a | 6 | $\binom{30}{26}$ 56 |
| | West | {Hosp. Home | | 22 2 | 25 22 | I | | 4 5 | | I I | 6 17 | | II | 69 48 117 |
| | South-East | {Hosp. Home | | 5 | 9 | | | 1 3 | | | 2 4 | | 3 | ²⁰ 8 28 |
| CTS. | Hunslet | (Home | | 24 4 | 14 14 | I | | 11 4 | | I | 3 16 | | 5 | 58 40} 98 |
| SUB-DISTRICTS. | Holbeck | {Hosp. Home | | 56 | 7 31 | I | | 2 1 | | | 15 | | 3 | $\begin{pmatrix} 18\\44 \end{pmatrix} 62$ |
| DIS. | Wortley | (Hosp. Home | | 26 5 | 12 7 | | | I 2 | | 1 2 | 38 | | 6 | 49 24 } 73 |
| SUB | Kirkstall | (Hosp. (Home | | 16 7 | 13 27 | | | | | I | 1 9 | | 3 | 33 47 80 |
| | Bramley | {Hosp. Home | | 10 2 | 5 7 | | | 43 | | | I | | | $\begin{pmatrix} 19\\ 13 \end{pmatrix} 3^2$ |
| | Chapeltown | {Hosp. Home | | 17 7 | 42 20 | | | 1 | | | 15 | | 7 | 67 42 109 |
| | Osmondthorpe | (Hosp. Home | | | 1 | | | | | | | | | I { |
| - | (| (Hosp. | | | 8 | | | | | | | | | |
| | Central | Home (Hosp. | | 1 | 4 | | | | | | | | 3 | 12 4 16 |
| | North | Home (Hosp. | | 14 | 13 | | | 2 | | | I 20 | | 4 | 41 36 77 |
| | North-East | Home (Hosp. | | 5 2 | 29 9 8 | | | I | | I | II | | 6 | $\begin{pmatrix} 42\\23 \end{pmatrix} 65$ |
| 1 | East | Home | | 4 | | | | I | | | 2 4 | | 3 | ¹⁸ 6} 24 |
| | South | {Hosp. Home | | I | 2 | | | 3 | | | I | | | 3 9 |
| | East-Hunslet | {Hosp. Home | | 14 4 | 58 | I | | 8 | | | 1 9 | | 2 I | 30 26 56 |
| | West-Hunslet | Hosp. Home | | 12 | 10 | I | | 4 | | I | 2 6 | | 4 | $\begin{pmatrix} 33 \\ 12 \end{pmatrix} 45$ |
| WARDS. | Holbeck | {Hosp. Home | | 36 | 5 30 | | | 1 1 | | | 5 | | 2 | $\begin{pmatrix} 12 \\ 42 \end{pmatrix} 54$ |
| WA | Mill Hill | {Hosp. Home | | 5 | 1 3 | | | I | | | 2 1 | | | $\binom{8}{6}$ 14 |
| | West | {Hosp. Home | | | 11 | | | 3 1 | | I | 2 5 | | 7 | $\begin{pmatrix} 28\\ 14 \end{pmatrix} 4^2$ |
| | North-West | {Hosp. Home | | 12 | 5 | I | | I | | | 1 6 | | 2 | $\begin{pmatrix} 21\\12 \end{pmatrix}$ 33 |
| | Brunswick | {Hosp. Home | | 3 4 | 8 | | | 2 | | | 1 5 | | 2 | $14 \\ 19$ 33 |
| | New Wortley | {Hosp. Home | | 1 2 | I | | | I | | I | 2 2 | | 2 | $\begin{pmatrix} 8\\5 \end{pmatrix}$ 13 |
| | Armley & Wortley | (mome | | 21 3 | 8 | | | 2 | | I | 1 6 | | 4 | $\left. \begin{array}{c} 34 \\ 18 \end{array} \right\} 5^2$ |
| | Bramley | {Home | | 14 2 | 8 7 | | | 43 | | I | I | | | $\begin{pmatrix} 26 \\ 14 \end{pmatrix} 40$ |
| - | Headingley | {Hosp. Home | | 17 7 | 13 28 | | | | | I | I IO | | 3 | $34 \\ 49 \\ 83$ |
| - | | (Hosp. | | 131 | 1.0 | | | 26 | | | 18 | | | |
| | Сіту | llome | | 131 35 | 142 135 | 3 | | 20 21 | •••• | 3 5 | 18 92 | | 44 I | $\binom{364}{292}656$ |
| | | Cases | | 166 | 277 | 3 | | 47 | | 8 | 110 | | 45 | 656 |

One maid contracted diphtheria, one nurse typhoid, and one maid erysipelas. All were treated in the Hospital. These are not included in the 142, 26, and 18, given above. Manston Hall is outside the City.

B. 4.

New cases of Infectious Sickness heard of in the several Sub-districts and Wards of the City of Leeds during the thirteen weeks ended 3rd July, 1909.

| | | Where treated. | Small- pox. | Scar- let fever. | Diph- theria. | Mem- bran- ous croup. | Ty- phus fever. | Ty- phoid fever. | Con- tinued fever. | Puer- peral fever. | Erysi- pelas. | | Other. | TOTALS. |
|----------------|------------------|-------------------|----------------|------------------------|------------------|--------------------------------|-----------------------|------------------------|--------------------------|--------------------------|------------------|-----|--------|---|
| | (North | {Hosp. Home | | 21 2 | 42 6 | | | 52 | | 2 | 10 | | 4 | $\begin{pmatrix} 72 \\ 22 \end{pmatrix}$ 94 |
| | West | {Hosp. Home | | 51 2 | 36 30 | | 7 | 2 2 | | | 3 15 | | 15 | ¹¹⁴ ₄₉ }163 |
| | South-East | Hosp. Home | | 7 1 | 14 | | | I | | I | 2 2 | | 6 1 | $\begin{pmatrix} 3_1 \\ 7 \end{pmatrix} 3_8$ |
| TS. | Hunslet | Hosp. Home | | 13 1 | 34 20 | | | 8 1 | | I 2 | I IO | | 9 | 66 34 100 |
| RIC | Holbeck | Hosp. Home | | 52 | 22 2 | | | I | | I | 1 5 | | I | 30 10 40 |
| DIST | Wortley | {Hosp. Home | | 29 | 3 | | | 2 | | | 1 8 | | I | $\frac{34}{20}$ 54 |
| SUB-DISTRICTS. | Kirkstall | (Hosp. Home | | 5 | 3 49 78 | | | 1 I I | | | | | 7 | 68 86 154 |
| s | Bramley | (Hosp. Home | | 10 | 5 | | | | | | 5 I | | I | 17) 00 |
| | Chapeltown | {Hosp. Home | | 37 | 25 | | | | | | 3 | | 4 | 66 1.12 |
| | Osmondthorpe | (Ham | | <u> </u> | 21 | | ···· | 3 | | | 10 | ••• | | 46 |
| - | | Tiome | | | | | | | | | | | | <u> </u> |
| - | Central | {Hosp. Home | | 8 | 15 | | | | | I | I | | 3 | 26 6 32 |
| | North | {Hosp. Home | | 39 7 | 21 | | | 4 | | 2 | | | 5 | 651 08 |
| | North-East | Hosp. Home | | 9 | 32 | | | 5 | | | | | 1 | $\begin{array}{c} 33 \\ 47 \\ 16 \\ 63 \end{array}$ |
| | East | {Hosp. Home | | 6 | 12 | | | I I | | I | 2 | | 6 | 28 24 |
| | South | f Hosp. | | 2 | 2 | | | 2 | | | I | | I | 81 12 |
| | East-Hunslet | \Home ∫Hosp. | | 6 | 17 | | | 5 | | 1 1 | 3 | | 8 | 37 50 |
| 1 | West-Hunslet | \Home ∫Hosp. | | 6 | 14 | | | I | •••• | | 6 | | I | 26] 27 |
| DS. | Holbeck | (Hosp. | | 5 | 20 | | | I | ••• | | <u>3</u> 1 | | | 27] 27 |
| WARDS. | Mill Hill | (Home ∫Hosp. | | 2 I | 3 | | | <u></u> | | <u></u> | | | | 81 33 |
| M | West | (Home (Hosp. | | 7 | 9 | | 7 | I | | | 3 | | 3 | $\frac{5}{4}$ 9 |
| | North-West | {Home (Hosp. | | 7 | 3 | | | | | | 41 | | | 7/ 34 |
| | Brunswick | \Home ∫Hosp. | | 38 | 25 16 | | | 2 | | | 6 | | | 33 54 |
| | New Wortley | (Home ∫Hosp. | | 2 | 2 | | | I | | | 2 | | I | 71 09 |
| | Armley & Wortley | (Home ∫Hosp. | | 23 | <u> </u> | | | | | | 2 | | | $\frac{5}{3}$ 8 |
| | Bramley | (Home (Hosp. | | 5 | 1 5 | | | I | | | 6 | | I | 14 41 |
| | Headinglau | Home Hosp. | | I1 | 3 49 | | | 2 1 | | | 3 | | | $\begin{array}{c} 19\\ 9 \end{array}$ 28 |
| - | (rreadingiey | Home | | 3 | 88 | | | I | | | 5 | | 7 | $\binom{68}{97}$ 165 |
| - | | (Hosp. | | 184 | 230 | | 7 | 18 | | 2 | 9 | | 48 | 498) |
| | Сіту | Home | | 26 | 164 | | | 13 | | 8 | 9 68 | | I | 498 280}778 |
| _ | | Cases | | 210 | 394 | | 7 | 31 | | IO | 77 | | 49 | 778 |

One nurse contracted diphtheria, and was treated in the Hospital, but is not included in the 230 given above. Manston Hall is outside the City.

B. 5.

New cases of Infectious Sickness heard of in the several Sub-districts and Wards of the City of Leeds during the thirteen weeks ended 2nd October, 1909.

| | | Where treated. | Small- pox. | Scar- let fever. | Diph- theria. | Mem- bran- ous croup. | Ty- phus fever. | Ty- phoid fever. | Con- tinued fever. | Puer- peral fever. | Erysi- pelas. | Cho- lera. | Other. | TOTALS. |
|----------------|------------------|-------------------|----------------|------------------------|------------------|--------------------------------|-----------------------|------------------------|--------------------------|--------------------------|------------------|---------------|---------|--|
| | North | {Hosp. Home | | 63 2 | 46 7 | | | 12 I | | I | 1 6 | | 17 | 139 17)156 |
| | West | {Hosp. Home | | 42 5 | 44 16 | | | 9 4 | | I I | 1 9 | | 6 | 103 35 138 |
| | South-East | {Hosp. Home | | 36 | 13 3 | | | 6 1 | | | 2 6 | | 3 | 60 10} 70 |
| TS. | Hunslet | {Hosp. Home | | 34 I | 27 12 | | | 7 1 | | | 3 | | 5 | 76 26 102 |
| RIC | Holbeck | Hosp. Home | | 8 | 16 6 | | | 5 | | | I Q | | I | $31 \\ 16$ 47 |
| ISIO | Wortley | {Hosp. Home | | 31 5 | 73 | | | I | | 2 | 7 | | 2 | 43 16 59 |
| SUB-DISTRICTS. | Kirkstall | Hosp. | | 16 | 23 24 | | | 3 | | | | | | $\left(\begin{array}{c} 42\\ 37\\ 37\end{array}\right)$ 79 |
| s | Bramley | {Hosp. Home | | 18 | 13 1 | I | | I | | | 2 4 | | 2 | $36 \\ 8 \\ 44$ |
| | Chapeltown | Hosp. | | 24 | 18 | | | 2 4 | | I | -4 I 4 | | I | 47 70 |
| | Osmondthorpe | (Hann | | | | | | | | | -4 I | | | |
| - | | (| | | | | | | | | | | | |
| | Central | {Hosp. Home | | 19 1 | 27 3 | | | | | | | | 3 | 49 7 56 |
| | North | {Hosp. Home | | 23 I | 23 10 | | | 6 | | II | 1 4 | | 8 | 62 16 78 |
| | North-East | {Hosp. Home | | 42 4 | 14 2 | | | 8 | | | 1 3 | | 7 | 72 13 85 |
| | East | {Hosp. Home | | 34 | 12 1 | | | 5 1 | | | I 4 | | 2 | 55 61 |
| | South | {Hosp. Home | | 8 | 3 | ···· | | I | | | 2 5 | | 4 | 18 25 |
| | East-Hunslet | {Hosp. Home | | 16 | 11 8 | | | 31 | | | 1 7 | | 2 | 33 49 |
| 1 | West-Hunslet | 177 | | 12 1 | 16 5 | | | 3 | | | 13 | | I | $\begin{pmatrix} 3^2 \\ 10 \end{pmatrix} 4^2$ |
| DS. | Holbeck | {Hosp. Home | | 8 | 14 5 | · | | 5 1 | | | 1 8 | | I | 29 14 43 |
| WARDS. | Mill Hill | Hosp. Home | | | 3 | | | | | | I | | | 3] 7 |
| | West | {Hosp. Home | | 5 | 12 | | | 7 | | I | 1 3 | | 3 | $\frac{4}{28}$ 39 |
| | North-West | {Hosp. Home | | 23 | 13 5 | | | 1 2 | | · · · · | 5 | | I | $38 \\ 15 \\ 53$ |
| | Brunswick | {Hosp. Home | | 17 4 | 16 3 | | | 1 2 | | 1 | | | 2 | 37 46 |
| | New Wortley | {Hosp. Home | | 2 | 3 | | | I | | | | •••• | I | 6 5 11 |
| | Armley & Wortley | | | 28 4 | 4 2 | | | 1 | •• | 2 | 5 | •••• | I | 36] 47 |
| | Bramley | {Home | | 19 I | 13 | I | | I I | | | 2 4 | | 2 | $\frac{11}{37}$ 45 |
| | Headingley | (Hosp. Home | | 16 4 | 23 | | | 3 | | | 4 | | | $\frac{42}{37}$ 79 |
| | | | | 4 | | | | | | | | | | 37) |
| | Сіту | Hosp. Home | | 272 24 | 207 81 | I | | 46 16 | | 4 2 | 11 64 | | 37 I | 577 189}766 |
| | | Cases | | 296 | 288 | I | | 62 | | 6 | 75 | | 38 | 766 |

One Assistant Medical Officer contracted diphtheria, and was treated in the Hospital, but is not included in the 207 given above. Manston Hall is outside the City. In addition to the 577 cases hospitalled (out of the 766 reported during the quarter), one case of diphtheria which had been reported in the previous quarter was also taken to hospital.

