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COUNTY BOROUGH OF BURNLEY.

LOCAL SANITARY AUTHORITY.

LOCAL EDUCATION AUTHORITY.



REPORTS
OF THE
MEDICAL OFFICER
FOR THE YEAR
1928

I.B.A.H

I.B.A.H

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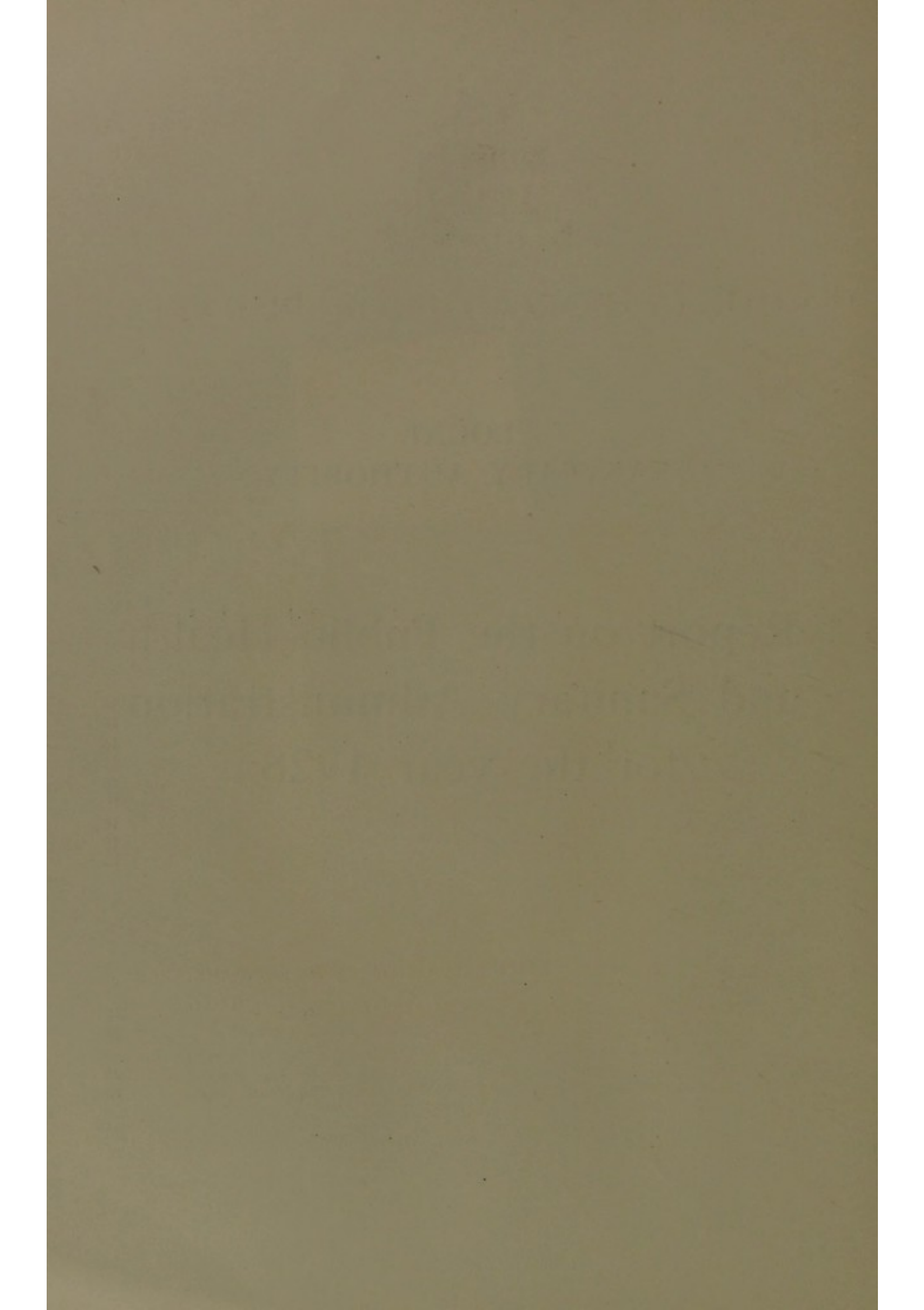
COUNTY BOROUGH OF BURNLEY.

LOCAL
SANITARY AUTHORITY.

Report on the Public Health
and Sanitary Administration
for the year 1928.

THOMAS HOLT, M.D., D.P.H.,

MEDICAL OFFICER OF HEALTH,
SCHOOL MEDICAL OFFICER,
MEDICAL SUPERINTENDENT, BURNLEY
JOINT HOSPITAL BOARD.



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Health and Maternity and Child Welfare Committee, 1928-29.

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|-------|--|
| *††ab | HIS WORSHIP THE MAYOR (MR. COUNCILLOR LEES). |
| *††ab | ALDERMAN CLEGG, J.P., Chairman. |
| *††ab | COUNCILLOR MUNRO, Vice-Chairman. |
| ††a | ALDERMAN HEATON, J.P. |
| „ | SINCLAIR, J.P., O.B.E. |
| *†b | „ WHEWELL. |
| *†ab | COUNCILLOR MRS. BROWN, J.P. |
| *†ab | „ CLARK. |
| „ | „ J. T. CLEGG. |
| †ab | „ DUXBURY. |
| „ | „ LYNCH. |
| *† | „ POLLARD. |
| *††ab | „ ROBINSON. |
| *ab | „ SAMPSON, J.P. |
| ab | „ TODD. |

FOR MATERNITY AND CHILD WELFARE BUSINESS ONLY.

Co-opted Member.

bMRS. U. A. COATES.

Advisory Members.

bMRS. J. F. HEAP.

bMRS. E. POPPLETON.

bMRS. W. H. WATSON.

*Standing Sub-Committee.

†Housing Sub-Committee.

‡Venereal Diseases Sub-Committee.

aTuberculosis Sub-Committee.

bMaternity and Child Welfare Sub-Committee.

Staff of the Public Health and Maternity and Child Welfare Departments, 1928.

Medical Officer of Health, Administrative Tuberculosis Officer, School Medical Officer and Medical Superintendent, Burnley Joint Hospital Board.

*THOMAS HOLT, M.D., D.P.H.

Tuberculosis Officer, Deputy Medical Officer of Health, and Resident Medical Officer, Burnley Joint Hospital Board—

*M. C. R. GRAHAME, M.B., CH.B., D.P.H., D.T.M.

Venereal Diseases Medical Officer and Director of the Public Health Laboratory—

*A. H. PRIESTLEY, M.B., CH.B.

Assistant Medical Officers of Health—

Maternity and Child Welfare—*ESSIE S. DUNN, B.A., B.A.O., M.B., CH.B. (Resigned June, 1928).

*ENID BAILE, L.R.C.P. & S., D.P.H. (Appt. July, 1928).
(Resident Medical Officer, Bank Hall Maternity and Children's Hospital).

School Medical Service—*ELIZABETH WHEATLEY, M.B., CH.B., D.P.H. (Resigned Nov., 1928).

Part-time Medical Officers—

*T. SNOWBALL, M.A., M.B., CH.B., Ophthalmic Surgeon and Nose and Throat Specialist (School Medical Service).

Dental Surgeon—

*ELIZABETH TIMPERLEY, L.D.S. (Resigned Sept., 1928).

*H. A. BOLTON, L.D.S. (Appointed Oct., 1928).

Veterinary and Meat Inspector—

J. KENYON, M.R.C.V.S.

Borough Analyst—

RAYMOND ROSS, F.I.C., F.C.S.

Chief Sanitary Inspector and Inspector under Food and Drugs Acts, etc.—

R. JUMP, Mem. R.S.I. (by exam.)†b

Inspector under the Housing Acts—

J. FIELD.†

Assistant Sanitary Inspectors—

H. ALIFFE.†b

H. CROSSLEY.†

E. ROBERTS, D.C.M.†

J. W. ALMOND.†

E. HARGREAVES.† (Appointed Nov., 1928)

F. SHUTTLEWORTH† (Appointed. Jan., 1928).

Superintendent Health Visitor—

MISS M. BURGESS.†‡§

Health Visitors—

MISS M. FERNIHOUGH.‡

*MRS. A. J. JONES (a)

*MISS L. R. FIRTH.

MISS L. G. MOORE.‡(c) (Apptd. Oct., 1928).

MISS S. HEAP.‡

MISS A. PRICE.‡

MISS A. HEYWOOD.‡

MRS. H. REEVES.‡

(Resigned Feb., 1928).

MISS S. JACKSON.‡ (Apptd. Jan, 1928).

Clerical Staff—

Chief Clerk—H. V. HARTLEY.†

Clerks—P. SHOESMITH (Resigned Oct., 1928), H. SIMPSON, W. BLACK.

MISSES D. FODEN, M. STUTTARD, E. WILKINSON, U. GORMAN, B. PINKNEY.

Bank Hall Maternity and Children's Hospital—**Matron**—*MISS G. M. NICOL.*‡**Visiting Obstetrician**—ALEXANDER CALLAM, D.S.O., M.D., F.R.C.S., Consultant
Obstetrician under the Puerperal Fever and Puerperal Pyrexia Regulations.

†Certified Sanitary Inspector.

§Maternity and Child Welfare Certificate.

bMeat and Other Food Certificate.

‡State Registered Nurse.

*Certificate of C.M.B.

aHealth Visitor's Certificate.

c do. do. R.S.I.

*A contribution to the salaries of these Officers is made from Exchequer Grants.

Summary of Statistics.

1.—GENERAL STATISTICS.