B. 6.

New cases of Infectious Sickness heard of in the several Sub-districts and Wards of the City of Leeds during the thirteen weeks ended 1st January, 1910.

| | | treated. | Small- pox. | Scår- let fever. | Diph- theria. | Mem- bran- ous croup. | Ty- phus fever. | lever. | Con- tinued fever. | Puer- peral tever. | Erysi- pelas. | Cho- lera. | Other. | |
|----------------|------------------|-----------------|----------------|------------------------|------------------|--------------------------------|-----------------------|----------|--------------------------|--------------------------|------------------|---------------|---------|---|
| | North | {Hosp. Home | | 45 4 | 47 4 | | | 18 2 | | I | 1 16 | | 12 | 123 27 } 150 |
| | West | {Hosp. Home | | 74 18 | 70 20 | | | 75 | | I | 3 15 | | 22 | ¹⁷⁶ 59 ²³⁵ |
| | South-East | {Hosp. Home | | 30 8 | 18 4 | | | 3 1 | | | 1 I | | 7 1 | $58 \\ 25 \ 83$ |
| CTS. | Hunslet | {Hosp. Home | | 48 7 | 30 5 | 1 2 | | 12 3 | | | | | 7 1 | 98 34] 132 |
| LRIC | Holbeck | {Hosp. Home | | 22 7 | 11 5 | | | 12 | | | 1 7 | | | 46 19} 65 |
| DIST | Wortley | {Hosp. Home | | 73 | 16 3 | | | 3 | | | 7 | | 4 | 96 32 128 |
| SUB-DISTRICTS. | Kirkstall | {Hosp. Home | | 26 11 | 14 16 | | | 4 1 | | 2 | | | | 44 38} 82 |
| 01 | Bramley | {Hosp. Home | | 51 | 38 3 | 2 I | | I I | | I | 6 | | I | 93 110 |
| | Chapeltown | {Hosp. Home | | 30 16 | 28 12 | I | | 2 | | | | | 2 | 61 38} 99 |
| | Osmondthorpe | (Hern | | I | | | | | | | | | | I { I |
| | | | | | | | | | | | | | | |
| | Central | {Hosp. Home | | 12 2 | 17 3 | | | 3 1 | | | | | 4 | $\binom{36}{9}$ 45 |
| | North | {Hosp. Home | | 26 8 | 27 3 | | | 4 2 | | I | 1 13 | | 4 | $\begin{pmatrix} 62 \\ 27 \end{pmatrix} 89$ |
| | North-East | Hosp. Home | | 36 8 | 31 4 | I | | II I | | | | | 6 | 85 106 |
| | East | {Hosp. Home | | 27 8 | 18 4 | | | 1 | | | | | 6 I | $\binom{52}{22}$ 74 |
| | South | {Hosp. Home | | 8 | 2 | | | 4 1 | | | | | I | 15 5 20 |
| | East-Hunslet | {Hosp. Home | | 29 2 | 85 | I 2 | | 63 | | 2 | 7 | | 4 I | 48 22 70 |
| | West-Hunslet | {Hosp. Home | | 23 7 | 21 2 | | | 4 | | I | 1 5 | | 3 | 5^{2}_{15} 67 |
| CDS. | Holbeck | {Hosp. Home | | 14 5 | 10 3 | | | 12 | | | | | | 36 14 50 |
| WARDS. | Mill Hill | {Hosp. Home | | 4 | 6 1 | | | 3 | | I | | | 3 | 13 10 23 |
| 1 | West | {Hosp. Home | | 31 | 14 5 | | | 3 | | | 2 | | 5 | 55 10 65 |
| | North-West | {Hosp. Home | | 27 9 | 25 9 | | | 2 | | | 1 5 | | II | 66 23 89 |
| | Brunswick | {Hosp. Home | | 13 7 | 25 7 | | | 2 | | | | | 3 | $\begin{array}{c} 43\\ 20 \end{array}$ 63 |
| | New Wortley | {Hosp. Home | | 14 2 | I | | | 2 | | | | | | 17 22 |
| | Armley & Wortley | (riome | | 51 17 | 93 | | | I | | | 2 | | 4 | 65 22 87 |
| | Bramley | {IIosp. Home | | 59 8 | 44 | 2 I | | I | | I | | | I | 107 22 129 |
| | Headingley | {Hosp. Home | | 26 11 | 14 20 | | | 4 1 | | 2 | | • | | 44 42 86 |
| _ | | | | | | | | | | | | | | ¢ |
| | Сіту | Hosp. Hosp. | | 400 98 | 272 72 | 4 3 | | 60 15 | | 8 | 5 91 | | 55 2 | $\binom{796}{289}$ 1085 |
| | (| Cases | | 498 | 344 | 7 | | 75 | | 8 | 96 | | 57 | 1085 |

Two nurses and five maids contracted scarlet fever, two nurses diphtheria, and one nurse typhoid fever. All were treated in hospital. These are not included in the 400, 272, and 60, given above. Manston Hall is outside the City. In addition to the 796 cases hospitalled (out of the ro85 reported during the quarter), one case of scarlet fever which had been reported in the previous quarter, was also taken to hospital.

B. 7.

New cases of Infectious Sickness heard of in the several Sub-districts and Wards of the City of Leeds during the thirteen weeks ended 2nd April, 1910.

| | | Where treated. | Small- pox. | Scar- let fever. | Diph- theria. | Mem- bran- ous croup. | Ty- phus fever. | T y. phoid fever. | Con- tinued fever. | Puer- peral fever. | Erysi- pelas. | Cho- lera. | Other. | TOTALS. |
|---------------|------------------|--|----------------|------------------------|------------------|--------------------------------|-----------------------|-------------------------|--------------------------|--------------------------|------------------|---------------|--------|---|
| | North | {Hosp. Home | | 46 I | 29 1 | | | II | | I | 3 13 | | 13 | 102 16 118 |
| | West | {Hosp. Home | | 41 7 | 46 10 | I | | 4 1 | | 2 | 2 12 | | 5 | 98 33) 131 |
| | South-East | {Hosp. Home | | 22 4 | 17 3 | | | 33 | | | . 2 7 | | 4 | (8) 19) 67 |
| TS. | Hunslet | {Hosp. Home | | 52 8 | 24 8 | | | 5 | | I | 1 20 | | 9 | 92 38 130 |
| SUB-DISTRICTS | Holbeck | {Hosp. Home | | 27 | 5 | | | | | | 1 6 | | | 33 40 |
| IST | Wortley | ∫Hosp. | | 5 28 | 5 14 | I | ••• | | | | | | 4 | 47 74 |
| JB-D | Kirkstall | (Home (Hosp. | | 7 26 | 11 18 | | | 2 | | I | 8 I | | 2 | 49 92 |
| SL | | (Home (Hosp. | | 12 | 15 | | | <u>3</u> 1 | | | 12 | | I | 43/ 92 |
| | Bramley | (Home (Hosp. | | 6 39 | 2 | | | I | | | 6 | | | 14 J 3* |
| | Chapeltown | (Home (Hosp. | | 15 | 5 | | | 6 | | | IO | | | 36 100 |
| | Osmondthorpe | (Home | | I | | | | | | | | | | I { I |
| - | (- | (Hosp. | | 9 | 8 | | | 2 | | | 2 | | 5 | 26) 28 |
| | Central | Home (Hosp. | | | | | | | | | 2 | | | 2) 20 |
| | North | (Home | | 35 8 | 15 3 | | | 4 | | I | 17 | | | $\begin{pmatrix} 62 \\ 33 \end{pmatrix} 95$ |
| | North-East | {Hosp. Home | | 41 3 | 23 | | | 6 2 | | | I 3 | | 5 | 76 11 87 |
| | East | $\begin{cases} Hosp.\\ Home \end{cases}$ | | 22 4 | 17 2 | | | 3 | | 2 | 2 5 | | 3 | $\begin{pmatrix} 47\\16 \end{pmatrix} 63$ |
| | South | {Hosp. Home | | 7 1 | I I | | | 1 | | | | | | 9 11 20 |
| | East-Hunslet | {Hosp. Home | | 24 3 | 9 7 | | | 4 | | I | 1 7 | | 7 | 45 19 64 |
| | West-Hunslet | {Hosp. Home | | 28 6 | 14 1 | | | | | I | 6 | | 2 | 45 13 58 |
| DS. | Holbeck | {Hosp, Home | | 20 | 5 | | | | | | I 6 | | | 26 41 |
| WARDS | Mill Hill | ∫ Hosp. | | 43 | _56 | | | I | | | 2 | | | 12 10 |
| 1 | West | {Home ∫Hosp. | | 12 | 3 | | | | | | | | 2 | 26 26 |
| | North-West | (Home ∫Hosp. | | 2 | 2 14 | I | | I | | | | | 1 | |
| | Brunswick | {Home ∫Hosp. | | 13 | 3 16 | | | 2 | | 2 | 4 | | | 11 40 |
| | | Home (Hosp. | | 5 | 2 | | | | | | 3 | | | 10/ 44 |
| | New Wortley | Home | | 16 | 2 | I | | | | | 4 | | | 6 14 |
| | Arinney & Wordey | {Home ∫Hosp. | | 2 | 8 | | | | | | 3 | | 4 | $30 \\ 13$ 43 |
| | Bramley | Home | | 29 11 | 15 | | | I | | I | 7 | | I | $\begin{pmatrix} 46 \\ 22 \end{pmatrix} 68$ |
| | Headingley | Hosp. Home | | 26 13 | 18 15 | I | | 2 3 | | | 1 12 | | 2 | $49 \\ 44 $ 93 |
| | | (11 | | | .0. | | | | | | | | | |
| | Сіту | Hosp. Home | | 303 66 | 185 60 | 1 2 | | 27 14 | | 1 7 | 10 94 | | 43 | 570 243 813 |
| | | Cases | | 369 | 245 | 3 | | 41 | | 8 | 104 | | 43 | 813 |

One nurse, one maid, and one stable-boy contracted scarlet fever, and seven nurses, one maid, and one assistant medical officer, diphtheria. All were treated in hospital. These are not included in the 303 and 185 given above. Manston Hall is outside the City. In addition to the 570 cases hospitalled (out of the 813 reported during the quarter), one case of scarlet fever which had been reported in the previous quarter, was also taken to hospital.

TABLE C

0.1.

N

Table shewing deaths recorded in the City of Leeds during the fifty-two weeks ended 1st January, 1910, classified according to cause, age, and the registration sub-districts to which the patients belonged. Deaths in institutions allocated

| | Annual rate | pop. | 0,00 0,16 0,002 0,002 0,000 0,000 | 0'22 0'17 0'13 | | . : | | 10,0 50,0 | £0,0 | 10 ,02 | 0'02 | 0,03 | 10,0 | 0.03 0.03 |
|---------|--|------------------|--|----------------------|-----------------------------------|-------|--------------------|---|----------------|--|--------------------|---------------------------|--|------------------|
| | ý | All ages. | 12 0 1 : 4 0 1 1 2 0 1 : | 104 83 61 | | | : | 9 6 | 13 | 19 | 00 | 51 15 | 3 | 1° % % |
| | LOTAL mortality in City. | over 5 | ::mp#\$; | 8 ^{, 2} 2 | : 0 | : | | 61 M | 11 | 10 | 3 | 15 2 | 3 | 13 0 : 0 |
| | E | under 5 | : " 12 % : : : : | 81 34 | | | : | 8 : | 61 | ° : | 5 | 64 : | : " | * : œ : |
| ths | ders ing in y. | over 5 | :::::::: | ::* | :: | | : | : 9 | : | : : | : | :: | : : | : : : 8 |
| Deaths | of outsiders occurring in City. | under 5 | :::::::: | ::: | :: | : | : | н : | | : : | : | :: | : : | :::: |
| -puo | pe. 9 | over 5 | :::::::: | • : : | :: | : | : | :: | : | : : | : | :: | : : | :::* |
| Osmond- | thorpe. 339 | under 5 | :::::::: | ::: | :: | : | : | : : | : | : : | : | :: | : : | :::: |
| | Chapeltown. 47,270 | over 5 | :::*:*: | | : * | : | | : : | I | : « | : | :: | ; • | :::3 |
| | Chapelto 47,270 | under 5 | ::-::: | 9 Q | : " | : | : | : : | : | • : | : | m ; | ; * | :: ": |
| | Bramley. 19,547 | over 5 | ::::::::::::::::::::::::::::::::::::::: | ۰° : : | : * | : | - | : : | : | : * | : | :: | : : | ei : : 5 |
| - | Brai | under 5 | ::::::: | == 00 | : * | 1 | : | : : | : | : : | : | :: | : : | :: ** : |
| | Kirkstall. 51,635 | over 5 | ::::*: | 00 ; 00 | : " | 4 | : | | 1 | н | ~ | :: | :: | : " : # |
| | Kirk 51, | under 5 | ::** :::: | 1 | : " | - 4.4 | : | : : | : | : : | : | e4 : | : : | :: " |
| | Wortley. 68,099 | over 5 | ::::: * : | 0 = w | : * | | : | ۰ : | : | a m | : | | - 0 | 4 - : 5 |
| | Wor 68, | under 5 | ::: • • • : : | ; eo m | : 9 | : | : | : : | | : : | : | 17 | : : | :: " |
| | Holbeck. 37,320 | over 5 | :::::* | r : a | : " | : | : | : : | 01 | : * | : | : " | : * | · : : 5 |
| _ | Hol 37 | under 5 | ::2:::: | : ^* | : 0 | : | : | : : | : | : : | H | ¹⁰ : | : : | н : ^с |
| | Hunslet. 79,943 | over 5 | ::==::::::::::::::::::::::::::::::::::: | : * | :: | : | : | : : | CN | H 10 | : | : * | : " | m : :@ |
| | 10H | under 5 | : " 8 : : : : | · = 00 | : 8 | : | : | • : | : | - : | - | : : | :: | :::: |
| | South E. 35,370 | over 5 | ::*::* | 14 : 1 1 | :: | : | : | : : | : | ° : | : | : " | : ** | :::; |
| | Sout 35, | under 5 | :==:::: | :00 H | £1 | : | : | : : | : | : : | : | *: | : : | :: •• |
| DS. | West. 85,785 | over 5 | :: + ® 8 5~ ; | 8 : * | : * | : | : | : : | 4 | 4 M | : | : " | ۰ : | е н : 70 |
| LEEDS. | W. | under 5 | ::°:::: | : 5 8 | : 14 14 | : | : | 9 : | | : : | 6 | * : | : : | :: " |
| | North. 58,704 | over 5 | : : : 1% : 60 ; | 6 = 9 | : " | : | : | • : | I | : " | : | H # | H 61 | :8 |
| | N0 58, | under 5 | | * 10 s | : 5 | : | : | * : | 1 | : : | : | ø ; | : : | ::•: |
| | TOWNSHIPS, &c | Under and over 5 | : | | Cholera (English) Diarrhœa, &c | Ague | Zoogenous diseases | Syphilis Gonorrhœa Stricture of urethra | Erysipelas (3) | Frangederna (6) Septicærnia (5) Phiebitis (3) Puerperal fever | Parasitic diseases | Starvation, &c Alcoholism | Rheumatic fever Acute and Sub-acute) rheumatism | Rheumatism |

| ſ | - | 0 | 1 | 1 | | | 1 | | 1 |
|-------|------------------------|-----------------------|------------------|--|---|---|------------------------------------|---|---|
| | Annual | rate per 1,000 | .dod | 0,110 0,002 0,008 0,008 0,008 0,008 0,100 | 0'51 0'11 0'64 | 0,70 0'20 0'25 0'25 0'25 0'25 0'25 0'25 0'2 | 60,0 | 0,035 0,04 0,03 0,03 0,03 | 0,02 0,02 0,02 0,02 0,02 0,02 0,02 |
| | . 6 | | all ages. | 52 548 37 105 105 105 105 | 245 54 310 | 336 336 72 72 15 12 30 30 | 16 | 264 6 5 17 17 48 | 10 2055 322 81 81 81 81 |
| | TOTAL | City. | over 5 | z 537 537 537 537 537 537 537 537 537 537 | 310 : : | 334 356 71 71 71 71 71 71 71 71 71 71 71 71 71 | 10 | 264 6 386 386 17 4 4 4 8 4 8 | 5 61 259 188 188 188 188 188 |
| | H | | under 5 | 12 4 7 1 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 245 54 | а 6 : н : н 6 и н | 9 | :: ": ":: | 5 4 172 63 63 |
| | Deaths of outsiders | occurring in City. | over 5 | ; H :00 0 0 ; : 0 | : : * | NO :: : : : : : 10 | 5 | *:*:::: | : : : 0 : 00 : : m |
| | Deat | occur | under 5 | | : " : | | I | | |
| | | Osmond- thorpe. | over 5 | ::::::: | : : : | ∾::∺ . :::: : | : | :::::: | :::*::::: |
| | | Osmond thorpe. | under 5 | | : : : | ::::::::: | : | | |
| | | Chapeltown. | over 5 | :::∯≈⊳:⊨∞ | : : 5 | орени стана стана и с | : | 8 : 98 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : | 1: 12 0 38: : : |
| | | Chape | under 5 | H 01 : 01 01 00 : : : : | °° 6 : | : M : : : : P H : | н | :::::: | |
| | | Bramley. | over 5 | ; m ; F a m ; n 4 | 3 : : | м +н м н н ; ; п | н | 17 16 1 1 1 1 1 | : : : 8 a 4 : H a |
| | | Brai | under 5 | ::::¤ ∺ ::: | 3 4 : | | : | | : N : O P M : ; ; ; |
| | | Kirkstall. | over 5 | : a + 2 a 4 : a co | : : E | щ. о + и + ; ; м | : | 1 9 8 1 9 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 | ::+ 6∞ 4 : 0 10 |
| | | Kirk | under 5 | 0100 : H H 4 : : : : | ¥ % : | : **: : : : : : : : : : : : : : : : : : | : | :::::: | H : : 00 8 0 : : H |
| | | Wortley. | 5 5 | н 2 : 20 н : 67 н | 37 : : | 4+00 N W : : W | * | ф: 0°а : но | a : :8 4 1 H H P |
| | | Wo | under 5 | 1 m H u : 4 : : : | 38 + : | : . : : : : : : : : : : : : : : : : : : | I | :::::: | 5 : 3 2 9 4 : 3 |
| | | Holbeck. | 5 5 | :::®+*:+* | : : M | ф. 40 р : н : : m | : | 37 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 | ч :: 1 ³ 39 14 14 |
| | | Ho | under 5 | ►юнн:п::: | . n 3 | : : : : : | : | ::::*:: | : : " H N 00 : : H |
| | | Hunslet. | r over 5 | : 4 : 6 H P : N N | : : 4 | 6 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | н | 6 H 2 2 30 | 53 11 10 |
| | | Ηu | under 5 | 8 8 8 6 9 6 ; ; ; | ę : | 1 2 : : : : : : : : : : : : : : : : : : | H | 117111 | на :00 2 2 2 1 1 |
| | | South E. | over 5 | ; ф.н. 10 (с. м . ; н. 10) | : : 8 | 00040 : w : : w | : | N : 0 0 H 0.0 | 37 37 55 1 H |
| | | Sou | under 5 | vo ≉ ≈ : : : : | 80 N : | :":::+° | н | ::::: | :::0.4%0 :: |
| | LEEDS. | West. | s over | : * : ⁸ | : : 89 | 67 111 13 3 3 3 3 13 13 13 13 13 13 14 | : | 24:05 14 + 4 4 | : : : : : : : : : : : : : : : : : : : |
| | LE | M | under 5 | :, o w H & Q : : : : | 47 13 | н ^с : : : : : : : : : : : : : : : : : : : | : | :::::: | : : : : : : : : : : : : : : : : : : : |
| | | North. | r over 5 | : m : 00 0 10 : m H | : : 8 | | I | 4 0 00 H H 0 4 | и : :000 н н 100 |
| | | N :: |) under 5 | + m : + 0 m : : : | : 5 5 | • : 5: : : : º: | 1 | ::**:::: | : : : : : : : : : : : : : : : : : : : |
| C. 2. | | TOWNSHIPS, &c | Under and over 5 | Tabes mesenterica Tub. meningitis Hydrocephalus Phthisis Tub. peritonitis Other tuberculous Scrofula Anæmia | Premature birth Malformations and atelectasis (13) Old age | Brain disease Meningitis Apoplexy Gen. paralysis Insanity Epilepsy Convulsions Laryngismus stridulus Other diseases of nervous system | Dis. of organs of special sense | Endocarditis, &c. Pericarditis Heart disease Angina pectoris Syncope Aneurism Other circulatory | Laryngitis Croup (membranous) Croup (undefined) Bronchitis Broncho-pneumonia Pleuro-pneumonia Pleurisy. |
| | - | | | | | | | | |

TABLE C (continued).

| | Annual | rate Der v coo | pop. | 20,0 20,0 20,0 20,0 20,0 20,0 20,0 20,0 | 0,0 | 0,26 0,18 0,01 0,02 | 20,0 | 01,0 | 10,0 10,0 | 0.53 | 0.05 0.25 0.05 | : | 14"21 | : | : |
|--------------|------------------------|-----------------------|------------------|--|-------|-------------------------------|--------------------------------|------------|---|-----------------|---|---|--------|-------|-----------|
| | | | all ages. | 2 4 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 78 | 124 88 6 12 | 32 | 46 | 20 | 257 | 22 66 120 20 24 | : | 6,854 | | 14'2 |
| | TOTAL | in City. | over 5 | . : * * * * * * * * * * * * * * * * * * | 63 | 114 118 118 6 112 | 32 | 29 | 100 | 195 | 22 16 19 | : | 4,823 | 6,854 | ٤, 11 |
| | | | under 5 | a 45 a 2 a 2 a 2 a 4 5 a | 15 | 9 : : : | : | 17 | ы ; ю | 62 | 5 5 5 5 | : | 2,031 | | 36'2 |
| | Deaths of outsiders | occurring in City. | over 5 | ::::::::::::::::::::::: | 50 I | In m : H | 00 | 64 | : :: | 13 | [m : : m + | : | 181 | 194 | : |
| | Deat | occurring City. | under 5 | *::::::::: | I : | :::: | : | : | : :: | ° ; | ::=:= | : | 13 | - | |
| | | Osmond- thorpe. | over 5 | | : : : | :::: | : | : | : :: | ۰ : | ::::: | : | 10 | IO | 5.62 |
| | | | under 5 | | : : | :::: | : | : | : : : | :: | ::::: | : | : | | 50 |
| | | Chapeltown. | over 5 | ::***:**:* | 9 | 15 10 12 2 | - | - | * :: | •• ; | : : : * ** | : | 114 | 534 | £.11 |
| | | Chape | under 5 | : = a = a : : : : : : : : | - : | • : : : | : | 3 | - :: | *: | : ** * : : | : | 123 | | H |
| | | Bramley. | over 5 | ::: * : * :::: * 0 | • | r*:: | : | ~ | : :: | 9: | + : : = + | : | 215 | 278 | 14'3 |
| | | Brai | under 5 | | : : | * : : : | : | - | : :: | - : | ::**:: | : | 63 | | 14 |
| ued). | | Kirkstall. | over 5 | :: N/OHN :H :: MM | : : | 0.0 ; H | 04 | 8 | °° :: | 1 : | * : : : : | : | 392 | 525 | 10'2 |
| (continued). | | Kirk | under 5 | :"::":::::: | - : | :::: | : | | : : = | · ": | : * юнн | : | 133 | | 10 |
| 0 | | Wortley. | over 5 | : : : ^W = 0 = = : : * : | 4 0 | 00 t~ ; # | 61 | 00 | CH CH : | is : | 01 H ; 01 GI | : | 594 | 845 | 12'5 |
| TABLE | | Woi | under 5 | нфна <u>5</u> ::н:::н | eo : | ° : : : | : | * | : : : | • : | : 0.0 : 0 | : | 251 | 60 | 13 |
| TA | | Holbeck. | over 5 | :::*::*::* | 4 0 | ∞ ∿ ∺ : | н | 64 | : :: | ⁶⁰ : | N : : H M | : | 354 | 544 | 14.6 |
| | | Hol | under 5 | : ° : : ° * : : : : : : : : | - : | :::: | : | 64 | • :: | w ; | : 10 0 : : | : | 190 | | 1 |
| 1. | | Hunslet. | 5 5 | ; ; ⊨ œ ⋈ m ; * ; ; m m | : 04 | 14 10 10 | 5 | - | 2 I I | °? : | *::* | : | 684 | 1,073 | 13.5 |
| | | Ηu | under 5 | : 0, H H Q H : : : N : : | CI | m : : : | : | - | : :: | ¥ : | : 9 % : : | : | 389 | H | I |
| | | South E. | r over 5 | : : : N M M ; H H ; N ; | ~ : | N 10 ; + | m | a | m :: | 53 : | N ⊨ ; H N | : | 485 | 752 | 21'3 |
| | | Sou | under 5 | :vo:nd::::::: | : 2: | 84 : : : | : | * | : :: | 9: | : = = : : | : | 267 | | 61 |
| | LEEDS. | West. | r over 5 | :::::::::::::::::::::::::::::::::::::: | 15 | 25 1 : 22 | - | 0 | м нн | £ : | то : : то н | : | 918 | 1,230 | +,+1 |
| | LE | M | under 5 | : m + o g : : : : + + : | m : | :::: | : | 6 | : :* | ۰: | :: 3 3 : : | : | 312 | - | н |
| | | North. | r over 5 | : : : : · · · · · · · · · · · · · · · · | 9 1 | ð e s : | m | 9 | + :: | 10 | ∺::º : | : | 579 | 869 | 14'9 |
| | | | under 5 | | m : | *::: | : | : | : :: | 1 : | : r : | : | 290 | | - |
| C. 3. | | TOWNSHIPS, &c | Under and over 5 | Stomatitis Stomatitis Dentition Dentition Tonsilitis, &c. Tonsilitis, &c. Entertits (Gastro 44) Hernia Fistula Peritonitis Ascitis Ascitis Dis. of liver | ess | s lisease uria inary | Dis. of generative) Organs | Childbirth | Joints (2), arthritis (12) J Ulcer: Phlegmon (0) Skin disease | Injury | Mortification Debility Marasmus, Atrophy Turnour | | over 5 | Total | per annum |

NOTES TO TABLE C.

This table is printed for the first time in the report for 1892. In it the causes of death are more detailed than in the other tables. They are classified as in Table A, part 2, according as the deaths were those of persons under or over the age of five. All the deaths which occurred in the following public institutions : the Infirmary, the Women and Children's Hospital, the Borough Fever and Small-pox Hospitals, the Leeds, Hunslet, Holbeck, Bramley Workhouses, and the Home for Consumptives at Armley (the latter for the first time in 1905), have been classified under the districts to which the patients belonged. The 194 deaths of persons who belonged to no district in the city have been separated in two columns by themselves, as deaths of outsiders; these deaths are, however, included in the total mortality of the city. As far as possible, the order of the Registrar-General has been followed in the arrangement of this table. The horizontal lines correspond with the groups in the Registrar-General's annual report.

Septicamia includes deaths from pyæmia (3), phlebitis (3), phagedæna (0), septicæmia (not puerperal) (6). Parasitic diseases include thrush (5). Starvation includes purpura hæmorrhagica (4), scurvy (1), privation and want of breast milk (3), malnutrition (9), and inanition (34 deaths). Rheumatic fever in reports previous to 1892 had only the deaths ascribed in those terms to this disease by the medical attendant. Deaths from acute and sub-acute rheumatism had previously been classed under "rheumatism." A separate line has been given, both in Table C and Table A, to prevent confusion and enable comparison. "Rheumatism" includes chronic rheumatism and disease simply described as "rheumatism" (see Report, 1893, page 144). Anæmia includes chlorosis (2), hæmophilia (0), but not leucocythemia; deaths from the latter have been referred to diseases of the ductless glands. In malformations are included cyanosis (0), patent foramen ovale (1), spina bifida (7), atelectasis (13), imperforate anus (2), cleft palate (1), harelip (2), and (28) other congenital defects.

Brain disease includes deaths registered from such causes as cerebral congestion, cerebral hoemorrhage, and softening of the brain. Meningitis includes diseases classified as meningitis (64), and spinal (1) meningitis, but not meningitis said to be tuberculous, lepto meningitis (27), and basal meningitis (7). Apoplexy includes all apoplexies not otherwise defined. Paralysis includes hemiplegia, paraplegia, and "paralysis." General paralysis (7) is included under insanity, and does not include deaths from "softening of the brain." Convulsions includes diseases so certified, and deaths (1) due to "fits." Fits of apoplexy, &c., come under other headings. We have tried, as far as possible, to keep to the old headings.

Endocarditis, &c., includes valvular disease of the heart. "Heart disease" includes such diseases as hypertrophy, atrophy, fatty degeneration, weak heart, cardiac disease or degeneration and "disease of the heart." Angina pectoris includes only those deaths in which the symptom but no disease is stated. Aneurism includes all the aneurisms so stated. Other diseases of the circulatory system includes atheroma. Other respiratory diseases includes asthma (20), emphysema (20), empyzema (18), pulmonary congestion (9), "lung disease" (0), and others (14). Tonsillitis, &c. includes pharyngitis (1), parotiditis (1). Diseases of the stomach includes dyspepsia, hoematemesis, gastritis. Disease of liver includes hepatitis (1). Diseases of the bowels includes melcena (0), ulcer of intestines, obstruction of bowels, strangulation not due to hernia, intussusception, appendicitis. Kidney disease (16), and uramia (4). Albuminuria includes only deaths in which the symptom without any pathological cause was registered. Diseases of the urinary system includes calculus, hoematuria, cystitis and other diseases of the bladder. Disease of the generative organs includes uterine disease (3), ovarian disease (6), and "other diseases" of the generative organs, male (19), female (4). Childbirth includes all the accidents of parturition, except puerperal fever.

Diseases of the bones and joints includes disease of the spinal column, but not, of course, such diseases as spinal sclerosis, which are now referred to disease of the nervous system. A comparison of mortality previous to 1890 is difficult, as the term spinal disease was used to include both diseases of the spinal column and of the spinal marrow. Abscess includes cellulitis (6), carbuncle (2). Injury includes deaths from accident or negligence, homicide, misadventure, suicide, and execution.