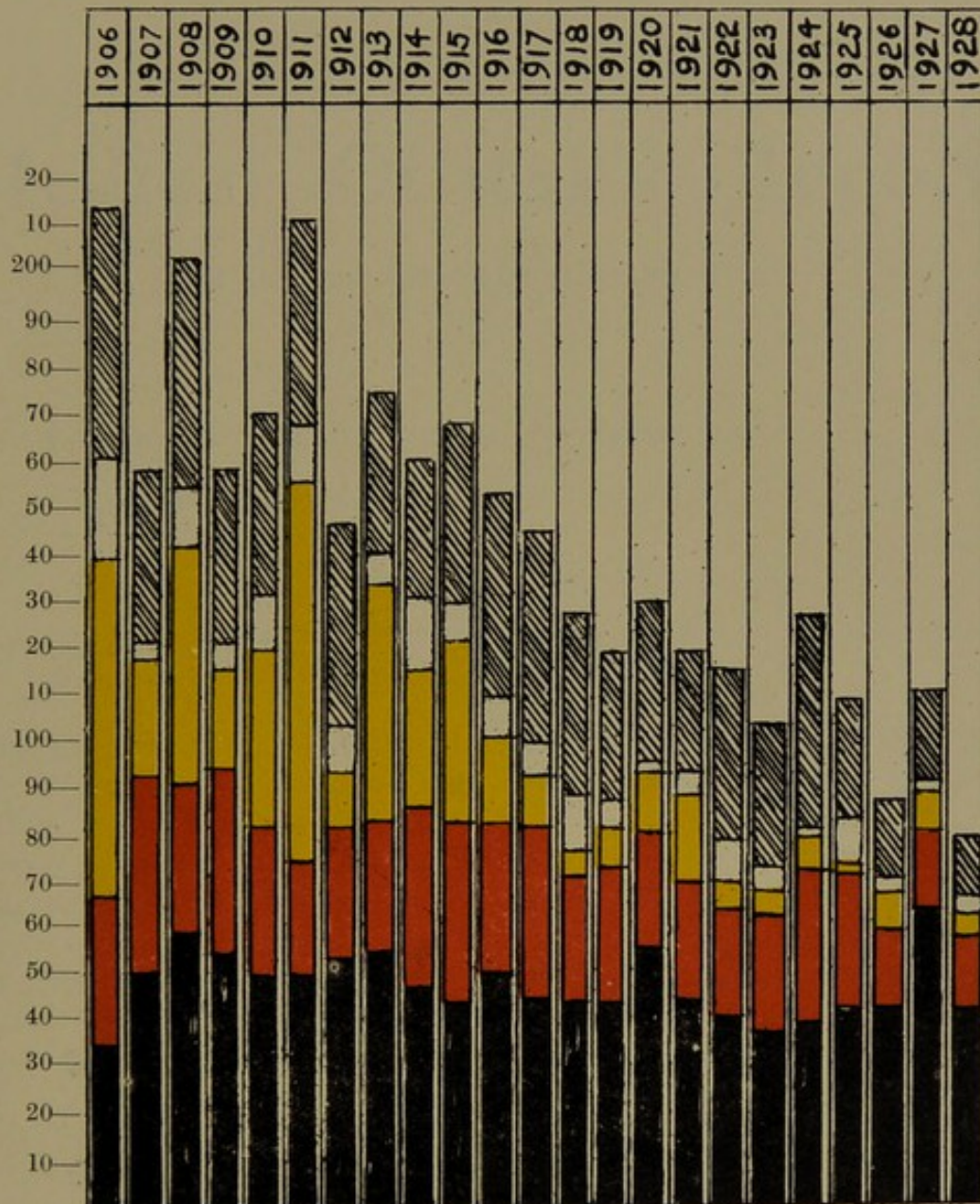
| | | | | | |
|---|-----|-----|-----|-----|----------------------------|
| Area in Statute Acres | ... | ... | ... | ... | 4694.7. |
| Area built upon | ... | ... | ... | ... | approximately 1,698 acres. |
| Enumerated Population (Census 1921) | ... | ... | ... | ... | 103,157. |
| Registrar General's Estimate of Population middle of 1928 | ... | ... | ... | ... | 100,700 |
| Density of Population, i.e., Number of persons per acre | ... | ... | ... | ... | 21.4 |
| Number of Inhabited Houses, 1921 | ... | ... | ... | ... | 25,295 |
| Number of Inhabited Houses, 1928 | ... | ... | ... | ... | 26,574 |
| Number of Families, or separate occupiers, 1921 | ... | ... | ... | ... | 25,515 |
| Number of New Houses erected in 1928 | ... | ... | ... | ... | 263 |
| Rateable Value | ... | ... | ... | ... | £649,516 |
| Sum represented by a penny rate | ... | ... | ... | ... | £2,430 |
| Amount of Poor Law (Out-door Relief) paid in 1928 | ... | ... | ... | ... | £25,136 |

2.—EXTRACTS FROM VITAL STATISTICS.

| | 1928 | 1927 |
|--|-------|-------|
| Number of Births (Legitimate: M. 711, F. 698—Total 1,409 (Illegitimate: M. 46, F. 46—Total 92) | 1,501 | 1,507 |
| Birth Rate per 1,000 of population | 14.96 | 15.2 |
| Number of Deaths (Males 659, Females 686) | 1,345 | 1,529 |
| Death Rate per 1,000 of population | 13.3 | 15.4 |
| Number of Women dying in, or in consequence of, Childbirth— | | |
| From Sepsis | — | 1 |
| From other causes | 5 | 11 |
| Maternal Mortality per 1,000 Births | 3.33 | 8.3 |
| Number of Deaths of Infants under 1 year of age | 119 | 166 |
| Infantile Mortality per 1,000 Births | 79.3 | 110.2 |
| Death Rates per 1,000 of population, from | | |
| Pulmonary Tuberculosis | 0.82 | 0.74 |
| All Forms of Tuberculosis | 0.98 | 0.87 |
| Respiratory Diseases (excluding Pulmonary Tuberculosis) | 1.72 | 2.21 |
| Cancer | 1.59 | 1.55 |
| Seven Principal Zymotic Diseases: Smallpox, Enteric Fever, Measles, Scarlet Fever, Whooping Cough, Diphtheria and Membranous Croup | 0.20 | 0.41 |
| Death Rate from Diarrhoea and Enteritis of Children under 2 years of age, per 1,000 births | 7.33 | 10.6 |
| Deaths from Measles (all ages) | 8 | 32 |
| Deaths from Whooping Cough (all ages) | 2 | 1 |
| Deaths from Diarrhoea under 2 years | 11 | 16 |



Infantile Mortality per 1,000 Births, from various causes, 1906-1928.



- Congenital Debility, Malformation, and Premature Birth.
- Respiratory Diseases.
- Diarrhoea and Enteritis.
- Infectious Diseases.
- Other Causes.

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COUNTY BOROUGH OF BURNLEY.

HEALTH DEPARTMENT.

Medical Officer's Report

For the Year ended 31st December, 1928.

TO THE CHAIRMAN OF THE HEALTH AND MATERNITY AND
CHILD WELFARE COMMITTEE.

SIR,

I have the honour to report on the conditions affecting the general health of the inhabitants of Burnley during the year 1928.

Amongst the child population, infants and school children, the general health, as far as can be judged from figures, has been good. The rate of mortality amongst infants under 1 year of age (79 per 1,000 births), was the lowest so far recorded in Burnley, the previous lowest being 86 in 1926. This figure of 79 is the nearest approach to the average figure for the County Boroughs of England and Wales that we have attained, and in the Lancashire towns where we were formerly either at the top of the list with the greatest mortality or very near to it, Burnley in 1928 is the 18th in the list given in the body of the Report.

If we compare the infant mortality rates for the last 30 years the fall is remarkable.

| Period. | Average Infant Mortality Rate per 1,000 Births. | | |
|---------------|--|-----|-----|
| 1894-1898 ... | ... | ... | 202 |
| 1904-1908 ... | ... | ... | 195 |
| 1914-1918 ... | ... | ... | 149 |
| 1924-1928 ... | ... | ... | 102 |

The various causes of death for the last 23 years and their relative importance are well shown in the chart. The great fall is due in part to a general reduction of all the causes, but more particularly those caused by infantile diarrhoea and respiratory diseases. Those, however, brought about by congenital defects, premature birth, etc., show practically no signs of lessening. The average number of deaths from these latter causes in Burnley for the last 10 years is 42 per 1,000 births, as compared with 39 in the whole of the large towns in the north of England.

The great fall as regards type of disease causing death is in the incidence of those which are directly preventible. The causes of death which are not so directly preventible do not show this decline.

There is evidence of increasing care exercised in the rearing of infants.

The figures for "overlying" of infants are here given for the last 20 years.

| Period. | No. of Deaths. | | Rate per 1,000 | |
|-----------|----------------|------------------------------|----------------|---------|
| | | from Accidental Suffocation. | | Births. |
| 1909-1913 | ... | 33 | ... | 2.58 |
| 1914-1918 | ... | 15 | ... | 1.60 |
| 1919-1923 | ... | 7 | ... | 0.69 |
| 1924-1928 | ... | 4 | ... | 0.50 |

That there is a distinct improvement in the health of the school children is shown in the chart given in that part of the Report referring to the School Medical Services, the percentage of absentees being the lowest for the last 10 years.

As regards the rest of the population there is no particular remark to be made.

The epidemic of Smallpox came to an end in October, 1928. In all there were 222 cases notified, of which 166 had not been vaccinated, 56 had only been vaccinated in infancy, and none had been re-vaccinated. The whole of the cases were of a mild type. As in every epidemic of this disease the efficacy of vaccination and re-vaccination as a preventative was fully demonstrated.

The death rate from tuberculosis shows a slight advance on last year. We are still short of Hospital accommodation for the isolation of advanced cases which, as a rule, are the most likely to infect others. Our only hope of abolishing tuberculosis is the isolation of those who are capable of spreading the infection, or at any rate, dealing with them in such a way that they can not infect other persons.

It is generally recognised that children are not born with the disease, but that many acquire it very early in life, often from a parent, and it may be years before there are signs which cause it to be recognised as tuberculosis. This is the fact that has led to the general belief that tuberculosis is hereditary.