TABLE D, Part 1.--Shewing death-rates from certain causes for the years 1890 to 1909.

| Influenza and diseases of the air-passages other than consumption. | 5.62 | 11.9 | 4.56 | 4.60 | 3.64 | 4.34 | 4.02 | 3.90 | 3.41 | 3.72 | 4.19 | 3:46 | 3.52 | 3.09 | 3.21 | 3.07 | 2.70 | 3.15 | 3.15 | 3.08 | |
|---|---------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|---------------|---------------|--|
| Phthisis. | 99.1 | 62.1 | 1.42 | 02.1 | 1:49 | 55.I | 05.1 | 1.44 | 1.39 | 14.1 | 141 | 1.4.1 | 18.1 | 7271 | 1.40 | 1.23 | 1.23 | 62.1 | 1.28 | 1.14 | |
| Croup (mem- branous and undefined) | 60.0 | 80.0 | 0.13 | 0.18 | 21.0 | 0.12 | 60.0 | 01.0 | 0.12 | 0.12 | 90.0 | 20.0 | 50.0 | 0.03 | 50.0 | 0.03 | 50.0 | 10.0 | 10.0 | 0.02 | ed. |
| All seven. | 2.39 | 2.4I | 2.18 | 3.55 | 86.1 | 2.65 | 2.27 | 2.79 | 3.10 | 2.73 | 2.93 | 3.14 | 2.00 | 1.74 | 2.27 | 09.I | 2.23 | 67.1 | 55.1 | 08.0 | recalculate |
| Diarrhœa. | 86.0 | 98.0 | 01.1 | 09.I | 0.45 | 85.I | 69.0 | 85.1 | 1.24 | 96.0 | 60.1 | 1.47 | 19.0 | 0.62 | 10.I | 0.80 | 26.0 | 0.41 | 04.0 | 0.23 | Rates from 1890 to 1000 not recalculated |
| "Fever." | 0.30 | 0.20 | 21.0 | 0.30 | 0.14 | 0.22 | 12.0 | 0.21 | 0.23 | 21.0 | 0.20 | 61.0 | 0.18 | 0.13 | I I.O | 0.12 | 11.0 | 90.0 | 50.0 | 60.0 | rom 1840 t |
| Whooping cough. | 0.50 | 0.41 | 0.42 | 0.44 | 0.34 | 0.29 | 09.0 | 0.24 | 0.39 | 0.38 | 0.39 | 0.33 | 0.46 | 0.27 | 0.46 | 0.27 | 0.32 | 0.34 | 0.29 | 21.0 | Rates f |
| Diph- theria. | 20.0 | 0.04 | 80.0 | 0.15 | 0.15 | 01.0 | 01.0 | 0.13 | 0.49 | 12.0 | 0.55 | 0.38 | 81.0 | 0.14 | 60.0 | 80.0 | 91.0 | 0.14 | 01.0 | 0.13 | D, part 2. |
| Scarlatina. | 0.28 | 0.18 | 0.20 | 80.0 | 0.13 | 0.13 | 0.18 | 0.23 | 0.29 | 51.0 | 0.12 | 61.0 | o'i 3 | 0.25 | 0.13 | 60.0 | 20.0 | 0.12 | 0.03 | 0.02 | to table D, |
| | 0.27 | 12.0 | 0.20 | 06.0 | 0.75 | 0.35 | 0.48 | 0.40 | 0.45 | 0.37 | 0.58 | 0.58 | 0.43 | 0.28 | 22.0 | 0.24 | 09.0 | 0.22 | 0.37 | 91.0 | See note to |
| Small-pox. Measles. | 00.0 | 00.0 | 0.02 | 80.0 | 10.0 | : | 00.0 | : | 00.0 | | 00.0 | | 10.0 | 50.0 | 00.0 | 10.0 | | | : | | |
| | 1890(53 wks.) | 1891 (52 wks.) | 1892 (52 wks.) | 1893 (52 wks.) | 1894(52 wks.) | 1895 (52 wks.) | 1896(53 wks.) | 1897 (52 wks.) | 1898 (52 wks.) | 1899 (52 wks.) | 1900(52 wks.) | 1901 (52 wks.) | 1902 (53 wks.) | 1903 (52 wks.) | 1904 (52 wks.) | 1905 (52 wks.) | 1906(52 wks.) | 1907 (52 wks.) | 1908(53 wks.) | 1909(52 wks.) | |

TABLE D, Part 2.

For whole District.

| - | Population | Birtl | 35. | Deaths one year | under of age. | | s at all Total. | | Deaths | Deaths | | s at all net. |
|------------------------------------|--|---------|--------|--------------------|--|--------|--------------------|--------------|---|---|--------|------------------|
| Year. | estimated to middle of each year. | Number. | Rate.* | Number | Rate per1,000 births regis- tered, | Number | Rate.* | in Public | of non- resid'nts regis- tered in district. | of resid'nts regis- tered beyond district. | Number | Rate.* |
| I | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | II | 12 | 13 |
| +1890 | 363,018 | 12,336 | 33*5 | 2,128 | 173 | 8,370 | 22.7 | 819 | 132 | No return | 8,238 | 22.3 |
| 1891 | 369,034 | 12,538 | 34.1 | 2,216 | 177 | 8,429 | 22.9 | 869 | 144 | do. | 8,285 | 22.5 |
| 1892 | 375,081 | 12,546 | 33.6 | 2,114 | 168 | 7,403 | 19.8 | 789 | 129 | do, | 7,274 | 19.2 |
| 1893 | 381,157 | 12,348 | 32.2 | 2,542 | 206 | 8,512 | 22.4 | 874 | 147 | 24 | 8,365 | 22.0 |
| 1894 | 387,259 | 12,502 | 32.4 | 1,945 | 156 | 6,935 | 18.0 | 772 | 142 | 7 | 6,793 | 17.6 |
| 1895 | 393,387 | 12,478 | 31.8 | 2,384 | 191 | 8,101 | 20.7 | 882 | 167 | No return | 7,934 | 20'2 |
| +1896 | 399,535 | 12,573 | 31.0 | 2,120 | 169 | 7,682 | 18.9 | 908 | 161 | 8 | 7,521 | 18.2 |
| 1897 | 405,716 | 12,912 | 31.9 | 2,454 | 190 | 8,148 | 20.2 | 881 | 175 | I | 7,973 | 19.7 |
| 1898 | 411,895 | 12,971 | 31.6 | 2,372 | 183 | 7,996 | 19.2 | 940 | 142 | 9 | 7,854 | 19.1 |
| 1899 | 418,101 | 12,939 | 31.1 | 2,222 | 172 | 8,105 | 19.5 | 1,005 | 181 | 26 | 7,924 | 19.0 |
| 1900 | 424,322 | 13,091 | 31.0 | 2,397 | 183 | 8,619 | 20.4 | 1,084 | 184 | 90 | 8,525 | 20'2 |
| 1901 | 430,575 | 12,898 | 30.1 | 2,429 | 188 | 8,283 | 19.3 | 1,176 | 171 | 92 | 8,204 | 19.1 |
| +1902 | 437,036 | 13,245 | 29.8 | 2,113 | 160 | 7,814 | 17.6 | 1,154 | 211 | 96 | 7,699 | 17'3 |
| 1903 | 443,559 | 12,996 | 29'4 | 1,992 | 153 | 7,334 | 16.9 | 1,094 | 184 | 113 | 7,263 | 16.4 |
| 1904 | 450,142 | 12,561 | 28.0 | 2,207 | 176 | 8,096 | 18.0 | 1,185 | 173 | 116 | 8,039 | 17.9 |
| 1905 | 456,787 | 12,337 | 27.1 | 1,875 | 152 | 7,124 | 15.6 | 1,225 | 178 | 102 | 7,047 | 15.2 |
| 1906 | 463,495 | 12,093 | 26.2 | 1,837 | 152 | 7,405 | 16.0 | 1,271 | 183 | 128 | 7,350 | 15.9 |
| 1907 | 470,268 | 11,678 | 24'9 | 1,533 | 131 | 7,227 | 15.4 | 1,301 | 188 | 128 | 7,167 | 15.3 |
| † 1908 | 477,107 | 12,007 | 24.8 | 1,654 | 138 | 7,505 | 15.2 | 1,371 | 169 | 124 | 7,430 | 15.3 |
| Averages for years 1899-1908 | | 12,585 | 28.1 | 2,026 | 161 | 7,751 | 17.3 | 1,187 | 185 | 102 | 7,665 | 17.1 |
| 1909 | 484,012 | 11,002 | 22.8 | 1,350 | 123 | 6,854 | 14'2 | 1,403 | 194 | 146 | 6,806 | 14'1 |

* Rates calculated per 1,000 of estimated population. The populations given in column 2 for the 11 years, 1890 to 1900, are those estimated by the method of interpolation from the census figures for 1881, 1891 and 1901. The rest are those of the Registrar-General.

The deaths included in column 7 of this table are the whole of those registered during the year as having actually occurred within the City or of Leeds persons in the fever hospital at Seacroft or the Hunslet workhouse at Rothwell. The deaths included in column 12 are the numbers in column 7, corrected by the subtraction of the numbers in column 10 and the addition of the numbers in column 11. Column 11 is, however, incomplete in some of the years.

By the term "Non-residents" is meant persons brought into the district on account of illness, and dying in some public institution, and paupers from townships outside the City dying at the Workhouse; and by the term "Residents" is meant persons who have died outside Leeds in some public institution, other than our own fever hospitals, and inmates of the County Asylums from the City townships.

† 53 week years, the others 52.

TABLE E.

VITAL STATISTICS FOR 1909.

The following Births and Deaths were recorded in the several Sub-Registration Districts of the City of Leeds during the fifty-two weeks ended 1st January, 1910. The figures in italics after the Births and Deaths give the proportion per annum per 1,000 of the estimated population.

| Districts. | Births. | Birth Rate. | Deaths. | Death All causes. | Rate. 7 Zymotics. |
|--------------------|------------|----------------|---------|----------------------|----------------------|
| vi (North | 1,461 | 24.97 | 869 | 14.85 | 0.97 |
| West South-East | 1,871 | 21.88 | 1,230 | 14:39 | 0.66 |
| South-East | 1,132 | 32.11 | 752 | 21.33 | 1.28 |
| Hunslet | 1,861 | 23:36 | 1,073 | 13.47 | I'23 |
| Holbeck | 1,004 | 26.99 | 544 | 14:63 | 1.05 |
| Wortley | 1,356 | 19.98 | 845 | 12.45 | 0.55 |
| Kirkstall | 944 | 18.34 | 525 | 10.20 | 0.52 |
| Bramley | 405 | 20.79 | 278 | 14:27 | 0.51 |
| Chapeltown | 952 | 20.21 | 534 | 11:34 | 0.42 |
| Osmondthorpe | 16 | 47:36 | IO | 29.60 | |
| Outsiders | | | 194 | | |
| Totals | 11,002 | 22.81 | 6,854 | 14.21 | 0.81 |

Considered as occurring in the Municipal Wards, the foregoing Deaths are classed as follows :---

| Wards. | Deaths | . Death | Wards. | Deaths. | Death |
|--------------|--------|---------|-------------|---------|-------|
| Eastern Div | ision. | Rate. | Western Div | vision. | Rate. |
| Central | 229 | 11.78 | Mill Hill | 99 | 15.10 |
| North | 578 | 11.78 | West | 422 | 18.02 |
| North-East | 567 | 17.02 | North West | 444 . | 12.46 |
| East | 637 | 20.75 | Brunswick | 302 | 13.05 |
| South | 273 | 20.53 | New Wortley | 260 | 14.23 |
| East Hunslet | 504 | 12.50 | Armley | 518 | 11.62 |
| West Hunslet | 477 | 14.04 | Bramley | 345 | 14.09 |
| Holbeck | 459 | 13.80 | Headingley | 546 | 10.32 |

In both these tables deaths occurring in public institutions have been referred to the districts to which the patients belonged. The births in workhouses are included in those of the districts in which these institutions are situated. There were one hundred and seven deaths at Manston Hospital during this year.

E. 2.

The following Births and Deaths were recorded in the several Sub-Registration Districts of the City of Leeds during the thirteen weeks ended 3rd April, 1909. The figures in italics after the Births and Deaths give the proportion per annum per 1,000 of the estimated population.

| Districts. | Births. | Birth Rate. | Deaths. | Death All causes. | Rate. 7 Zymotics. |
|--------------------|-----------|----------------|---------|----------------------|----------------------|
| ن (North | 415 | 28.4 | 273 | 18.7 | 0.8 |
| West South-East | 472 | 22'I | 383 | 17.9 | 0.7 |
| South-East | 317 | 36.0 | 226 | 25.6 | I'I |
| Hunslet | 467 | 23.4 | 317 | 15.9 | I.I |
| Holbeck | 248 | 26.7 | 185 | 19.9 | I'5 |
| Wortley | 330 | 19.4 | 244 | 14.4 | 0.6 |
| Kirkstall | 254 | 19.7 | 165 | 12.8 | 1.0 |
| Bramley | 98 | 20'1 | 91 | 18.7 | 0.8 |
| Chapeltown | 246 | 20.9 | 180 | 15.3 | 0.4 |
| Osmondthorpe | 4 | 47.4 | 2 | 23.7 | |
| Outsiders | | | 52 | | |
| Totals | 2,851 | 23.6 | 2,118 | 17.6 | 0.0 |

Considered as occurring in the Municipal Wards, the foregoing Deaths are classed as follows:--

| Wards. | Deatl | ns. Death | Wards. | Deaths. | Death |
|--------------|--------|--------------|-------------|---------|-------|
| Eastern Div | ision. | Rate. | Western Div | ision. | Rate. |
| Central | 6 | 9 14:2 | Mill Hill | 29 | 17.7 |
| North | 194 | 1 15.8 | West | 121 | 20.7 |
| North-East | 180 | 21.6 | North-West | 141 | 15.8 |
| East | 19 | 25.7 | Brunswick | 96 | 10.0 |
| South | 7: | 3 22.0 | New Wortley | 76 | 15.6 |
| East Hunslet | 13 | 1 13.6 | Armley | 149 | 13.4 |
| West Hunslet | 15. | 5 18.2 | Bramley | 110 | 180 |
| Holbeck | 16 | 1 19.4 | Headingley | 178 | 135 |

In both these tables deaths occurring in public institutions have been referred to the districts to which the patients belonged. The births in workhouses are included in those of the districts in which these institutions are situated. There were thirty-four deaths at Manston Hospital during this quarter.

E. 3.

The following Births and Deaths were recorded in the several Sub-Registration Districts of the City of Leeds during the thirteen weeks ended 3rd July, 1909. The figures in italics after the Births and Deaths give the proportion per annum per 1,000 of the estimated population.

| Districts. | Districts. | | Birth Rate. | Deaths. | Death Rate. All causes. 7 Zymotics. | | |
|--------------------|------------|-------|----------------|---------|--|-----|--|
| w (North | | 358 | 24.5 | 202 | 13.8 | 0.9 | |
| West South-East | | 479 | 22.4 | 307 | 14.4 | 0.5 | |
| South-East | | 260 | 29.5 | 167 | 190 | 1.0 | |
| Hunslet | | 472 | 23.7 | 271 | 13.6 | 07 | |
| Holbeck | | 263 | 28.3 | 127 | 13.7 | 0.0 | |
| Wortley | | 370 | 21.8 | 216 | 127 | 0.4 | |
| Kirkstall | | 259 | 20°I | 108 | 8.4 | 0.2 | |
| Bramley | | 122 | 25'1 | 57 | 117 | 0.2 | |
| Chapeltown | | 237 | 20°I | 116 | 9.8 | 0.4 | |
| Osmondthorpe | | 6 | 71.0 | 3 | 35.5 | | |
| Outsiders | | | | 49 | | | |
| Totals | | 2,826 | 23.4 | 1,623 | 13.5 | 0.6 | |

Considered as occurring in the Municipal Wards, the foregoing Deaths are classed as follows:--

| Wards. Deaths. Eastern Division. | | Wards. Deaths. Death | | Deaths. | Death |
|-------------------------------------|----|----------------------|-------------|------------|-------|
| | | Rate. | Western Div | ision. | Rate. |
| Central | 5 | I 10.5 | Mill Hill | 26 | 15.9 |
| North | 14 | 0 11.4 | West | 107 | 18.3 |
| North-East | 12 | 3 14.8 | North-West | ···· I I 2 | 12.6 |
| East | 13 | 7 17.9 | Brunswick | 70 | 12'1 |
| South | 8 | 0 24.1 | New Wortley | 64 | 14.0 |
| East Hunslet | 12 | I 12.0 | Armley | 140 | 12.6 |
| West Hunslet | 12 | 0 14.1 | Bramley | 69 | 11.3 |
| Holbeck | 10 | 2 12.3 | Headingley | 112 | 8.5 |

In both these tables deaths occurring in public institutions have been referred to the districts to which the patients belonged. The births in workhouses are included in those of the districts in which these institutions are situated. There were twenty-eight deaths at Manston Hospital during this quarter.

E. 4.

The following Births and Deaths were recorded in the several Sub-Registration Districts of the City of Leeds during the thirteen weeks ended 2nd October, 1909. The figures in italics after the Births and Deaths give the proportion per annum per 1,000 of the estimated population.

| Districts. | Births. | Birth Rate. | Deaths. | Death Rate. All causes. 7 Zymotics. | | | |
|--------------------|---------|----------------|---------|--|------|-----|--|
| vi (North | | 374 | 25.6 | 185 | 12.6 | 1.4 | |
| West South-East | | 487 | 22.8 | 233 | 10.9 | 0.7 | |
| South-East | | 295 | 33.5 | 173 | 19.6 | 2.2 | |
| Hunslet | | 458 | 23.0 | 230 | 11.5 | 2.1 | |
| Holbeck | | 260 | 28.0 | 109 | 11.7 | I'I | |
| Wortley | | 349 | 20.6 | 173 | 10.2 | 0.5 | |
| Kirkstall | | 236 | 18.3 | 118 | 9.2 | 0.7 | |
| Bramley | | 98 | 20°I | 61 | 12.5 | 0.2 | |
| Chapeltown | | 255 | 21.7 | 121 | 10.3 | 0.8 | |
| Osmondthorpe | | 2 | 23.7 | 2 | 23.7 | | |
| Outsiders | | | | 47 | | | |
| Totals | | 2,814 | 23:3 | 1,452 | 12.0 | I'I | |

Considered as occurring in the Municipal Wards, the foregoing Deaths are classed as follows:--

| Wards. Deaths. Eastern Division. | | Death | Wards. | 1 | Deaths. | Death |
|-------------------------------------|-----|-------|-------------|-------------|---------|-------|
| | | Rate. | Western Div | n Division. | | |
| Central | 60 | 12.3 | Mill Hill | | 16 | 9.8 |
| North | 120 | 9.8 | West | | 89 | 15.2 |
| North-East | 117 | 14.1 | North-West | | 82 | 9.2 |
| East | 142 | 18.5 | Brunswick | | 58 | 10.0 |
| South | 65 | 19.5 | New Wortley | | 62 | 13.6 |
| East Hunslet | 119 | 11.8 | Armley | | 96 | 8.6 |
| West Hunslet | 92 | 10.8 | Bramley | | 76 | 12.4 |
| Holbeck | 90 | 10.8 | Headingley | | 121 | 9.2 |

In both these tables deaths occurring in public institutions have been referred to the districts to which the patients belonged. The births in workhouses are included in those of the districts in which these institutions are situated. There were seventeen deaths at Manston Hospital during this quarter.

E. 5.

The following Births and Deaths were recorded in the several Sub-Registration Districts of the City of Leeds during the thirteen weeks ended 1st January, 1910. The figures in italics after the Births and Deaths give the proportion per annum per 1,000 of the estimated population.

| | Districts. | | Births. | Birth Rate. | Deaths. | Death All causes. | n Rate. 7 Zymotics |
|--------|--------------|--|---------|----------------|---------|----------------------|-----------------------|
| ŝ | North | | 314 | 21.5 | 209 | 14:3 | 0.8 |
| LEEDS. | West | | 433 | 20.3 | 307 | 14.4 | 0.7 |
| LE | South-East | | 260 | 29.5 | 186 | 21.1 | 0.8 |
| | Hunslet | | 464 | 23.3 | 255 | 12.8 | I'2 |
| | Holbeck | | 233 | 25.1 | 123 | 13.2 | 0.8 |
| | Wortley | | 307 | 18.1 | 212 | 12.5 | 0.7 |
| | Kirkstall | | 195 | 15.2 | 134 | 10.4 | 0.2 |
| 1 | Bramley | | 87 | 17.9 | 69 | 14.2 | 0.8 |
| (| Chapeltown | | 214 | 18.2 | 117 | 9.9 | 0.1 |
| (| Osmondthorpe | | 4 | 47.4 | 3 | 35.5 | |
| | Outsiders | | | | 46 | | |
| | Totals | | 2,511 | 20.8 | 1,661 | 13.8 | 0.7 |

Considered as occurring in the Municipal Wards, the foregoing Deaths are classed as follows:--

| Wards. Deaths. Eastern Division. | | hs. Death | Wards. | | Deaths. | Death |
|-------------------------------------|----|--------------|-------------|--------|---------|-------|
| | | Rate. | Western Div | ision. | | Rate. |
| Central | 4 | 9 10.1 | Mill Hill | | 28 | 17.1 |
| North | 12 | 4 10'I | West | | 105 | 17.9 |
| North-East | 14 | 7 17.7 | North-West | | 109 | 12.2 |
| East | 16 | 1 21.0 | Brunswick | | 78 | 13.5 |
| South | 5 | 5 16.5 | New Wortley | | 58 | 12.7 |
| East Hunslet | 12 | 7 12.6 | Armley | | 133 | 11.9 |
| West Hunslet | 11 | 0 13.0 | Bramley | | 90 | 147 |
| Holbeck | 10 | 6 12.7 | Headingley | | 135 | 10.2 |

In both these tables deaths occurring in public institutions have been referred to the districts to which the patients belonged. The births in workhouses are included in those of the districts in which these institutions are situated. There were twenty-eight deaths at Manston Hospital during this quarter.

E. 6.

The following Births and Deaths were recorded in the several Sub-Registration Districts of the City of Leeds during the thirteen weeks ended 2nd April, 1910. The figures in italics after the Births and Deaths give the proportion per annum per 1,000 of the estimated population.

| Districts. | | Births. Birth Rate. | | Deaths. | Death Rate. All causes. 7 Zymotics. | | | |
|--------------------|--|------------------------|------|---------|--|-----|--|--|
| vi (North | | 345 | 23.6 | 214 | 14.6 | 0.4 | | |
| West South-East | | 513 | 23.9 | 307 | 14:3 | 0.5 | | |
| South-East | | 278 | 31.4 | 203 | 22.9 | 1.0 | | |
| Hunslet | | 448 _ | 22°I | 251 | 12.4 | 0.8 | | |
| Holbeck | | 277 | 29.2 | 134 | 14.1 | 0.4 | | |
| Wortley | | 325 | 18.8 | 224 | 13.0 | I'2 | | |
| Kirkstall | | 241 | 18.3 | 142 | 10.8 | 0.8 | | |
| Bramley | | 93 | 18.8 | 67 | 13.6 | | | |
| Chapeltown | | 242 | 19.7 | 154 | 12.6 | 0.0 | | |
| Osmondthorpe | | 3 | 36·I | I | 12.0 | | | |
| Outsiders | | | | 60 | | | | |
| Totals | | 2,765 | 22.6 | 1,757 | 144 | 0.7 | | |

Considered as occurring in the Municipal Wards, the foregoing Deaths are classed as follows:--

| Wards. Deaths. Eastern Division. | | Death | Wards. | | Deaths. | Death | |
|-------------------------------------|--|-------|-------------|-------------|---------|-------|------|
| | | Rate. | Western Div | ision. | Rate. | | |
| Central | | 68 | 14.1 | Mill Hill | | 23 | 143 |
| North | | 157 | 12.5 | West | | 101 | 17:3 |
| North-East | | 139 | 16.4 | North-West | | 109 | 12.1 |
| East | | 162 | 20.9 | Brunswick | | 86 | 14.8 |
| South | | 71 | 21.7 | New Wortley | | 67 | 14.7 |
| East Hunslet | | 122 | 11.8 | Armley | | 142 | 12.4 |
| West Hunslet | | III | 12.8 | Bramley | | 82 | 13.2 |
| Holbeck | | 110 | 13.0 | Headingley | | 147 | 10.0 |

In both these tables deaths occurring in public institutions have been referred to the districts to which the patients belonged. The births in workhouses are included in those of the districts in which these institutions are situated. There were twenty-two deaths at Manston Hospital during this quarter.

TABLE F. (1).

Shewing Births, Deaths, from all and certain causes, Home Patients of the Dispensary, admissions to the Fever Hospitals, and some of the Meteorological conditions and the Death-rates from certain causes in Leeds : with the Birth and Death-rates from all causes in the 76 large English towns for each of the thirteen weeks ended 2nd January, 1909.

| | _ | | 0.0000 | | | | | | a jan | | DEC | - | ED | | | |
|--|--|---|--|---|---|--|--|--|---|--|--|---|---|---|---|--|
| | | - (| OCTO | BER | | N | OVE | MBEI | | | DEC | CEME | SER. | | ¥ vi | |
| 1908. | | Oct. 10th. | Oct. 17th. | Oct. 24th. | Oct. 31st. | Nov. 7th. | Nov. 14th. | Nov. 21st. | Nov. 28th. | Dec. 5th. | Dec. 12th. | Dec. 19th. | Dec. 26th. | Jan. 2nd. | TOTALS OR AVERAGES. | YEAR. |
| Total Births Total Deaths | 12 | 263 117 | 222 163 | 196 128 | 209 139 | 201 115 | 198 146 | 221 145 | 201 118 | 184 160 | 221 158 | 238 146 | 164 120 | 236 156 | 2,754 1,811 | 12,007 7,505 |
| Under I year I to 2 years 2 to 5 years 5 to 60 years 60 yrs. and upwards | 34567 | 47 7 5 31 27 | 53 9 9 59 33 | 26 19 10 39 34 | 41 14 9 39 36 | 31 9 4 43 28 | 28 14 7 55 42 | 27 12 11 48 47 | 20 2 9 50 37 | 31 7 68 48 | 17 10 6 63 62 | 24 5 5 48 64 | 14 12 6 50 38 | 30 8 11 59 48 | 389 128 98 652 544 | 1,654 560 409 2,741 2,141 |
| Deaths : Small-pox Measles Scarlet Fever *Diphtheria Whooping-cough Typhus Fever Typhoid Fever Other or doubtful Diarrhœa or Dysent. | 8 9 10 11 12 13 14 15 16 | 2 7 | 4 2 3 14 | 3 1 3 | 5 1 5 | I 5 | 3 1 2 | 6 1 2 1 2 | 4 1 1 | I I | ··· 3 ··· ··· ··· | 3 1 3 3 | 2 4 4 | 5 4 2 3 2 | 42 1 16 17 7 41 | 181 14 50 140 25 341 |
| All seven | 17 | 9 | 24 | 7 | 11 | 6 | 7 | 12 | 6 | 3 | 3 | 10 | IO | 16 | 124 | 751 |
| Phthisis Dis. of Circul. System | 21 | 24 5 3 5 13 14 | 30 18 16 3 13 25 | 25 7 13 3 11 16 | 29 6 10 7 16 23 | 27 6 15 4 10 13 | 38 2 11 14 4 8 21 | 32 1 11 17 7 17 22 | 29 11 11 11 10 17 | 43 1 15 15 12 15 36 | 38 1 13 20 6 21 26 | 32 I I0 8 3 I0 22 | 22 15 12 5 11 30 | 30 9 12 11 26 34 | 399 6 137 166 70 181 299 | 2 1,527 121 621 707 310 694 1,368 |
| Dispensary: visits pd. | 27 | 237 | 296 | 288 | 299 | 267 | 323 | 344 | 326 | 270 | 309 | 296 | 273 | 221 | 3,749 | 15,435 |
| Cases admitted to our own hospitals | 28 | 48 | 30 | 23 | 36 | 22 | 21 | 25 | 37 | 29 | 24 | 42 | 30 | 34 | 401 | 1,368 |
| Humidity Mn. of highest reading ,, lowest ,, ,, daily range Total rainfall (inches) Wind f Direction | 30 31 32 33 34 35 36 37 38 39 40 41 | 01.54 56.92 54.77 86.62 63.71 50.43 13.28 0.23 NE SE 1 28.8 | 59.85 56.15 53.92 86.00 60.86 50.29 10.57 0.08 NE I 24.3 | 58'46 49'77 47'62 85'00 54'71 45'43 9'28 0'57 E NE 2 21'4 | 58'92 51'77 50'31 90'08 56'00 43'29 12'71 0'36 NE SE I 22'9 | 60°15 48°31 46°92 90°00 51°71 43°29 8°42 0°02 SE NE I 22°0 | 56.77 44.69 43.00 87.62 50.86 38.43 12.43 0.65 SE 1 21.7 | 57'77 46'15 44'23 86'08 50'71 41'57 9'14 0'17 w 1 24'2 | 58.00 49.69 46.85 80.54 53.71 42.86 10.85 0.33 w 2 22.0 | 55.15 38.77 37.77 90.92 43.29 34.57 8.72 0.05 1 Fog 20.1 | 54'54 42'15 40'69 88'38 45'86 37'57 8'29 0'51 w I 24'2 | 55.69 44.31 43.08 90.54 47.71 40.14 7.57 0.62 sw I 26.0 | 54'25 43'50 42'17 89'33 45'57 39'43 6'14 0'03 E SE I 17'9 | 45.23 34.62 33.62 84.15 38.14 28.86 9.28 0.59 se I 25.8 | 56.66 46.70 45.01 87.32 50.99 41.24 9.75 4.21 1 23.2 | 29.90 58.63 51.31 47.68 77.79 56.08 43.49 12.59 22.34 I 24.8 |
| Death-rate (Leeds) Death-rate (76 towns) Birth-rate (76 towns) D.R.lung dis. (Leeds) | 43 44 | 12.8 26.2 | 26.7 | 25.5 | 15.3 | 27.6 | 25.9 | 15.9 15.6 24.3 | 12.9 15.6 24.4 | 17.5 15.6 23.1 | 24.6 | 16.0 15.3 24.8 | 13.1 12.9 18.5 | 17'1 18'2 25'0 | 15°2 14°9 24°9 | 15°5 14°9 27°0 |
| | 45 46 | 2.6 1.0 | 3'3 | 2.7 0.8 | 3.5 1.5 | 3.0 | 4'2 0'8 | 3.2 | 3.2 0.7 | 4'7 0'3 | 4.2 0.3 | 3.2 | 2'4 1'1 | 3°3 1°7 | 3'4 1'0 | 3.2 |

The Dispensary returns are furnished me by the kindness of the resident staff, and have regard to a week ended in each case a day earlier than that given in the heading.