The isolation of tuberculous parents would do much to abolish the idea of hereditary in tuberculosis.

We still have to show a scheme which will draw in the early cases. One of the first suggestions made as a substitute for Sanatorium treatment was that persons might have sleeping shelters loaned to them by Local Authorities for erection in the backyard or in a garden attached to the house. Many years ago a hut was actually purchased by this Department for such a purpose. So far there is no record that it has ever been used to house a tuberculous patient. Perhaps that is not astonishing for 120 square feet only is our recognised yard space, many of the affected persons not having even that amount. The provision of shelters on a suitable site by a Local Authority would in many cases be both an economical and effective substitute for our present Sanatorium treatment, possessing the great advantage of allowing patients to remain in close touch with their families whilst under observation and treatment.

There are several persons on our Dispensary list who would greatly benefit by this suggested treatment, and the initial cost of providing shelters of the kind required would be comparatively small. There would also be no difficulty in securing a site for their erection, as suitable land in the possession of the Joint Hospital Board has already been earmarked for such a purpose.

In February the Ladies' Guild at Bank Hall Hospital kindly presented to the Corporation a Sunlight Clinic, and a report of the work done there is given on page 101.

Increasing use is being made of Bank Hall as a Maternity Home, for there were 400 births there in 1928, as compared with 327 in 1927, that is more than a quarter of the total births. As a teaching centre for Midwives much good work has been done there during the year. 13 pupils presented themselves for the examination of the Central Midwives' Board, and all obtained the certificate. Certain structural alterations at Bank Hall enabled the Committee to appoint a Resident Medical Officer, who took up her duties in July.

The testing of milk as regards cleanliness has been continued at our Public Health Laboratory and shews that a tremendous improvement has taken place in the cleanliness of our milk supply since these tests were started in 1925. The comparison between the first and last series of tests is here given.

| | Very Good. | | Good. | | Fair. | | Bad. |
|------------------------|---------------|-----|-------|-----|-------|-----|------|
| First series (1925)... | 24% | ... | 21% | ... | 22% | ... | 33% |
| Last series (1928) ... | 78% | ... | 21% | ... | 1% | ... | Nil. |

The quality of our milk, as shewn in the Borough Analyst's quarterly reports, continues to be generally of a satisfactory standard. The method of distribution of milk in Burnley continues to be unsatisfactory. Most of it is delivered by farmers, the milk being measured into the customers' vessels from kits, these vessels being often left on a doorstep or window-sill for some considerable period. There are great possibilities of contamination in this method of conveying and measuring out of the milk. There are also risks in the way the milk is left and also stored at the customer's house, often so ineffectively protected that the dust and dirt with which the atmosphere of our town is very well supplied has easy access. This contamination helps to cause decomposition with its obvious dangers, especially to young children. The system of bottling, though carried out extensively by one firm, is not practised as much as it ought to be.

The year 1928 shews a diminution in the number of back-to-back houses by 92, and single room dwellings by 7. These houses formed part of the Finsley Gate area, for which an order for demolition was obtained from the Ministry of Health in 1924.

A further 725 ashpits were replaced during the year by ashbins. This leaves 10,817 ashpits still in existence.

On the three Municipal housing sites there are 636 houses occupied, and 178 in course of erection. On the Small Holdings, a piece of land 104 acres in extent, there are 32 dwellings.

In October a very successful "Health Week" was held. Sir George Newman, the Chief Medical Officer to the Ministry of Health, kindly accepted the invitation of the Committee to be present, and his address to the members of the Local Authority and other public bodies was an exceptionally fitting inauguration of the "week."

I have to thank the members of the Health and Maternity and Child Welfare Committee for their kind consideration, and all the members of the staff of the Department for their willing and loyal help during the year.

I am, Sir,

Your obedient Servant,

THOMAS HOLT,

Medical Officer of Health.

July, 1929.

REPORT.

Section 1.

Natural and Social Conditions of the Area.

Position—Latitude $53^{\circ} 47' 30''$ N. and Longitude $2^{\circ} 14' 30''$ W.

Mean Height above Sea level, 465 feet.

Area and Population :—

The Borough is 4694·7 acres in area.

The enumerated population at the 1921 census was 103,157.

The Registrar General's estimate of the population of Burnley at the 30th June, 1928, is 100,700.

The estimate for the previous year was 99,270, so that an increase of 1,430 has to be recorded.

The number of births exceeded the deaths by 156.

Occupation.—The 1921 Census return revealed the fact that there were 61,205 occupied persons over 12 years of age (35,154 males, and 26,051 females) 31,951 were employed in the cotton industry (11,734 males and 20,217 females), and of these 23,772 or 74% were employed as cotton weavers. The sex distribution of the cotton weavers was 7,445 males, 16,327 females.

The other occupations included metal workers, 3,208, workers in wood and furniture 1,099, makers of textile goods and articles of dress 1,468, persons employed in transport and communication 2,600, builders, bricklayers, stone and slate workers, 1,008, mining and quarrying occupations 3,107.

Baths.—There are three Public Baths owned by the Corporation. The number of attendances during the year ended 31st March, 1929, was 202,324.

Poor Law Relief.—The total amount of Out-door Relief expended in Burnley during the year was £25,136. The weekly average number of persons in receipt of Out-relief was 1,874, comprising 736 families ; 594 were in receipt of in-door relief.

Unemployment.—The average number of unemployed in Burnley, on the register of the Employment Exchange was 4231 per week, as compared with 4,153 in 1927.

Health Insurance.—The total number of insured persons in Burnley, on the 31st December, 1928, was approximately 55,000, or about 56% of the total population.

VITAL STATISTICS.

Births.—There have been 1,520 births (774 males, 746 females) registered in Burnley during 1928. 70 of these were born of mothers whose residence was outside the Borough, and are therefore outward transfers. This leaves 1,450 Burnley births registered in the Borough. In addition the Registrar General has assigned 51 births to Burnley which were born outside the area. The net Burnley births registered during the year are therefore 1,501, of which there were 757 males and 744 females.

Illegitimate births amounted to 92 (46 males and 46 females), the percentage being 6.1 compared with 6.2 in the previous year.

The birth rate per 1,000 of population is 14.96 as compared with 15.2 in 1927, and 17.5 the average for the preceding 10 years. The rate is highest in St. Paul's Ward and lowest in St. Andrew's Ward.

Throughout England and Wales the birth rate in 1928 was 16.7, and in the 107 great towns 16.9.

Deaths.—There were 1,513 deaths registered in Burnley during the year. Of this number 223 were treated as outward transfers to other districts, leaving 1,290 deaths of residents. To this number has been added 55 deaths of Burnley people who died in other districts. 13 of these deaths occurred in Institutions for the Mentally Defective.

The net deaths therefore are 1,345 (males 659, females 686) giving a crude death rate of 13.36 per 1,000 of population, as compared with 15.4 for 1927 and 14.9, the average for the last 10 years. The death rate for England and Wales in 1928 was 11.7, and in the 107 great towns 11.6.

Age Distribution.—There were 160 deaths under 5 years of age (11.9%) 119 being children under 1 year of age; 38 of school children, i.e., between 5 and 15 years of age; 52 between 15 and 25; 157 from 25 to 45; 398 between 45 and 65 and 540 or rather more than a third of the total deaths were persons aged 65 years and upwards.

There have been 605 deaths in Public Institutions as follows:—

| | Deaths of residents. | | Deaths of non-residents. |
|---|-------------------------|-----|-----------------------------|
| Primrose Bank Institution | 246 | ... | 152 |
| Victoria Hospital | 90 | ... | 40 |
| The Sanatorium | 17 | ... | 18 |
| Bank Hall Maternity & Children's Hospital | 37 | ... | 5 |
| | — | | — |
| | 390 | ... | 215 |
| | — | | — |

The following table gives comparative figures respecting birth rate, death rate and analysis of Mortality during the year 1928.

Table shewing Birth Rate, Death Rate, and Analysis of Mortality during the year 1928.

(Provisional figures. The rates for England and Wales have been calculated on a population estimated to the middle of 1928, but those for the towns to the middle of 1927. The Mortality Rates refer to the whole populations as regards England and Wales, but only to civilians as regards London and the groups of towns).

This Table, with the exception of the line relating to the Borough, has been compiled by the Registrar-General.

| | Birth Rate per 1,000 Total Population. | Annual Death Rate per 1,000 Population. | | | | | | | | Rate per 1,000 Births. | | |
|---|--|---|----------------|-------------|-------------|----------------|-----------------|-------------|-------------|------------------------|--|----------------------------|
| | | All Causes. | Enteric Fever. | Small-pox. | Measles. | Scarlet Fever. | Whooping Cough. | Diphtheria. | Influenza. | Violence. | Diarrhoea and Enteritis (under 2 years). | Total Deaths under 1 year. |
| England and Wales | 16.7 | 11.7 | 0.01 | 0.00 | 0.11 | 0.01 | 0.07 | 0.06 | 0.19 | 0.53 | 7.0 | 65 |
| 107 County Boroughs and Great Towns, including London ... | 16.9 | 11.6 | 0.01 | 0.00 | 0.15 | 0.02 | 0.09 | 0.09 | 0.17 | 0.48 | 9.6 | 70 |
| 155 Smaller Towns (1921 adjusted populations 20,000-50,000) ... | 16.6 | 10.6 | 0.01 | 0.00 | 0.08 | 0.01 | 0.06 | 0.08 | 0.21 | 0.41 | 4.8 | 60 |
| London | 15.9 | 11.6 | 0.01 | 0.00 | 0.30 | 0.02 | 0.09 | 0.09 | 0.13 | 0.55 | 10.2 | 67 |
| BURNLEY Population (100,700) ... | 15.0 | 13.3 | 0.01 | 0.00 | 0.08 | 0.01 | 0.02 | 0.07 | 0.26 | 0.44 | 7.3 | 79 |

Causes of Death.