The meteorological data are compiled from returns sent us by Mr. Crowther. They are uncorrected readings, made at 10 a.m. and 4 p.m. The humidity each week is the average of the humidities calculated on each of the thirteen observations of the wet and dry bulbs. On January 17th, 1906, the attached thermometer was removed into an inner room in which there was a fire.

* Includes membranous croup. Line 19 includes non-spasmodic croup not returned as membranous. † Line 20 includes line 21.

Shewing Births, Deaths, from all and certain causes, Home Patients of the Dispensary, admissions to the Fever Hospitals, and some of the Meteorological conditions and the Death-rates from certain causes in Leeds; with the Birth and Death-rates from all causes in the 76 large English towns for each of the thirteen weeks ended 3rd April, 1909.

| | | - | | | | | | | | | | | | | |
|---|--|--|--|--|--|---|--|---|---|--|--|---|---|---|---|
| | 1 | | IANU | ARY | | F | EBR | UARY | ¥ | | H 10 | | | | |
| 1909. | | Jan. 9th. | Jan. 16th. | Jan. 23rd. | Jan. 30th. | Feb. 6th. | Feb. 13th. | Feb. 20th. | Feb. 27th. | Mar. 6th. | Mar. 13th. | Mar. 20th. | Mar. 27th. | Apl. 3rd. | TOTALS OR AVERAGES, |
| Total Births Total Deaths | 12 | 210 152 | 217 150 | 222 139 | 186 180 | 218 156 | 200 157 | 249 143 | 192 147 | 200 178 | 212 196 | 230 174 | 251 189 | 264 157 | 2,851 2,118 |
| Under I year I to 2 years 2 to 5 years 5 to 60 years 60 yrs. and upwards | 4 | 29 10 5 60 48 | 34 17 6 54 45 | 12 8 8 63 48 | 26 10 6 77 61 | 27 8 10 53 58 | 20 6 13 72 46 | 21 3 9 54 56 | 23 3 5 67 49 | 23 5 6 79 65 | 34 7 7 73 75 | 33 7 13 65 56 | 23 13 6 65 82 | 23 13 10 60 51 | 328 104 104 842 740 |
| Typhus Fever Typhoid Fever Other or doubtful | 8 9 10 11 12 13 14 15 16 | 5 1 3 2 | 4 5 4 2 1 | 6 1 3 | I I I I | ··· I ··· 2 ··· 3 ··· 2 ··· | 1 5 4 1 | 3 1 2 | ···· ··· ··· ··· | ···· 2 3 ··· 1 ··· | I I I | I 5 I I | 5 1 1 | ··· I 3 ··· I | 25 4 27 24 14 9 |
| All seven | 17 | II | 16 | 10 | 4 | 8 | 13 | 6 | 2 | 6 | 6 | 8 | 7 | 6 | 103 |
| Cholera (English) Croup Dis. of Resp. System Influenza† Phthisis Dis. of Circul. System Violent Deaths Inquest cases Deaths in Pub. Inst. | 18 19 20 21 22 23 24 25 26 | 36 3 9 14 6 11 22 | 33 11 14 6 14 31 | 40 3 14 15 9 15 28 | 42 2 15 24 7 19 34 | 46 3 12 11 9 15 28 | 43 5 17 11 6 9 32 | 35 12 15 8 14 32 | 44 5 14 22 5 16 29 | 58 3 12 26 3 13 29 | 73 13 14 17 5 20 29 | 48 9 17 21 6 13 26 | 65 16 10 14 6 20 45 | 42 5 14 16 4 12 29 | 605 67 171 220 80 191 394 |
| Dispensary: visits pd. | | 307 | 301 | 284 | 320 | 301 | 301 | 303 | 341 | 363 | 366 | 375 | 279 | 351 | 4,192 |
| Cases admitted to our own hospitals | 28 | 25 | 27 | 39 | 26 | 32 | 26 | 41 | 35 | 26 | 20 | 25 | 35 | 29 | 386 |
| Dry bulb Wet bulb Humidity Mn. of highest reading ,, lowest ,, ,, daily range Total rainfall (inches) Wind {Direction Force 0-6 | 30 31 32 33 34 35 36 37 38 39 40 | 53'38 42'69 41'08 87'15 46'29 38'29 8'00 0'13 NWW 2 | 52.08 40.77 38.08 79.15 44.86 36.14 8.72 0.86 w 2 | 53'77 39'15 37'08 83'23 43'71 33'86 9'85 | 47 23 31 15 29 85 86 23 36 57 26 43 | 54 77 44 54 42 54 85 69 48 57 38 00 10 57 | 52.23 36.54 35.08 86.69 39.29 32.86 6.43 | 53'38 39'77 36'77 76'85 45'43 32'00 13'43 0'03 | 50'54 36'92 34'54 79'62 43'43 30'43 13'00 | 48.00 34.00 33.00 89.46 38.00 28.14 9.86 0.41 EWN I | 50.46 36.92 35.62 88.77 40.00 32.86 7.14 0.79 NB.NW 2 | 53.85 41.31 38.31 76.62 46.71 33.43 13.28 0.16 | 56.08 44.46 41.54 79.46 49.00 37.43 11.57 | 57.62 47.15 44.00 78.54 51.43 38.86 12.57 | 52°57 39°64 37°50 82°88 |
| Death-rate (Leeds) Death-rate (76 towns) Birth-rate (76 towns) | 42 43 44 | 16.4 | 16.2 | 15'0 15'7 | 19'4 | 16.8 | 16'9 17'5 | 15.4 18.1 28.3 | 15.8 | 19'2 21'3 | 21'I 22'I | 18·8 22·1 27·4 | 20'4 19'8 26'9 | 16.9 17.9 27.9 | 17.6 18.7 26.7 |
| D.R. lung dis. (Leeds) D.R. 7 Zymotics | 45 46 | 3.9 1.2 | 3.6 1.7 | 4°3 1°1 | 4°5 0°4 | 5°0 0'9 | 4.6 1.4 | 3.8 | 4'7 0'2 | 6·3 | 7.9 0.6 | 5°2 0'9 | 7.0 0.8 | 4°5 0°6 | 5°0 0°9 |

The Dispensary returns are furnished me by the kindness of the resident staff, and have regard to a week ended in each case a day earlier than that given in the heading.

The meteorological data are compiled from returns sent us by Mr. Crowther. They are uncorrected readings, made at 10 a.m. and 4 p.m. The humidity each week is the average of the humidities calculated on each of the thirteen observations of the wet and dry bulbs. On January 17th, 1906, the attached thermometer was removed into an inner room in which there was a fire.

* Includes membranous croup. Line 19 includes non-spasmodic croup not returned as membranous. † Line 20 includes line 21.

TABLE F. (3).

Shewing Births, Deaths, from all and certain causes, Home Patients of the Dispensary, admissions to the Fever Hospitals, and some of the Meteorological conditions and the Death-rates from certain causes in Leeds; with the Birth and Death-rates from all causes in the 76 large English towns for each of the thirteen weeks ended 3rd July, 1909.

| | | | - | RIL. | | | | AY. | July, | | | | | | |
|--|--|---|---|--|---|--|--|---|---|---|--|--|--|--|--|
| | | | 1 | | | | MI | | | | S. S. | | | | |
| 1909. | | Apl. 10th. | Apl. 17th. | Apl. 24th. | May 1st. | May 8th. | May 15th. | May 22nd. | May 29th. | June 5th. | June 12th. | June 19th. | June 26th. | July 3rd. | TOTALS OR AVERAGES, |
| Total Births Total Deaths | 12 | 234 132 | 207 164 | 228 145 | 232 111 | 244 141 | 189 122 | 226 117 | 197 133 | 178 131 | 235 96 | 226 102 | 194 120 | 236 109 | 2,826 1,623 |
| Under I year I to 2 years 2 to 5 years 5 to 60 years 60 yrs. and upwards | 34567 | 34 4 9 40 45 | 27 19 6 69 43 | 32 3 5 60 45 | 20 5 6 52 28 | 33 12 3 55 38 | 20 4 5 53 40 | 21 4 3 48 41 | 32 9 5 38 49 | 33 3 4 40 51 | 22 3 3 46 22 | 16 8 7 41 3 0 | 23 4 8 53 32 | 21 6 3 51 28 | 334 84 67 646 492 |
| Deaths : Small-pox Measles Scarlet Fever *Diphtheria Whooping-cough { Typhus Fever Typhoid Fever Other or doubtful Diarrhœa or Dysent. | 8 9 10 11 12 13 14 15 16 | ··· I ··· 32 ··· ·· ··· 3 | I 3 | 2 1 3 2 | 2 3 1 | 2 3 | I 2 | I | I I I | I 3 I 1 | 1 I I | I 3 2 | 1 3 | I I 2 | 13 13 15 23 2 7 6 |
| All seven | 17 | 9 | 5 | 9 | 7 | 6 | 3 | 2 | 3 | 6 | 4 | 6 | 4 | 4 | 68 |
| Cholera (English) Croup Dis. of Resp. System Influenza† Phthisis Dis. of Circul. System Violent Deaths Inquest cases Deaths in Pub. Inst. | 18 19 20 21 22 23 24 25 26 | 30 2 8 13 3 12 26 | 2 44 1 13 15 7 16 23 | 26 3 13 13 13 11 19 28 | 29 2 15 14 2 8 33 | 35 3 9 12 4 11 37 | I 27 2 6 15 2 9 33 | 23 11 14 4 10 31 | 24 8 22 5 14 27 | 21 14 13 5 13 35 | 17 13 11 4 8 14 | 14 6 17 1 4 20 | 22 18 11 5 8 31 | 18 1 9 15 4 12 29 | 330 14 143 185 57 144 367 |
| Dispensary: visits pd. | 27 | 224 | 217 | 259 | 298 | 318 | 308 | 313 | 316 | 269 | 307 | 299 | 344 | 291 | 3,763 |
| Cases admitted to our own hospitals | 28 | 29 | 30 | 33 | 31 | 40 | 38 | 50 | 40 | 41 | 36 | 45 | 51 | 52 | 516 |
| Dry bulb Wet bulb Humidity Mn. of highest reading ,, lowest ,, ,, daily range Total rainfall (inches) Wind {Direction Force 0-6 Amount of Cloud Birth-rate (Leeds) | 30 31 32 33 34 35 36 37 38 39 40 41 | 01'83 52'58 44'67 57'33 61'29 36'14 25'15 SE NW 2 25'2 | 01 30 51 92 46 31 66 62 57 43 42 29 15 14 0 43 W 3 22 3 | 03 15 53 92 48 15 66 92 60 14 43 00 17 14 1 35 SE 3 24 6 | 02 08 49 85 45 00 69 00 55 86 41 57 14 29 0 61 E W 3 25 0 | 03 15 58 92 49 62 52 69 63 71 39 71 24 00 0 08 E SE 3 26 3 | 01'54 51'77 45'62 63'69 50'43 40'71 15'72 0'14 W NE 2 20'4 | 01 54 59 46 51 15 59 31 64 71 43 00 21 71 0 45 w E 2 24 4 | 04.23 58.46 52.92 69.54 63.14 49.57 13.57 0.98 w 2 21.2 | 02 31 57 85 51 85 66 15 62 57 48 14 14 43 0 009 NE 2 19 2 | 62'92 56'69 50'00 62'62 61'57 45'00 16'57 0'07 NW 2 25'3 | 03 09 59 85 54 31 69 77 65 14 48 71 16 43 0 02 NR W 2 24 4 | 02 31 58 38 54 00 75 15 62 14 51 00 11 14 2 03 5W N 3 20 9 | 03'09 59'46 54'00 70'07 65'57 48'57 17'00 0'32 NE 2 25'4 | 02'01 56'11 49'84 65'34 61'52 44'42 17'10 6'57 2 23'4 |
| Death-rate (Leeds) Death-rate (76 towns) Birth-rate (76 towns) | 43 44 | 17'0 | 17.7 17.1 27.0 | | 14'5 | 15°2 14°1 28°5 | 13.2 13.7 26.1 | 12.6 14.7 26.5 | 13.9 25.5 | 14'1 12'3 22'6 | 10'3 12'6 28'5 | 11'0 12'3 27'4 | 12.9 12.1 23.9 | 11.8 11.8 27.2 | 13.5 13.9 26.6 |
| D.R. lung dis. (Leeds) D.R. 7 Zymotics ,, | 45 46 | 3.5 1.0 | 4'7 0'5 | 2.8 1.0 | 0.8 3.1 | 3.8 | 2.9 0.3 | 2.2 0.2 | 2.6 0.3 | 2°3 0°6 | 1.8 0.4 | 1.2 0.6 | 2'4 0'4 | 1.9 0.4 | 2.7 0.6 |

The Dispensary returns are furnished me by the kindness of the resident staff, and have regard to a week ended in each case a day earlier than that given in the heading.

The meteorological data are compiled from returns sent us by Mr. Crowther. They are uncorrected readings, made at 10 a.m. and 4 p.m. The humidity each week is the average of the humidities calculated on each of the thirteen observations of the wet and dry bulbs. On January 17th, 1906, the attached thermometer was removed into an inner room in which there was a fire.

* Includes membranous croup. Line 19 includes non-spasmodic croup not returned as membranous. † Line includes line 21.

TABLE F. (4).