In the table below the chief causes of death are shewn. Details of the causes and ages at death with Ward distribution are given in Table 1 of the Appendix.

| | No. | % of Total Deaths. |
|--------------------------------------|-----|-----------------------|
| Heart Disease | 308 | ... 22·9 |
| Respiratory Diseases, etc. | 173 | ... 12·9 |
| Cancer | 160 | ... 11·9 |
| All Forms of Tuberculosis | 99 | ... 6·1 |
| Cerebral Hæmorrhage ; Apoplexy | 72 | ... 5·3 |
| Diseases of Arteries | 61 | ... 4·5 |
| Diseases of Early Infancy | 59 | ... 4·4 |
| Senility | 56 | ... 4·2 |
| Diseases of Urinary System | 53 | ... 4·0 |
| Violence | 44 | ... 3·2 |
| Influenza | 26 | ... 2·0 |

Respiratory and Heart Diseases.—As in former years these continue to be the principal causes of death. Together they make up 35·8% of the total deaths in 1928.

Cancer.—There were 160 deaths from Cancer, as compared with 154 last year. The death rate is 1·59 per thousand of the population and is the highest recorded. The rate has been more than doubled since 1881.

Below are given the deaths from cancer in certain age groups for males and females for the last 10 years.

| Year | Total Cancer Deaths | Sex | Age | | | |
|-----------|---------------------------|-----|-------------|-------|-------|-------------------|
| | | | Under 25 | 25—45 | 45—65 | 65 and upwards |
| 1919..... | 105 | M | — | 6 | 15 | 13 |
| | | F | — | 13 | 36 | 22 |
| 1920..... | 128 | M | — | 2 | 24 | 25 |
| | | F | 1 | 11 | 41 | 24 |
| 1921..... | 148 | M | 1 | 5 | 43 | 27 |
| | | F | — | 7 | 31 | 34 |
| 1922..... | 108 | M | — | — | 28 | 13 |
| | | F | 1 | 7 | 30 | 29 |
| 1923..... | 145 | M | 1 | 6 | 39 | 21 |
| | | F | — | 4 | 47 | 27 |
| 1924..... | 118 | M | — | 3 | 26 | 24 |
| | | F | 1 | 7 | 31 | 26 |
| 1925..... | 126 | M | — | 5 | 28 | 25 |
| | | F | 1 | 13 | 34 | 20 |
| 1926..... | 131 | M | — | 3 | 40 | 18 |
| | | F | 1 | 5 | 40 | 24 |
| 1927..... | 154 | M | 1 | — | 31 | 27 |
| | | F | — | 16 | 40 | 39 |
| 1928..... | 160 | M | 1 | 7 | 31 | 32 |
| | | F | — | 9 | 42 | 38 |

Influenza.—The mortality from this cause was very high in 1927, 1·08 per 1,000. There were 107 deaths. In 1928 the deaths numbered 26, and the death rate was 0·26.

Tuberculosis (all forms).—Deaths attributed to tuberculosis in 1928 numbered 99, respiratory system 83, other forms 16. Last year's total was 86.

Infant Mortality.—The number of deaths of infants under one year of age registered was 119 or nearly 9% of the total deaths at all ages. In 1927 the infant deaths numbered 166 or 9·2% of the total deaths.

The rate per 1,000 births is 79·3 compared with 110 in 1927, a decrease of 30.

Of the 119 deaths of infants, 12 were illegitimate children. The infant mortality amongst these children was 130 per 1,000 illegitimate births, as compared with 215 in 1927.

The following table shews the Infantile Death Rate per 1,000 births for both sexes during the year under review, and the previous 10 years:—

| | Births. | | Infantile Deaths. | | Infantile Death Rate, per 1,000 Births. | | |
|-------------|---------|---------|-------------------|---------|--|---------|---------------|
| | Males | Females | Males | Females | Males | Females | Both Sexes |
| 1918 | 747 | 716 | 98 | 86 | 131.1 | 120.1 | 126 |
| 1919 | 770 | 830 | 107 | 82 | 138.9 | 98.8 | 118 |
| 1920 | 1,213 | 1,243 | 182 | 135 | 150.0 | 108.6 | 129 |
| 1921 | 1,239 | 1,107 | 171 | 108 | 138.1 | 97.6 | 118 |
| 1922 | 997 | 959 | 129 | 94 | 129.4 | 98.0 | 114 |
| 1923 | 895 | 929 | 101 | 86 | 112.8 | 92.6 | 103 |
| 1924 | 867 | 834 | 132 | 83 | 152.2 | 99.5 | 126 |
| 1925 | 818 | 821 | 100 | 78 | 122.2 | 95.0 | 109 |
| 1926 | 845 | 755 | 81 | 57 | 95.8 | 75.5 | 86 |
| 1927 | 792 | 715 | 98 | 68 | 123.7 | 95.1 | 110 |
| 1928 | 757 | 744 | 63 | 56 | 83.2 | 75.3 | 79.3 |

The mortality amongst infants during 1928 in England and Wales and in the 107 great towns was 65 and 70 per 1,000 births respectively.

The Neo-Natal Mortality, i.e., the deaths of children under 4 weeks of age in 1928 was 42.6 per 1,000 births.

The comparative figures are:—

| | |
|-------------|------|
| 1923 | 37.3 |
| 1924 | 35.8 |
| 1925 | 37.2 |
| 1926 | 36.9 |
| 1927 | 48.9 |
| 1928 | 42.6 |

Causes of Death of Infants.

The chief causes of death of children under one year of age are given below with a comparison for 1927. Further details respecting age and Ward distribution are given in the Appendix.

Table shewing Causes of Death of Children under One Year.

| Cause. | 1928 | | 1927 |
|---------------------------------------|------|-----|------|
| Congenital Debility, Malformation and | | | |
| Premature Birth | 59 | ... | 94 |
| Premature Birth, etc. | 38 | ... | 61 |
| Congenital Malformation | 9 | ... | 18 |
| Congenital Debility | 12 | ... | 15 |
| Respiratory Diseases | 26 | ... | 27 |
| Bronchitis | 13 | ... | 7 |
| Pneumonia | 3 | ... | 2 |
| Broncho-Pneumonia | 10 | ... | 18 |
| Measles | 1 | ... | 4 |
| Whooping Cough | 2 | ... | — |
| Rickets | 1 | ... | — |
| Diarrhœa and Enteritis | 10 | ... | 13 |
| Convulsions | 9 | ... | 6 |
| Accidental Suffocation | 1 | ... | 1 |
| Other Causes | 10 | ... | 21 |
| Total..... | 119 | ... | 166 |

Nearly 50% of the total infant deaths were due to congenital debility, malformation and premature birth, and respiratory diseases (bronchitis, pneumonia, etc.), were responsible for 22%.

Table shewing Infantile Mortality in the Lancashire Towns during 1928, as
shewn by the Returns of the Registrar-General.

| Name of Town. | Deaths of Infants under 1 year per 1,000 Births. |
|------------------------|--|
| Padiham | 113 |
| Bacup | 101 |
| St. Helens | 97 |
| Ashton-in-Makerfield | 96 |
| Salford | 96 |
| Liverpool | 92 |
| Wigan | 92 |
| Manchester | 90 |
| Bury | 89 |
| Leigh | 89 |
| Bootle | 87 |
| Preston | 86 |
| Swinton and Pendlebury | 84 |
| Ince-in-Makerfield | 83 |
| Oldham | 83 |
| Chorley | 79 |
| Hindley | 79 |
| Widnes | 79 |
| BURNLEY | 79 |
| Blackburn | 78 |
| Rochdale | 78 |
| Southport | 75 |
| Accrington | 74 |
| Blackpool | 72 |
| Farnworth | 71 |
| Chadderton | 69 |
| Heywood | 68 |
| Lancaster | 68 |
| Rawtenstall | 68 |
| Ashton-under-Lyne | 67 |
| Darwen | 67 |
| Eccles | 67 |
| Bolton | 64 |
| Warrington | 64 |
| Barrow-in-Furness | 61 |
| Middleton | 61 |
| Stretford | 61 |
| Colne | 60 |
| Radcliffe | 60 |
| Morecambe and Heysham | 59 |
| Nelson | 57 |
| Atherton | 56 |
| Waterloo-with-Seaforth | 43 |
| Lytham-St. Annes | 30 |

Section 2.

General Provision of Health Services in the Area.

HOSPITALS PROVIDED OR SUBSIDIZED BY THE LOCAL AUTHORITY.**(1) MATERNITY AND CHILDREN.**

Bank Hall Municipal Maternity and Children's Hospital is situate in the Borough. This Hospital comprises wards for Maternity cases (20 beds) and one ward for sick or ailing children (24 beds), together with a Clinic for Expectant and Nursing Mothers and Children.

In 1928, 417 Maternity cases and 117 children were received into the Hospital.

(2) INFECTIOUS DISEASES.

Hospital accommodation is provided by the Burnley Joint Hospital Board. The Fever Hospital, called the "Sanatorium," is situate within the Borough and has accommodation for 116 patients. The Smallpox Isolation block, also under the Joint Hospital Board, is a temporary structure situate outside the Borough and remote from other habitations.

During the year 343 cases, apart from Tuberculous persons, were admitted to the Fever Hospital. 176 of these were Burnley residents.

337 patients were admitted to the Smallpox Hospital, 177 of whom were Burnley residents.

(3) OTHER.

The Victoria Hospital, situate in Burnley, is a charitable institution for Burnley and District, and has provision for over 100 patients. It is a general hospital and quite a modern building.

The number of patients dealt with at this hospital in 1928 was

| | | | Daily Average | |
|--------------|---------------|-------------|---------------|-----|
| | | | No. of beds | |
| In-patients. | Out-patients. | Total. | Occupied. | |
| 1,577 | 3,616 | 5,193 | ..... | 106 |

The Infirmary of the Burnley Union at Primrose Bank is situated in the Borough. There is accommodation for 271 patients: Males 98, Females 109, Children 49, and Maternity Cases 15. During the year 1928, 1,884 patients were dealt with.