Shewing Births, Deaths, from all and certain causes, Home Patients of the Dispensary, admissions to the Fever Hospitals, and some of the Meteorological conditions and the Death-rates from certain causes in Leeds : with the Birth and Death-rates from all causes in the 76 large English towns for each of the thirteen weeks ended 2nd October, 1909.

| | 1 | | JUL | Y. | | | AUGU | JST. | 1 | | SEPT | EMB | ER. | 1 | |
|--|--|--|--|---|--|--|---|---|---|--|---------------------------------|---|--|--|---|
| 1909. | | July roth. | July 17th. | July 24th. | July 31st. | Aug. 7th. | Aug. 14th. | Aug. 21st. | Aug. 28th. | Sep. 4th. | Sep. 11th. | Sep. 18th. | Sep. 25th. | Oct. 2nd. | TOTALS OR AVERAGES. |
| Total Births Total Deaths | 12 | 200 104 | 241 102 | 208 106 | 215 102 | 218 103 | 215 119 | 231 116 | 240 114 | 242 131 | 200 106 | 211 133 | 200 99 | 193 117 | 2,814 1,452 |
| Under 1 year 1 to 2 years 2 to 5 years 5 to 60 years 60 yrs. and upwards | 84567 | 22 14 1 31 36 | 19 8 7 40 28 | 32 7 6 38 23 | 24 4 5 39 30 | 19 7 2 46 29 | 26 9 11 44 29 | 33 6 8 45 24 | 45 7 4 32 26 | 41 6 8 34 42 | 32 8 2 36 28 | 42 8 5 52 26 | 30 4 4 32 29 | 20 7 5 52 33 | 385 95 68 521 383 |
| *Diphtheria | 8 9 10 11 12 13 14 15 16 | 2 | I I I I | 2 I 2 | 5 2 1 | I 2 I 2 I 2 | 6 2 2 | I I I S | 1 3 16 | 3 2 12 | 2 10 | ··· I ··· 3 ··· 7 | ···· ··· ··· ··· ··· ··· ··· ··· ··· | 2 I 2 I 2 | 21 3 11 22 6 72 |
| All seven Cholera (English) Croup Dis. of Resp. System Influenza† Phthisis Dis. of Circul.System Violent Deaths | 17 18 19 20 21 22 23 24 | 6 13 1 8 9 4 | 4 17 11 9 3 | 5 17 9 11 4 | 8 14 8 9 2 | 6 16 12 10 6 | 11 21 13 7 4 | 12 19 8 11 5 | 23 14 6 12 5 | 21 10 7 19 3 | 12 5 4 15 5 | 12 19 1 5 11 4 | 9 10 1 4 13 | 6 20 13 11 2 | 135 195 3 108 147 47 |
| Inquest cases Deaths in Pub. Inst. Dispensary: visits pd. | 25 26 27 | 11 19 258 | 7 30 307 | 11 18 232 | 2 18 245 | 10 21 254 | 11 22 233 | 10 24 242 | 8 22 247 | 3 8 26 239 | 12 24 218 | 14 29 238 | 5 17 258 | 6 22 254 | 115 292 3,225 |
| Cases admitted to our own hospitals | 28 | 48 | 66 | 41 | 32 | 49 | 33 | 30 | 42 | 37 | 52 | 60 | 40 | 68 | 598 |
| Total rainfall (inches) Wind {Direction Force 0-6 Amount of Cloud | 30 31 32 33 34 35 36 37 38 39 40 | 66 23 61 23 55 54 68 69 65 71 52 57 13 14 0 38 NW 2 | 65.23 62.46 56.85 69.77 66.71 53.14 13.57 0.69 w nw 3 | 65'31 62'38 56'23 66'77 66'14 53'43 12'71 0'18 w 4 | 63.85 59.69 55.23 75.00 65.00 52.71 12.29 1.30 NW W 3 | 66.00 65.77 58.38 64.08 70.57 51.86 18.71 0.92 NW I | 71 79 70 77 63 69 65 77 78 14 57 29 20 85 w 2 | 67.85 62.46 58.31 77.15 68.86 56.43 12.43 | 63.85 60.24 56.15 77.15 63.71 52.00 11.71 | 62.85 57.69 52.46 69.85 63.00 48.71 14.29 0.28 NW 3 | 55'77 51'54 74'31 | 61'23 55'23 52'77 84'31 61'29 48'71 12'58 | 62'31 56'08 53'08 81'69 61'57 48'29 13'28 | 61 '31 54 '92 52 '77 86 '38 58 '14 49 '71 8 '43 0 '62 | 64.65 60.36 55.62 73.92 65.33 51.68 13.65 |
| Birth-rate (Leeds) Death-rate (Leeds) Death-rate (76 towns) Birth-rate (76 towns) | 42 43 | 11.8 | 26.0 11.0 11.5 26.2 | 22°4 11°4 10°6 25°6 | 10.8 | 23.5 11.1 10.5 23.7 | 23°2 12°8 11°5 26°3 | 24.9 12.5 11.8 24.8 | 25'9 12'3 12'9 26'4 | 26°1 14°1 12°9 25°8 | 21.6 11.4 12.8 24.6 | 22.7 14.3 13.0 25.4 | 21.6 10.7 12.6 25.4 | 20.8 12.6 12.3 24.2 | 23.3 12.0 11.8 25.3 |
| D.R. lung dis. (Leeds) D.R. Diarrhœa , | | 1.4 0.2 | 1.8 | 1.8 0.2 | 0.1 0.1 | 1.7 0.2 | 2.3 0.2 | 2.0 0.9 | 1.2 1.2 | 1.3 1.1 | 0.2 1.1 | 2.0 0.8 | 1.1 0.0 | 2.2 0.2 | 1.6 0.6 |

The Dispensary returns are furnished me by the kindness of the resident staff, and have regard to a week ended in each case a day earlier than that given in the heading.

The meteorological data are compiled from returns sent us by Mr. Crowther. They are uncorrected readings made at 10 a.m. and 4 p.m. The humidity each week is the average of the humidities calculated on each of the thirteen observations of the wet and dry bulbs. On January 17th, 1906, the attached thermometer was removed into an inner room in which there was a fire.

* Includes membranous croup. Line 19 includes non-spasmodic croup not returned as membranous. † Line 19 includes line 21.

TABLE F. (5).

Shewing Births, Deaths, from all and certain causes, Home Patients of the Dispensary, admissions to the Fever Hospitals, and some of the Meteorological conditions and the Death-rates from certain causes in Leeds; with the Birth and Death-rates from all causes in the 76 large English towns for each of the thirteen weeks ended 1st January, 1910.

| | 1 | C | осто | BER. | 1 | NC | VEM | BER | . | | DEC | EMBI | ŝR. | | 1 | |
|---|---|---|--|--|---|--|--|---|---|--|--|---|--|--|--|--|
| 1909. | | Oct. 9th. | Oct. 16th. | Oct. 23rd. | Oct. 3oth. | Nov. 6th. | Nov. 13th. | Nov. 20th. | Nov. 27th. | Dec. 4th. | Dec. 11th. | Dec. 18th. | Dec. 25th. | Jan. 1st. | TOTALS OR AVERAGES. | YEAR. |
| Total Births Total Deaths | 12 | 209 123 | 204 107 | 200 107 | 177 106 | 207 109 | 207 126 | 209 119 | 193 139 | 183 147 | 186 152 | 202 133 | 126 130 | 208 163 | 2,511 1,661 | 11,002 6,854 |
| Under 1 year 1 to 2 years 2 to 5 years 5 to 60 years 60 yrs. and upwards | 34567 | 27 5 6 51 34 | 26 3 5 42 31 | 21 7 7 42 30 | 17 4 40 41 | 25 7 2 40 35 | 30 7 3 47 39 | 18 6 8 52 35 | 21 11 4 51 , 52 | 23 10 7 65 42 | 32 8 7 44 61 | 17 5 2 58 51 | 17 6 5 59 43 | 29 9 11 51 63 | 303 88 71 642 557 | 1,350 371 310 2,651 2,172 |
| Deaths : Small-pox Measles Scarlet Fever *Diphtheria Whooping-cough (Typhus Fever Typhoid Fever Other or doubtful Diarrhœa or Dysent. | 8 9 10 11 12 13 14 15 16 | I I 2 6 | ··· ··· ··· ··· ··· ··· | · · · · · · · · · · · · · · · · · · · | I I 2 2 2 | I I I 2 | ··· ··· ··· ··· ··· ··· ··· ··· | I 2 3 I | 3 1 1 | 3 2 1 | 2 3 | ··· 2 ·· 2 ·· 2 ·· ·· ·· | 3 1 2 | 2 I 3 | 19 3 12 14 13 23 | 78 12 65 83 2 40 110 |
| All seven | 17 | II | 5 | 6 | 8 | 6 | 5 | 8 | 5 | 6 | 5 | 6 | 6 | 7 | 84 | 390 |
| Dis. of Resp. System Influenza† Phthisis Dis. of Circul. System | 19 20 21 22 | 15 8 22 3 8 23 | 28 2 8 15 1 6 24 | 12 8 15 4 7 29 | 13 10 8 3 11 26 | 19 7 12 7 12 22 | 21 11 15 4 14 23 | 26 13 14 10 19 18 | 31 3 10 11 5 13 33 | I 45 2 13 10 6 20 29 | 47 6 3 18 8 18 24 | 25 4 10 20 9 16 27 | 29 1 15 10 4 14 37 | 45 2 10 21 8 25 35 | 2 356 20 126 191 72 183 350 | 5 1,486 104 548 743 256 633 1,403 |
| Dispensary: visits pd. | 27 | 213 | 185 | 153 | 175 | 206 | 249 | 248 | 274 | 280 | 296 | 312 | 258 | 205 | 3,054 | 14,234 |
| Cases admitted to our own hospitals | 28 | 68 | 64 | 84 | 68 | 86 | 56 | 56 | 52 | 72 | 60 | 64 | 51 | 51 | 832 | 2,322 |
| Barom. (inches) Attached Ther. °F Dry bulb Wet bulb Humidity Mn.ofhighestreading ,, lowest ,, ,, daily range Total raintall (inches) Wind {Direction Force o-6 nount of Cloud rth-rate (Leeds) ath-rate (Leeds) ath-rate (76 towns) th-rate (76 towns) | $\begin{array}{c} 30\\ 31\\ 32\\ 33\\ 34\\ 35\\ 36\\ 37\\ 38\\ 39\\ 40\\ \hline \\ 41\\ 42\\ 43\\ 44\\ \end{array}$ | 61.69 56.31 53.69 83.62 61.57 49.14 12.43 0.72 sw.nw 3 22.5 13.3 12.9 25.1 | 61 15 56 77 53 31 78 77 60 43 49 00 311 43 0 66 | 62 92 55 92 53 08 82 31 61 14 49 00 12 14 0 41 sw 3 21 6 | 50.08 43.31 39.62 73.38 47.86 37.00 10.86 0.00 NE NV 3 19.1 11.4 12.0 | 58'54 50'69 48'15 82'40 53'43 10'00 20'03 10'00 10 10 10 10 10 10 | 57.62 44.85 41.69 77.31 349.00 38.43 10.57 | 52'3) 38'8 36'77 82'8 43'4 32'7 10'72 | 52.54 540.54 737.94 579.69 579.69 544.7 133.80 210.8 20.0 | 4 53 9 4 42 8 2 40 8 9 84 40 1 45 86 5 38 20 5 7 55 2 1 43 sw 2 19 7 15 8 16 5 | 2 51 31 5 41 40 5 40 00 5 40 00 5 40 00 5 40 00 5 40 00 5 41 40 5 40 00 5 40 00 5 40 00 5 41 40 5 40 00 5 44 140 5 40 00 5 40 00 5 44 140 5 40 00 5 40 00 5 44 140 5 40 00 5 40 00 5 44 140 5 40 00 5 0 00 5 0 00 5 0 00 5 0 00 2 2 5 0 00 5 00 5 0 00 5 0 00 5 00000000 | 53.85 40.23 38.85 288.69 442.71 537.29 5.42 5.42 0.48 | 46.83 35.94 35.00 89.83 39.71 29.14 | 50.8 45.2 43.0 84.4 48.0 37.0 11.0 | 45.67 43.28 82.71 49.38 39.16 10.22 | 29.83 58.81 50.44 46.56 76.22 55.08 42.25 12.83 24.26 2 22.8 14.2 14.7 25.7 |
| .R.lung dis. (Leeds) D.R. 7 Zymotics ., | | | 3.0 0.5 | 1.3 0.6 | 1°4 0°9 | 2°0 0°6 | 2°3 0°5 | 2.8 0.9 | 3°3 0°5 | 4.9 | 5°1 0°5 | 2.7 0.6 | 3.1 3.1 | 4.9 0.8 | 3.0 | 3.1 0.8 |

The Dispensary returns are furnished me by the kindness of the resident staff, and have regard to a week ended n each case a day earlier than that given in the heading.

The meteorological data are compiled from returns sent us by Mr. Crowther. They are uncorrected readings, made at to a.m. and 4 p.m. The humidity each week is the average of the humidities calculated on each of the thirteen observations of the wet and dry bulbs. On January 17th, 1906, the attached thermometer was removed into in inner room in which there was a fire.

* Includes membranous croup. Line 19 includes non-spasmodic croup not returned as membranous. † Line 20 ludes line 21.

TABLE F. (6).