Subsidies to Medical Institutions.—Contributions are made by the Local Authority to the following:—Victoria Hospital, Burnley; Burnley and District Nursing Association; and the Manchester and Salford Medical Charities.

Convalescent Home.—The Convalescent Home for Children at Lytham-St. Annes was built by the late Sir John Thursby for the children of Burnley and district. There is accommodation for twelve boys and twelve girls, and during the year 242 children were admitted, 161 of these being Burnley children; most of the Burnley children were sent to the Home under a recommendation and certificate from the School Clinic.

Professional Nursing in the Home.

A voluntary body, the Burnley District Nursing Association, undertakes the professional nursing of cases of general sickness in the home.

The Local Authority has an arrangement for payment per visit in connection with their Maternity and Child Welfare Scheme whereby the above Association sends a nurse when required to cases of whooping cough, measles and diarrhoea in young children, to cases of Puerperal Fever, Pyrexia, Ophthalmia, and for Maternity nursing.

Midwives.

No practising Midwives are employed or subsidized by the local authority.

Apart from those in institutions, 21 Midwives notified their intention to practise in the Borough during 1928.

Registration of Nursing Homes.

Three applications for registration as Nursing Homes were received during 1928. Two of these related to places already registered as Maternity Homes under the local act of 1925, and both were registered. An order was made refusing registration in the other case. No appeal was made against such order.

There have been no applications for exemption from registration.

Institutional Treatment for unmarried mothers, illegitimate infants and homeless children.

There are no institutions specifically set apart for dealing with these cases. The Guardians of the Poor have, so far, dealt with them in Burnley.

Ambulance Facilities.

The Joint Hospital Board possess a motor ambulance for the removal of infectious cases. The Police Department have two ambulances for non-

infectious and accident cases. The Health Department also possesses an ambulance which is used for the conveyance of Smallpox and certain cases of Tuberculosis.

Chemical Work.

The analytical work of the Department is carried out by the Borough Analyst, Mr. Raymond Ross, F.I.C., F.C.S.

CLINICS AND TREATMENT CENTRES.

(1) Maternity and Child Welfare.

(a) **INFANT WELFARE CENTRES.**—Bank Hall Hospital (Mondays and Wednesdays), Parker Street (Thursday), Ebenezer School (Tuesday), Lowerhouse School (Tuesday), Mount Olivet School (Wednesday) and Lanebridge School (Wednesday).

(b) **ANTE-NATAL CLINICS.**—Bank Hall Hospital on Monday, Wednesday and Friday; Parker Street on Friday; and Lowerhouse School on Tuesday.

All these centres are provided by the Local Authority.

(2) Day Nurseries.—None.

(3) School Clinic.

Elizabeth Street, provided by the Local Education Authority. There are Ophthalmic, Dental and Minor Ailments and Orthopædic Clinics, and provision for X-ray treatment. The Clinic is open daily.

(4) Tuberculosis.

The Municipal Dispensary in the Old Technical School building, Elizabeth Street, waiting and consulting rooms. Open daily.

(5) Venereal Diseases.

Treatment Centre at the Victoria Hospital, provided by the Local Authority. Monday morning and evening and Thursday evening for men, and Friday morning and evening for women.

(6) Sunlight Clinic.

This is situate in the grounds of Bank Hall Hospital.

LEGISLATION IN FORCE.

The following is a list of the General Adoptive Acts, Local Acts, Byelaws and Local Regulations in force in the Borough, with the date they became operative:

| | | | |
|--|-----|-----|---------------------|
| Public Health Acts Amendment Act, 1890 | ... | ... | 1st July, 1891. |
| Infectious Diseases Prevention Act, 1890 | ... | ... | 1st June, 1891. |
| Notification of Births Act, 1907 | ... | ... | 5th February, 1908. |

| | |
|---|----------------------|
| Public Health Acts (Amendment) Act, 1907 | |
| Sections 18, 20, 21, 22, 26, 27, 32, 33 in Part II. ; | |
| Sections 35, 36, 37, 43, 47, 49, 50 and 51, in | |
| Part III. ; Parts IV., V. and VI., and Sections | |
| 93 and 95 in Part X. | 17th January, 1911. |
| Section 51 | 23rd October, 1911, |
| Sections 39, 40, 41, 42 | 1st February, 1915. |
| Public Health Act, 1925 | |
| Sections 13, 14, 15, 16, 18, 21, 22, 25, 26, 29, 30, | |
| 31, 32, 33, in Part II. | |
| Sections 36, 37, 38, 39, 40, 41, 42, in Part III. ... | |
| Sections 45, 47, 48, 49, 50, in Part IV. ... | |
| Sections 53 and 55, in Part V. | 1st September, 1926. |

LOCAL ACTS—

- Burnley Borough Improvement Acts, 1871 and 1883.
- The Local Government Provisional Orders Confirmation (No. 18) Act,
1894 (Hospital Accommodation for Infectious Diseases).
- Burnley Corporation Acts, 1908, 1921 and 1925.

BYE-LAWS—

- With respect to Houses let in Lodgings, Adopted 14th February, 1898.
- „ „ Common Lodging Houses, Adopted 31st October, 1906.
- „ „ Nuisances, Adopted 1st September, 1909.

REGULATIONS—

- The Borough of Burnley, etc. (Measles and
German Measles) Regulations, 1920, Adopted 28th February, 1920.

Section 3.

Sanitary Circumstances of the District.

Water Supply.

With the exception of about seven farms and a few houses on the outskirts, all houses are provided with town's water.

The supply comes from the moorlands in the basin of the River Brun to the east of the town, and is constant and of good quality. The water is analysed and reported upon monthly by the Borough Analyst.

There are 6 reservoirs with a holding capacity of 742,000,000 gallons, and the supply is taken from a gathering ground of 3,225 acres. One of the 6 reservoirs is for compensation purposes and holds 22,000,000 gallons.

All the reservoirs are within a distance of 4 miles from the centre of the town.

The consumption of water during the year 1928 was 916,261,972 gallons, the average daily consumption per head for all purposes being 24·9 gallons.

Rainfall.

The rainfall at Swinden gathering grounds was: Surface 57·72 inches, House Top 58·79 inches; at Cant Clough gathering grounds: North 55·26 inches, South 57·51 inches. At the Climatological Station, Queen's Park, the amount of rain recorded was 51·4 inches.

Rivers and Streams.

The water from the rivers as they run through the town is not used for domestic purposes.

The rivers are fairly free from pollution and no action has been taken by the Local Authority under this head.

Drainage and Sewerage.

DISPOSAL. The excreta is disposed of chiefly by water carriage to the Sewage Works at Wood End and Altham. The sewage is passed into septic tanks, the deposit being afterwards pressed and used as manure. The effluent after passing through clinker beds is discharged into the river.

The following are some of the particulars regarding the sewage disposal works:—

| | | | | | |
|--|-----|-----|-----|-----|-----------------|
| Total area of Sewage Works | ... | ... | ... | ... | 83 acres. |
| „ Bacteria Beds | ... | ... | ... | ... | 26 acres. |
| Capacity of Sedimentation Tanks | ... | ... | ... | ... | 3,190,000 gals. |
| „ Aeration and Mixing Tanks | ... | ... | ... | ... | 138,800 gals. |
| „ Storm Water Tanks | ... | ... | ... | ... | 200,000 gals. |
| Average daily dry weather flow of sewage | ... | ... | ... | ... | 3,400,000 gals. |

The drains and sewers are both sufficient and efficient. Certain areas of the town have a surface drainage system with storm overflows to allow of storm water from this system passing direct to the river.

Closet Accommodation.

The following gives the number of each type of convenience at the end of 1928.

| | | | | |
|------------------------------------|-----|-----|-----|--------|
| Clean Water Closets | ... | ... | ... | 11,749 |
| Waste Water Closets | ... | ... | ... | 18,309 |
| Latrines (477) with Closets | ... | ... | ... | 2,088 |
| Wall, Earthenware and Pail Privies | ... | ... | ... | 230 |

Most of the privy closets are on the outskirts of the town where no sewer is available.

Lavatory and Urinal Accommodation.

There is, in the centre of the town, a public convenience and lavatory for each sex. There are 2 other conveniences for women, and 36 public urinals. Sanitary conveniences are also provided for each sex at the various parks and at the Cemetery.

Scavenging.

Refuse is disposed of at the Destructor, which is centrally situated, and at the tips in various parts of the town.

The Cleansing Department, which is responsible for this work, supply the following figures relating to the amount of refuse dealt with during the year ended 31st March, 1929.

| | | | |
|--|-----|-----|--------------|
| Total amount of refuse destroyed | ... | ... | 16,162 tons. |
| „ „ tipped | ... | ... | 5,721 tons. |
| Clinker tipped | ... | ... | 2,647 tons. |
| Fine ash and dust separated and tipped | ... | ... | 6,408 tons. |
| Total amount of refuse collected during the year | ... | ... | 21,883 tons. |

The number of ashpits in use at the end of the year was 10,817, and the number of bins 15,178.

There has been a gradual substitution of ashbins for ashpits during recent years. The number of bins in use for previous years is here given.

| 1908 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 |
|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2,969 | 9,628 | 9,853 | 10,615 | 11,352 | 11,794 | 12,146 | 12,629 | 13,157 | 14,453 | 15,178 |

Section 67 (a) of the Burnley Corporation Act, 1925, states as follows:—

Provided that:—

“ In any case where the Corporation require a galvanised iron dustbin to be provided in lieu of any ashpit or ashtub in use at the passing of this Act, they shall, except in any case in which the medical officer or the sanitary inspector shall have certified that owing to wilful neglect on the part of the owner after due notice to keep the same in proper repair, any such ashpit or ashtub is in such a state as to create a nuisance or be injurious to health, bear and pay such sum towards the expenses of providing such galvanised iron dustbin (being not less than one half thereof), as they may consider just and proper according to the circumstances and the remainder of such expenses shall be borne by the owner.”

Under this section it is hoped that all our insanitary ashpits, of which there are a great number, will soon be abolished.

General Sanitary Inspection.

This work is carried out by six Assistant Sanitary Inspectors under the direction and control of the Chief Inspector. One Assistant is employed solely on the investigation of cases of Infectious Disease and the supervision of disinfection, etc. There are four District Inspectors who are each responsible for one of the districts into which the town is divided; the other Assistant is available to render help where required, and also carries out certain special duties.

During the year 2,667 complaints were received and investigated. The conditions revealed on investigation showed that most of these were justified, though in some cases no nuisance was found to exist.

The following summary gives a classified list of the visits paid by the Inspectors during the year, compared with the figures for the preceding year.

| | 1928 | 1927 |
|------------------------------------|------|------|
| | No. | No. |
| Visits to Factories | 168 | 155 |
| „ Workshops and Workplaces..... | 535 | 365 |
| „ Bakeries | 953 | 930 |
| „ Chip, Fish and Tripe Shops | 475 | 369 |

| | 1928 | 1927 |
|--|-------|-------|
| | No. | No. |
| Visits to Ice-cream Shops | 177 | 260 |
| „ Milk and Grocers' Shops | 67 | 123 |
| „ Fruiterers' and Fishmongers' Premises | 38 | 62 |
| „ Butchers, Bloodboilers and Food Preparers ... | 68 | 100 |
| „ Milliners and Dressmakers..... | 13 | 14 |
| „ Other Dress Trades..... | 14 | 44 |
| „ Hairdressers and Barbers | 6 | 6 |
| „ Marine Stores and Offensive Trades | 229 | 91 |
| „ Stables and Manure Pits | 3193 | 2340 |
| „ Premises where Animals are kept | 247 | 205 |
| „ Lodging-Houses, Registered | 84 | 70 |
| „ Lodging-Houses, Unregistered | 29 | 28 |
| „ Vans, Tents, &c. | 110 | 190 |
| „ Canal Boats | 42 | 107 |
| „ Single Dwellings | 59 | 70 |
| „ Back-to-Back Dwellings | 1588 | 1627 |
| „ Furnished Rooms | 747 | 598 |
| „ Other Dwellings | 12482 | 10169 |
| „ Reported Overcrowded Dwellings | 22 | 20 |
| „ Reported Dirty Dwellings | 67 | 128 |
| „ New Property re Closets, &c. | 83 | 334 |
| „ Old Property re Alterations | 622 | 1055 |
| „ Premises where Nuisances exist | 13207 | 11026 |
| Drains Tested | 308 | 308 |
| Legal Notices Served | 791 | 715 |
| No. of Preliminary Notices sent out to abate Nuisances | 2896 | 2683 |
| No. of Defects reported to Borough Surveyor..... | 131 | 129 |
| No. of Defects reported to Cleansing Department | 643 | 1137 |
| No. of Defects reported to Highways Department | 473 | — |
| Smoke Observations taken | 528 | 544 |
| Visits to Boiler Houses | 22 | 27 |
| Interviews with Owners, Agents, &c., re Property | 2476 | 2468 |
| Visits to School Premises | 430 | 441 |

There were 4,982 defects found and dealt with. In connection with these, 2,896 informal notices were sent to occupiers and owners, and in others verbal notices were given. In most cases these were sufficient to secure the necessary work being carried out. It was found necessary to report to the Health Committee and secure authority to serve Statutory Notice with regard to 843 defects, and 783 legal notices were served. All defects brought forward from the previous year were followed up and remedied. At the close of the year there were 793 defects of various kinds on the books of the Department.

The following are the particulars of the Statutory Notices served:—

Legal Notices served during the year.—Public Health Act, 1875: Sections 91-94. There were 587 served relating to—

| | |
|---|-----|
| Defective Water Closets, Tippers, &c..... | 125 |
| „ Drains, &c. | 49 |
| „ Yard Flags | 88 |
| „ Troughs, Spouts, &c. | 121 |
| Damp House Walls, Defective Roofs, &c. | 158 |
| Dust Bins | 43 |
| Refuse | 5 |
| Dirty Houses | 1 |
| Defective Sinks | 24 |
| Others | 25 |

The number of defects for which notices have been served was 639, but in some cases more than one defect was put on one notice.

Burnley Corporation Act, 1908, Section 85.

„ „ 1921, „ 50.

„ „ 1925, „ 67.

Notices served relating to Ashbins 126

Towns Improvement Clauses Act, 1847, Section 74; Public Health Act, 1875, Section 160, relating to—

Defective eaves troughs, rain pipes, etc.—Notices served, 38.

Public Health Act, 1875, Sections 91 to 94.

Notices relating to Black Smoke..... 8

Burnley Borough Improvement Act, 1883, Section 42.

Relating to Ashpit and Closet Accommodation ... 9

„ Water Supply 9

Burnley Corporation Act, 1925, Section 53.

Notices relating to blocked drains 6

SMOKE ABATEMENT.

During the year observations of 30 minutes' duration were taken on 133 chimneys, the total number of observations being 528. No black smoke was emitted during 463 of these; of the remainder, eight exceeded the limit fixed by the Health Committee beyond which proceedings are instituted, i.e., five

minutes in the half-hour. In these cases notices were served. The amount of black smoke in the other cases was:—on 39 occasions, two minutes or less, $2\frac{1}{2}$ minutes on seven, 3 minutes on four, $3\frac{1}{2}$ minutes on two, four minutes on two, and $4\frac{1}{2}$ minutes on one.

After service of statutory notices 38 observations were taken of the chimneys involved. During 26 of these there was no black smoke, in the others the amount varied from $\frac{1}{2}$ to $4\frac{1}{2}$ minutes, and in one case $8\frac{1}{2}$ minutes; in the latter, as more than six months had elapsed, a further notice was served. It may thus be inferred that the working conditions were such as to make the prevention of black smoke a practical proposition, given proper attention and the necessary knowledge.

Appended is a summary of results of observations, and action taken.

| No. of Chimneys observed. | No. of observations taken. | Average No. of observations taken per chimney. |
|---------------------------|----------------------------|--|
| 133 | 528 half-hourly. | 3.97 |

Result of Observations :—

| | Black. | Moderate. | Light or None. |
|--|--------|-----------|----------------|
| Total amount of Smoke in Minutes | 160 | 1198.5 | 14481.5 |
| Average amount of Smoke in Minutes ... | 0.30 | 2.27 | 27.43 |

The following is a statement of the action taken under Sections 91-94 of the Public Health Act, 1875 (paragraph 9), relating to the emission of black smoke:—

| | |
|----------------------------|----|
| Letter Notices sent | 38 |
| Legal Notices served | 8 |
| Legal Proceedings | — |

COMMON LODGING HOUSES.—The registration and supervision of the Common Lodging Houses are under the direction of the Health Committee. Bye-laws affecting these places received the sanction of the Local Government Board in 1907.

These are:—

- (1) For fixing and from time to time varying the number of lodgers who may be received into a common lodging house, and for the separation of the sexes therein ; and
- (2) For the giving of notices and the taking of precautions in case of any infectious disease ; and
- (3) Generally for the well-ordering of such houses.

List of Common Lodging Houses at the beginning of the year.

| | Accommodation. | Males. | Females. |
|---------------------|----------------|--------|----------|
| Kay Street..... | 215 | 215 | — |
| Barracks Road | 146 | 146 | — |

The Lodging Houses have been periodically visited.

Number of visits 84 Defects found 7

These defects were:—

Not Limewashed 1 Other Defects 3
W.C. Defects 3

In addition to these Common Lodging Houses there are a number of others to which 29 visits have been paid. Generally speaking, these houses are not satisfactory on account of the class of people who live in them, the want of supervision, and the construction of the buildings. Six of these places have been Public Houses, the majority being at the time they were licensed of the lowest class.

The Local Act of 1921 gave the Local Sanitary Authority power to grant yearly licenses for the keeping of Common Lodging Houses. Last year two licences were renewed.

HOUSES LET IN LODGINGS.—There are 40 houses in Burnley registered as Houses Let in Lodgings.

Bye-laws have been made, and provide:—

- (1) For fixing and from time to time varying the number of persons who may occupy a house or part of a house which is let in lodgings or occupied by members of more than one family, and for the separation of the sexes in a house so let or occupied.

- (2) For the registration of houses so let or occupied.
- (3) For the inspection of such houses.
- (4) For enforcing drainage and for the provision of privy accommodation for such houses, and for promoting cleanliness and ventilation in such houses.
- (5) For cleansing and limewashing at stated times of the premises, and for the paving of the courts and courtyards thereof.
- (6) For the giving of notices and the taking of precautions in case of any infectious disease.

The 40 houses mentioned are divided into 153 separate tenements, which are for the most part let furnished. These tenements have one or two rooms :

| | |
|------------------|-----|
| One-roomed | 136 |
| Two-roomed | 17 |
| | — |
| | 153 |
| | — |

In the summary of work done by the Sanitary Inspectors it will be seen that 747 visits have been paid to the furnished rooms during the year, and the report from the Inspectors is that they are fairly satisfactory. The common complaint is that the tenants, if not watched, allow the rooms to get dirty. 23 verbal and 17 written notices were given.

| | |
|--|-----|
| Total visits to 153 Houses Let in Lodgings | 747 |
| Total defects found..... | 57 |
| Defects brought forward from 1927 | 2 |
| Total defects remedied | 58 |

The 57 defects found were as follows:—

| | |
|--------------------------------|----|
| Dirty Floors, Walls, etc. | 1 |
| Limewashing overdue | 36 |
| Defective W.C.'s | 9 |
| Sundry Defects | 11 |
| | — |
| Total | 57 |
| | — |

Occupants.—On making an informal census at the end of the year, it was estimated that 365 persons occupied the furnished rooms:—

| | |
|------------------------|-----|
| Adults:—Males | 125 |
| Females | 136 |
| Infants under 1 | 10 |
| Children 1 to 12 | 94 |
| | — |
| Total | 365 |
| | — |

In the above list every person over 12 is counted as an adult in accordance with the Bye-law 7, which says that—

“ No lodger shall suffer any person above the age of 12 to occupy as a sleeping apartment any room let to such lodger if the room is occupied by more than one person above that age and of the opposite sex.”