Shewing Births, Deaths, from all and certain causes, Home Patients of the Dispensary, admissions to the Fever Hospitals, and some of the Meteorological conditions and the Death-rates from certain causes in Leeds ; with the Birth and Death-rates from all causes in the 76 large English towns for each of the thirteen weeks ended 2nd April, 1910.

| 1 | 1 | 1 | LANT | LADY | | 1 | EDD | | | | | | | | |
|--|---|---|---|---|---|--|---|---|---|---|--|--|---|---|--|
| | | | JANU | AKY | | 1 | EBR | UARY | ζ. | | a | | | | |
| 1910. | | Jan. 8th. | Jan. 15th. | Jan. 22nd. | Jan. 29th. | Feb. 5th. | Feb. 12th. | Feb. 19th. | Feb. 26th. | Mar. 5th. | Mar. 12th. | Mar. 19th. | Mar. 26th. | Apr. 2nd. | TOTALS OR AVERAGES, |
| Total Births Total Deaths | 1 2 | 238 147 | 201 134 | 208 143 | 165 147 | 210 142 | 216 144 | 225 119 | 229 135 | 243 141 | 213 119 | 201 128 | 217 125 | 199 133 | 2,765 1,757 |
| Under I year I to 2 years 2 to 5 years 5 to 60 years 60 yrs. and upwards | 84567 7 | 24 4 8 54 57 | 29 11 6 49 39 | 19 6 7 58 53 | 23 10 5 61 48 | 25 7 7 45 58 | 23 5 5 69 42 | 25 10 4 41 39 | 27 6 4 57 41 | 38 8 7 50 38 | 25 8 5 44 37 | 17 6 10 50 45 | 25 4 3 50 43 | 24 8 4 51 46 | 324 93 75 679 586 |
| Deaths : Small-pox Measles Scarlet Fever "Diphtheria Whooping-cough Typhoid Fever Other or doubtful Diarrhœa or Dysent. | 8 9 10 11 12 13 14 15 16 | 2 2 2 4 2 | I 4 2 4 | I 2 I 2 I | I I 3 4 | I 4 I I | 2 1 I | ··· ··· ··· ··· ··· ··· ··· ··· ··· ·· | I I I 2 I | I 3 2 I | ···· ··· ··· ··· ··· | 1 2 4 1 | ···· ··· ··· ··· | I I 2 I | 9 10 16 31 9 13 |
| All seven | 17 | 12 | 12 | 7 | 9 | 7 | 4 | 5 | 6 | 8 | 2 | 9 | I | 6 | 88 |
| Croup Dis. of Resp. System Influenza† Phthisis | 18 19 20 21 22 23 24 25 26 | 42 5 10 12 6 10 34 | 31 2 4 19 4 18 23 | 28 7 9 18 8 16 28 | 1 22 15 9 3 12 33 | 39 3 13 17 8 20 26 | 39 4 16 14 6 18 32 | 30 2 5 15 2 7 20 | 28 3 14 17 5 17 37 | 32 7 9 16 7 14 23 | I 31 2 5 12 7 15 28 | 27 1 9 20 3 14 22 | 27 2 7 13 6 12 23 | 35 14 7 15 23 | 2 411 39 124 196 72 188 352 |
| Dispensary: visits pd. | 27 | 203 | 244 | 214 | 222 | 221 | 250 | 259 | 215 | 223 | 185 | 229 | 253 | 146 | 2,864 |
| Cases admitted to our own hospitals | 28 | 50 | 36 | 46 | 44 | 47 | 54 | 47 | 61 | 33 | 30 | 59 | 52 | 43 | 602 |
| Wet bulb Humidity Mn. of highest reading ,, lowest ,, ,, daily range Total rainiall (inches) Wind {Direction Force 0-6 Amount of Cloud Birth-rate (Leeds) Death-rate (Leeds) Death-rate (To towns) Birth-rate (76 towns) | 30 31 32 334 35 36 37 389 40 41 42 43 | 55.62 45.08 43.31 86.77 48.71 40.14 8.57 0.10 sw.w 2 25.3 15.6 14.8 27.0 | 52 '62 41 '69 39 '69 84 '62 45 '57 36 '43 9 '14 1 '21 sw w 3 21 '4 14 '2 14 '9 24 '8 | 51'54 38'00 36'00 82'00 42'71 33'71 9'00 0'46 w NW 3 22'1 15.2 14'8 23'6 | 45 77 31 08 30 31 90 85 35 43 25 86 9 57 1 07 NW 2 17 5 15 6 16 3 22 7 | 50.15 39.69 38.23 87.77 42.86 33.86 9.00 0.31 5w se 2 22.3 15.1 17.0 26.3 | 54'38 43'00 40'85 83'92 47'14 39'00 8'14 0'28 8'14 0'28 8'NW 2 23'0 15'3 16'6 26'3 | 55'15 45'31 42'31 78'85 49'14 39'71 9'43 0'43 0'43 0'43 w sw 4 23'9 12'6 15'8 25'9 | 53'38 40'09 38'08 80'54 40'43 35'43 11'00 0'87 w 2 24'3 14'7 25'1 | 54'54 44'46 41'77 80'77 49'14 36'14 13'00 0'07 se sw 2 25'8 15'0 14'5 27'1 | 57'54 46'38 44'00 83'46 51'57 40'14 11'43 0'33 W NE 2 22'6 12'6 13'6 25'9 | 57.31 43.85 40.00 72.85 48.00 36.29 11.71 0.07 NW 3 21.4 13.6 13.5 26.2 | 57 '33 48 '42 44 '58 74 '67 54 '29 40 '43 13 '86 NW 2 23 '1 13 '3 13 '9 24 '2 | 57 '92 47 '38 42 '77 69 '77 55 '29 34 '57 20 '72 0 '02 NE 1 21 '1 14 '1 14 '1 14 '4 25 '5 | 54'08 42'66 40'12 81'33 47'41 36'29 11'12 5'22 2 2 2'6 14'4 14'8 25'4 |
| D.R. lung dis. (Leeds) D.R. 7 Zymotics ., | 45 46 | 4°5 1°3 | 1.3 3.3 | 3.0 | 2.3 1.0 | 4'I 0'7 | 4'I 0'4 | 3.2 | 3.0 | 3'4 0'9 | 3.3 | 2.9 1.c | 2'9 0'1 | 3.7 0.6 | 3°4 0°7 |

The Dispensary returns are furnished me by the kindness of the resident staff, and have regard to a week ended in each case a day earlier than that given in the heading.

The meteorological data are compiled from returns sent us by Mr. Crowther. They are uncorrected readings, made at to a.m. and 4 p.m. The humidity each week is the average of the humidities calculated on each of the thirteen observations of the wet and dry bulbs. On January 17th, 1906, the attached thermometer was removed into an inner room in which there was a fire.

* Includes membranous croup. Line 19 includes non-spasmodic croup not returned as membranous. † Line 20 includes line 21.

HEALTH OF LEEDS.

SUPPLEMENTARY REPORT

ON THE

MUNICIPAL YEAR, 1909-1910.

Municipal year

SANITARY WORK AND HEALTH IN LEEDS IN THE MUNICIPAL YEAR 1909-1910.

The most complete statement on the work of the Sanitary Department is that contained in the Medical Officer of Health's "Annual." This deals with the health conditions, and the work done during what is practically the "calendar year." Another report is issued by the Committee, dealing, but less fully, with the health conditions and work done during the financial year. This report deals with the 12 months ended with the first quarter of the calendar year and has been issued to the whole Council. These two reports may be referred to in regard to statistical figures as the "annual" report, and "financial year" report. The present report will deal in some respects statistically with the municipal year, consisting of the 52 weeks ended on the 1st of October, 1910. All death rates in any of these three reports which refer to any shorter time than a year are calculated to correspond with a complete solar year.

Death rate in municipal year 1909-1910.—During the municipal year 1909-1910, the death rate in Leeds, calculated in this way for the whole year upon the deaths returned during the 52 weeks ended Saturday, October 1st, was 13.6. These figures give the gross, crude death rate, and are based on returns which include all the deaths that occurred in the City, whether the person dying belonged to Leeds or not, and all the deaths that occurred in the Poor Law and Municipal Hospitals within the City, whether the persons dying previously belonged to the City or not, and include also the deaths of Leeds persons in the City Fever Hospitals and the Hunslet Workhouse, although these hospitals are outside the City.

The above rate of 13.6 therefore is increased by the deaths of a number of persons who did not in any way belong to Leeds. These crude returns are corrected by the Registrar-General so as to exclude certain deaths occurring in institutions within the City of persons not belonging to the City, and to include, though less completely, the deaths of certain Leeds persons occurring in public institutions outside Leeds, not under Leeds management.

October 1909 to October 1910.

The whole of this information cannot easily be obtained, except for the annual report. For that report some care is taken to secure the deaths of Leeds persons outside the City. Meantime, however, the Registrar-General's figures as published in his quarterly returns for the fourth quarter of 1909, and for the first and second quarters of 1910, and his weekly returns for the third quarter of 1910, have been added together, and a provisional death rate according to the Registrar-General's figures obtained for the municipal year. The rate thus obtained is 13'4, and is a little less than the figure already given, in which the Registrar-General's corrections have not been made. It is, however, still subject to further correction, when his quarterly report for the third quarter for 1910 sees the light. This matter of correction for outsiders as well as that of correction for age and sex is referred to in the Annual for 1909, p. 2.

In comparing the health of Leeds with that of the nine largest towns in the United Kingdom, it is convenient to use the Registrar-General's own figures, both in regard to population and regard to deaths. The position of Leeds amongst these nine large towns is that of third. The death rate in London calculated from the figures mentioned was 12.6, in Sheffield 13.0, Leeds as already said had a rate of 13.4. Close upon our heels came Birmingham with a rate of 13.5, Edinburgh had a rate for the same period of 14.1, Manchester and Glasgow followed with rates of 16.1 and 16.7, Liverpool and Dublin with death rates of 18.1 and 20.0. It may be well to add that all these returns are for a full year.

During the municipal year the health of Leeds has been, it will be seen from the figures, unusually good. There has been an entire absence of small-pox and typhus fever, diseases which have occasionally given us a great deal of trouble. Scarlet fever has been fairly prevalent, more so than during the corresponding period of 1908-1909. Diphtheria, on the other hand, although exciting a good deal of anxiety, has been less prevalent than during the preceding municipal year (1908-1909); and the death rate from diarrhœa, although not less than in the preceding

179

180

municipal year, has been, as for some years back, considerably less than it used to be.

Scarlet fever during 40 years.—In regard to scarlet fever it may be interesting to note that in a table given in the annual report for 1909 (Table 12a), it is shown that the death rate from this disease in the seventies was 1.11 per 1,000; in the eighties it fell to 0.68 per 1,000; in the nineties to 0.19 per 1,000; whilst in the ten years 1900-1909, the rate of mortality was only 0.11 per 1,000. There have, of course, been fluctuations of the death rate during these periods, but taking the ten-year periods there has been a steady improvement. One of these fluctuations accounts for a death rate in the municipal year 1909-1910 of 0.06, which though below the average rate of the ten calendar years 1900-1909 is slightly in excess of that for the municipal year 1908-1909 (0.02).

Death rate from diphtheritic disease in last 20 years.-In regard to diphtheria, similar figures are not available, principally because a change has occurred in the use of the term "diphtheria." In the seventies the name was seldom applied except to very severe cases where a membrane could be seen. In 1894 the Registrar-General included under the term "diphtheria" cases of membranous croup, and since that time the word "membranous croup" has been gradually disappearing from the death certificates in favour of the term "diphtheria." Previous to 1890 in Leeds, we have no statistics in regard to deaths from diphtheria, which would include the allied diseases croup and larvngitis, which used to cause the greatest fatality from diseases of the throat amongst young children, and whose deaths would now be usually assigned to diphtheria. In regard to the twenty years, 1890-1909, however, the deaths reported from these allied diseases have been carefully recorded, and notwithstanding the fact that diphtheria, so called, has apparently been more common and more fatal of late years, it is found when we take into account the other fatal throat affections, that while the death rate from the group in the earlier of the two decades (1890-1899) was 0.40, in the later (1900-1909) it had fallen to 0.25. The

Comparative position of Leeds.

fluctuations already referred to account for a death rate from diphtheria, croup, and laryngitis together, in the past municipal year (1909-1910) of 0[.]14, which is considerably less than the reduced rate in the decade of the calendar years 1900-1909.

Position of Leeds in comparison with the largest towns.— Although the death rate of 13.4 is the lowest death rate we have ever recorded in Leeds for a whole year since 1870, beyond which our figures do not go, we have lost the honourable position for this year of being nearest to London in regard to lowness of death-rate, Sheffield having a rate of 0.4 per thousand below our low death rate of 13.4; whilst Birmingham comes so close behind us (13.5) that a very slight alteration in the rectification of hospital cases might even place us fourth.

In considering in what way Sheffield and Birmingham have been able to come so close upon us in regard to healthiness during this year-and one of them actually to take precedence of us-I fear I must remind you that in both these towns-Sheffield and Birmingham-a greater amount of energy is being put into the personal house visitation by the women inspectors than it is possible for us with our limited staff to expect. Our women inspectors consist of the six originally recommended more than ten years ago by the Committee who considered this matter, with the occasional help of two probationers. Since that time the new work of the inspection of midwives has been thrown upon our small staff, and occupies a great deal of their time. The work of visiting houses where young children have died, and advising the mothers where children have been newly born, has necessarily had to be confined by us to a very small district of the town. It could with great advantage be extended to other parts of the town where the infant mortality is also high. But it is not merely very young life that is benefitted by the visits of our women inspectors. A higher standard of cleanliness is being gradually obtained in the district that they visit, which, although far from all that could be hoped for, is probably a distinct factor in improving the health of the town.

Work of women inspectors.

I find that, in Sheffield, instead of the eight women who are assisting us in this way, they have fifteen similarly qualified, and to this I am, to a great extent, inclined to attribute the fact that Sheffield has during the past twelve months outstripped us in the race for a low death rate. Sheffield is very nearly the same size as Leeds, although the estimated population even on its increased area is 12,000 below that with which the Registrar-General credits us, but they have practically double the number of women inspectors. This alteration has been made within the last two or three years.

Birmingham is a town considerably larger than Leeds, but they have in addition to fifteen health visitors, one superintendent of health visitors, one woman doctor who visits infants, as well as three other women inspectors specially charged with the care of workshops, the superintendance of midwives, and the dealing with tuberculous patients. In all, they have twenty women on their staff, against our eight.

House inspection.—During the municipal year 1909-1910, amongst other work done, 18,397 houses have been systematically examined, 15,780 of them from top to bottom as to number of inmates, available air space and ventilation, closet accommodation and arrangement for refuse disposal, drainage, etc., and 2,617 partially but systematically either as to inmates and their houses or as to drainage or as to other conditions of the premises. Other special examinations have also been made, and 19,667 nuisances have been removed in consequence of our work. In many cases the drains have been tested by the smell test, and this action has revealed the existence of 3,955 drainage defects apart from the obviously visible stopped drains which are more easily discovered.

Milk inspection.—Not only have a large number of samples of milk and other foods been submitted for chemical analysis to the City Analyst, but a very considerable number of samples of milk have been obtained from farmers within and without the City for the purpose of ascertaining their freedom from tuberculous infection. These have mostly been taken as they reach

Administrative work.

the City, and the Veterinary Assistant to the Medical Officer of Health has in consequence of information thus received paid 52 visits to 19 milk farms outside the City, and made 1,169 examinations of 458 cows in these farms. In this way 13 tuberculous cows, whose milk was being sent into Leeds, have been detected and removed from the milking herds.

Within the City itself a systematic examination of the cattle in the Leeds cowsheds has now been carried out for a good many years. Every farm is veterinarily inspected about four times a year, every cow being carefully examined to find out any disease of the udder which might communicate tubercle to the milk sold. For this purpose the Veterinary Assistant to the Medical Officer of Health has during the municipal year visited 578 milk farms or cowsheds and examined no fewer than 7,544 cows.

Every one of these cows even suspected of having tuberculosis of the udder has been at once removed from the milk herd, and, where any doubt has remained as to the exact nature of the disease in the cow, the farmer, where he has acted fairly by the public, has received compensation for any loss of milk where he has at the request of the Medical Officer refrained from sending that of a suspected cow for sale.

Cleansing.—Amongst the work done by the Scavenging Department during the municipal year was the cleansing of 446,146 streets and 247,151 gullies. The number of loads removed from the streets were 95,867. The average number of horses and men working daily during the year were respectively 105 and 364, exclusive of the large number of men employed during the snow period.

The number of cleansings of ashpits and bins amounted during the same municipal period to a total of 2,112,437; the number of loads removed was 184,226, of which 92,931 loads weighing 77,066 tons were consumed at the destructors. The work also included the cleansing of 12,253 pails, of which 7,854 were washed, and the cleansing by our own staff of 986,217 trough water-closets. The average number of horses per day employed in this work during the year has been 122.