OFFENSIVE TRADES.—The Offensive Trades, as laid down in Section 112 of the Public Health Act of 1875, are:—

| | | |
|---------------|--------------|----------------|
| Blood Boiler. | Fellmonger. | Tallow Melter. |
| Bone Boiler. | Soap Boiler. | Tripe Boiler. |

In addition to these trades, which require the permission of the Local Authority before they can be practised, the Burnley Act of 1871 requires that Marine Store Dealers shall possess a licence from the Local Authority to carry on their business.

In 1911 the following Offensive Trades (in accordance with Section 51 of the Public Health Acts Amendment Act, 1907) were added to the above list:—

| | | |
|--------------|---------|-------------|
| Gut Scraper. | Tanner. | Fish Fryer. |
|--------------|---------|-------------|

and Manufacturers of Manure from Fish Offal, Blood or other putrescible animal matter.

The following is a list of the Offensive Trades carried on in Burnley:—

| | |
|---------------------|-----|
| Marine Stores | 5 |
| Tripe Boilers..... | 3 |
| Fat Melters | 3 |
| Gut Scrapers | 2 |
| Bone Boiler | 1 |
| Fellmonger | 1 |
| Tanner | 1 |
| Knacker | 1 |
| Fish Fryers | 132 |
| | — |
| Total | 149 |
| | — |

The premises where these trades are carried on are under constant supervision, in some cases quite necessarily ; 5 legal notices have been served, and 15 letters sent, and constant verbal reminders have had to be given in one or two cases. The result is that these trades are carried on with, as a rule, very little nuisance to the neighbourhood in which they are situate.

Nuisances in trades of this kind can usually be prevented by suitable premises properly cleansed and ventilated; noxious fumes should be carried in to a chimney of suitable height.

The Offensive Trades have been well supervised by this Department, 552 visits having been paid by various members of the Sanitary Staff.

There are no Bye-laws relating to Offensive Trades.

Rag Flock Act.—No action has had to be taken under this Act.

Stable Middens.—There are 230 stable middens in Burnley, and nearly the whole of these are emptied at least once a week.

3,193 visits were paid to manure pits by the Inspectors, 30 preliminary notices were sent, and 28 verbal notices were given, referring to 56 defects, principally accumulations of manure, dirty yards and drains. In most cases the nuisance was at once abated; in 5 cases it was necessary to serve legal notices. In one case legal proceedings had to be taken for failing to remove manure. The fines and costs amounted to £2 9s. 0d. The manure pits were sprayed on 1087 occasions with the object of destroying the larvæ of flies.

INSPECTION OF FACTORIES AND WORKSHOPS.

Under the Factories and Workshops Acts, 1901 and 1907, it is the duty of the Local Sanitary Authority to enforce the sanitary provisions relating to these places.

Number of factories and workshops on register at end of year:—

| | |
|--|-------|
| Factories | 357 |
| Bakehouses | 320 |
| Milliners and Dressmakers..... | 214 |
| Woodworkers | 45 |
| Tailors, Shoemakers and Cloggers | 174 |
| Metal Workers | 48 |
| Sundries | 85 |
| | — |
| Total | 1,243 |
| | — |

This list is of necessity an approximate one, as the figures relating to workshops and bakehouses are constantly changing, especially the class of workshops which includes dressmakers. The number of bakehouses is also constantly changing, for a bakehouse must be registered if it is a place "in

which are baked bread, biscuits or confectionery from the baking or selling of which a profit is derived." This definition includes in Burnley a great number of small grocers' and confectioners' shops.

Factory Inspection—

| | |
|-----------------------------|-----|
| Number of Inspections | 168 |
| Defects found | 33 |
| Legal Notices served | 2 |
| Letter Notices sent | 17 |
| Verbal Notices | 23 |

List of Defects—

| | |
|--|----|
| Water Closets and Urinal defects | 6 |
| Dirty Closets | 1 |
| Defective Drains | 11 |
| Trough and Spouts | 7 |
| Others | 8 |
| | — |
| Total | 33 |
| | — |

Workshops (other than Bakehouses)—

| | |
|----------------------------|-----|
| Inspections | 564 |
| Legal Notices served | 4 |
| Letter Notices sent | 23 |
| Verbal Notices given | 48 |

Defects Found—

| | |
|----------------------------------|----|
| Defective Water Closets..... | 11 |
| Dirty Workshops | 11 |
| Defective Drains | 21 |
| Defective Eaves and Spouts | 9 |
| Defective Ashpits and Bins | 6 |
| Other Defects | 17 |
| | — |
| Total | 75 |
| | — |

The following is a copy of a table called for by the Home Office:—

Annual Report of the Medical Officer of Health for the year 1928, for the County Borough of Burnley.

On the administration of the Factory and Workshop Act, 1901, in connection with Factories, Workshops and Workplaces.

I.—Inspection of Factories, Workshops and Workplaces, including Inspections made by Sanitary Inspectors.

| Premises. (1) | Number of | | |
|-----------------------------------|--------------------|------------------------|-----------------------------|
| | Inspections (2) | Written Notices (3) | Occupiers prosecuted (4) |
| Factories | 168 | 19 | — |
| (Including Factory Laundries) | | | |
| Workshops | 1,517 | 53 | — |
| (Including Workshop Laundries) | | | |
| Workplaces | — | — | — |
| (Other than Outworkers' premises) | | | |
| Total | 1,685 | 72 | — |

2.—Defects found in Factories, Workshops and Workplaces.

| Particulars. | Number of Defects. | | | Number of Prosecutions |
|---|--------------------|-----------|-----------------------------|------------------------|
| | Found. | Remedied. | Referred to H.M. Inspector. | |
| (1) | (2) | (3) | (4) | (5) |
| Nuisances under the Public Health Acts:—* | | | | |
| Want of cleanliness | 14 | 12 | — | — |
| Want of ventilation | — | — | — | — |
| Overcrowding | — | — | — | — |
| Want of drainage of floors | — | — | — | — |
| Other nuisances | 113 | 110 | — | — |
| Sanitary accommodation { insufficient | — | — | — | — |
| { unsuitable or defective | 22 | 22 | — | — |
| { not separate for sexes | — | — | — | — |
| Offences under the Factory and Workshops Acts:— | | | | |
| Illegal occupation of underground bakehouse (s. 101) | 1 | 1 | — | — |
| Other offences | 140 | 135 | — | — |
| (Excluding offences relating to outwork and offences under the Sections mentioned in the Schedule to the Ministry of Health (Factories and Workshops Transfer of Powers) Order, 1921) | | | | |
| Total | 290 | 280 | — | — |

*Including those specified in Sections 2, 3, 7 and 8 of the Factory and Workshop Act, 1901, as remediable under the Public Health Acts.

CANAL BOATS ACTS, 1877 and 1884.

Report of the Burnley Urban Sanitary (Registration) Authority on the Administration of the Canal Boats Acts during the year 1928.

The Inspector under the Acts is Mr. Richard Jump, the Sanitary Inspector, whose office is at 27, St. James's Street, Burnley, and whose salary is inclusive and unapportioned.

42 boats were inspected during the year, against 107 in 1927.

No boats have been added to or removed from the Register during the year. The number on the Register is now 24.

Three boats did not comply with the Acts and Regulations. Two were without the requisite Certificates of Registration and one had not been painted during the preceding three years. The two former are now in order, and the latter is promised for an early date.

Two children of school age were found on the boats.

No cases of Infectious Disease have occurred on the boats, and no boats have been detained for cleansing or disinfection.

The Inspector again acknowledges the courtesy of the people with whom his duties brought him in contact, and the readiness with which information was supplied.

The Statistical Statement is appended.

Canal Boats Acts, 1877 and 1884.

STATISTICAL SUPPLEMENT to the (1928) Annual Report of the Burnley Sanitary (Registration) Authority.

Have you Hospital Accommodation for any case of Infectious Disease met with on a Canal Boat in your Sanitary District? Yes.

Is Inspector's remuneration inclusive with pay for other duties? Yes. If special, how much?

| | | | | | | |
|-------|---|-----|-----|-----|-----|-----|
| 0 | Number of boats added to Register in 1928 | ... | ... | ... | ... | ... |
| 0 | Number re-registered owing to structural alterations | ... | ... | ... | ... | ... |
| 0 | Number re-registered owing to other reasons | ... | ... | ... | ... | ... |
| <hr/> | | | | | | |
| 146 | Total number registered to 31st December, 1928 | ... | ... | ... | ... | ... |
| 122 | Total number of registrations cancelled | ... | ... | ... | ... | ... |
| <hr/> | | | | | | |
| 24 | Actual number of boats on register at 31st December, 1928 | ... | ... | ... | ... | ... |

| | | | | | | | |
|-------|--|-----|-----|-----|-----|-----|-----|
| 42 | Number of boats inspected in 1928 | ... | ... | ... | ... | ... | ... |
| 39 | Number of boats conforming to the Acts and Regulations | ... | ... | ... | ... | ... | ... |
| 3 | Number of boats infringing the Acts and Regulations | ... | ... | ... | ... | ... | ... |
| <hr/> | | | | | | | |
| | Total number for which the cabins were registered | ... | ... | ... | ... | ... | 195 |
| | Total number occupying Cabins | ... | ... | ... | ... | ... | 94 |
| <hr/> | | | | | | | |
| | Details of occupation: Male adults | ... | ... | ... | ... | ... | 79 |
| | Female Adults | ... | ... | ... | ... | ... | 12 |
| | Children of School Age | ... | ... | ... | ... | ... | 2 |
| | Children under School Age | ... | ... | ... | ... | ... | 1 |
| <hr/> | | | | | | | |
| | Total | ... | ... | ... | ... | ... | 94 |
| <hr/> | | | | | | | |

| Number of Cases met with. | Details shewing numbers infringing in respect to— | Number of Cases remedied. |
|------------------------------|---|------------------------------|
| ..... | Registration ... .. | ..... |
| ..... | Notification of change of Master ... .. | ..... |
| 2 | Absence of Certificate | 2 |
| ..... | Certificate not identifying owner with boat ... .. | ..... |
| ..... | Marking ... .. | ..... |
| ..... | Overcrowding ... .. | ..... |
| ..... | Partition (Reg. 8. b. 11) ... .. | ..... |
| ..... | Females over 12 improperly occupying ... .. | ..... |
| ..... | Cleanliness ... .. | ..... |
| 1 | Painting | 0 |
| ..... | Ventilation ... .. | ..... |
| ..... | Dilapidation ... .. | ..... |
| ..... | Removal of Bilge Water ... .. | ..... |
| ..... | Without Pump ... .. | ..... |
| ..... | Refusal of admittance to Inspector ... .. | ..... |
| ..... | No proper water vessel ... .. | ..... |
| ..... | Without requisite double bulkheads ... .. | ..... |
| ..... | Non-notification of Infectious Disease ... .. | ..... |
| ..... | Number of boats detained for Cleansing (Not for I/D) ... .. | ..... |
| <hr/> | | |
| 3 | | 2 |
| <hr/> | | |
| | Number of Legal Proceedings taken ... .. | ..... |
| | Number of Printed Notice Forms issued | 3 |
| | Number of Notices attended to | 2 |
| | Number still corresponding about | 1 |

General Inspection of Working Class Dwellings.—The more unsatisfactory of these dwellings have been frequently visited. 1,647 visits have been paid to back-to-back and single houses, 747 to furnished rooms, and 12,482 to other dwellings. 16 were suspected of being overcrowded, and 6 were found to be actually in that state when visited ; no legal notices were served.

Dirty Houses.—50 were suspected of being dirty, but only 20 were found to be so on inspection. In one case it was found necessary to serve a legal notice to get the nuisance remedied.

Water Supply.

The water supply is good and constant. With the exception of about 7 farms and a few houses on the outskirts, all houses are provided with town's water.

Sanitary Accommodation.

There are 11,749 clean water closets, 18,309 waste water closets, 477 latrines, and 230 privies. The privies are mostly in outlying cottages and farm houses. Approximately 24,406 houses have their own sanitary conveniences, and 2,322 join with others. Ashpits, estimated number, 10,817, and ash bins, 15,178.

Although the town is almost free from privies, there is a very great sanitary drawback in the 18,309 waste water closets. These are very unsatisfactory, the uncleanness of the pans, the dirty water used for flushing, the accumulation of slime in and about the tipper, and the frequency of blockages causing serious nuisance ; and the smell from them is at all times offensive.

Inspection of Bakeries—

| | |
|-----------------------------|-----|
| Number on Register | 320 |
| Number of Visits paid | 953 |
| Verbal Notices | 157 |
| Letter Notices | 21 |
| Legal Notices | 5 |

Details of Defects found—

| | |
|-------------------------------|-----|
| Required Limewashing | 140 |
| Defective Water Closets | 5 |
| „ Drains | 10 |
| „ Ashpits and Bins | 7 |
| „ Spouts and Eaves | 1 |
| Dirty Condition | 2 |
| W.C. in Bakehouse | 1 |
| Other Defects | 16 |
| Total | 182 |

It will be noted that more than three-quarters of the defects are classified as "Required Limewashing." The Factory and Workshop Act, 1901, requires that the "limewashing shall be renewed once at least in every six months." Many occupiers fail to realize this obligation, and only limewash when the omission is pointed out by the Inspector, and in spite of warnings do not comply with the requirements of the Section. It may be necessary in the future, to take proceedings without notice in the case of occupiers who habitually neglect to carry out the statutory requirement.

The condition of the bakehouses is, on the whole, very satisfactory, a high standard of cleanliness is observed, and in only two cases has any fault been found in connection with the ordinary management, apart from the limewashing already referred to.

Fish and Chip Shops.—There are 132 of these in the town. The Sanitary Inspectors have paid 475 visits to these during the year. The general condition of these is satisfactory, and a satisfactory standard of cleanliness is maintained.

58 defects were noted during the year. 12 of these had reference to the cleanliness of the premises, 9 to drainage, and 15 to water closet defects, 4 to refuse, the rest being concerned with defects in structure.

Ice Cream Shops.—It is impossible to state the number of these, as they are continuously changing. The business is naturally to some extent seasonal, and many only run the business for a few weeks at a time.

177 visits have been paid to these places, and most of the people in the trade have realised the necessity of being scrupulously clean in the manufacture and storage of such a commodity as ice-cream. 6 defects were noted; of these two had reference to the cleanliness of the premises; the rest were structural defects.

RATS AND MICE (DESTRUCTION) ACT, 1919.

The Sanitary Inspectors, in the routine visits to premises, make enquiries as to the presence of Rats or Mice, and where necessary offer suggestions.

Frequent visits have been paid by the Officer under the Act to Piggeries, Poultry Runs, Allotments, Refuse Tips, etc., with reference to the prevalence of Rats.

73 applications were received at the office and assistance in the form of poisons, etc., was given. In addition the Officer paid 43 visits to places about which complaints had been received. No notices have been served.

Section 4.

Housing.

Houses.—These are for the most part substantially built, and the nature of them is as follows:—

| | |
|--------------------------------------|--------------------|
| Vans and Sheds | 10 |
| One-roomed houses | 123 |
| Back-to-back and Single Houses | 2,103 |
| Other Houses | 24,492 |
| Total | <hr/> 26,728 <hr/> |

Inspection.—Houses inspected and recorded:—

| | |
|--------------------------|--------------------|
| To the end of 1927 | 13,391 |
| During 1928 | 117 |
| Total | <hr/> 13,508 <hr/> |

During 1928, 1,323 re-inspections were made of the above houses.

In connection with defects found 1,554 re-visits were also made by the Inspector.

General action taken as regards unfit houses :—

218 houses rendered fit by informal action and notices under Section 94 of the Public Health Act, 1875.

453 rendered fit by informal action and notices under Section 3 (1) of the Housing Act.

As a general rule there is no great difficulty found in remedying any unfitness.

HOUSING STATISTICS.

YEAR ENDED 31st DECEMBER, 1928.

NUMBER OF NEW HOUSES ERECTED DURING THE YEAR.

| | |
|--|-----|
| (a) Total | 263 |
| (b) With State Assistance under the Housing Acts:— | |
| (1) By the Local Authority | 155 |
| (2) By other Bodies or Persons | 86 |

1. UNFIT DWELLING-HOUSES.

(I.) INSPECTION:

| | |
|--|-------|
| (1) Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts) | 1,736 |
| (2) Number of dwelling-houses which were inspected and recorded under the Housing Consolidated Regulations, 1925 | 1,440 |
| (3) Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation | None. |
| (4) Number of dwelling-houses (exclusive of those referred to under the preceding sub-head) found not to be in all respects reasonably fit for human habitation | 695 |

(II.) REMEDY OF DEFECTS WITHOUT SERVICE OF FORMAL NOTICES:

| | |
|---|-----|
| Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their officers ... | 516 |
|---|-----|

III.) ACTION UNDER STATUTORY POWERS:

A. Proceedings under Section 3 of the Housing Act, 1925:

| | |
|---|-------|
| (1) Number of dwelling-houses in respect of which notices were served requiring repairs | 121 |
| (2) Number of dwelling-houses which were rendered fit after service of formal notices:— | |
| (a) By owners | 93 |
| (b) By Local Authority, in default of owners | None. |
| (3) Number of dwelling-houses in respect of which Closing Orders became operative in pursuance of declarations by owners of intention to close | None. |

B. Proceedings under Public Health Acts:

| | |
|---|-------|
| (1) Number of dwelling-houses in respect of which notices were served requiring defects to be remedied | 49 |
| (2) Number of dwelling-houses in which defects were remedied after service of formal notices:— | |
| (a) By owners | 34 |
| (b) By Local Authority in default of owners | None. |

C. Proceedings under Sections 11, 14 and 15 of the Housing Act, 1925:—

| | |
|---|-------|
| (1) Number of representations made with a view to the making of Closing Orders | None. |
| (2) Number of dwelling-houses in respect of which Closing Orders were made | None. |
| (3) Number of dwelling-houses in respect of which Closing Orders were determined, the dwelling-houses having been rendered fit | None. |
| (4) Number of dwelling-houses in respect of which Demolition Orders were made | None. |
| (5) Number of dwelling-houses demolished in pursuance of Demolition Orders | None. |

Section 5.

Inspection and Supervision of Food.

Mr. Kenyon, M.R.C.V.S., the Veterinary Inspector, reports as follows:—

TUBERCULOSIS ORDER OF 1925.**Milk Supply.**

During the year 167 samples of mixed and unmixed milk have been collected from farms within and without the Borough.

The result of the bacteriological examination of these milks shows that only eight of them proved positive, this being equal to a percentage of 4·8.

This, I consider, is most satisfactory when one takes into consideration the number of samples examined and the amount of milk distributed within the Borough.

I feel sure that the purity of the milk, if put to the test, would compare very favourably or be better than many of the towns in this country.

The procedure in the case of a cow housed within the Borough being suspected of producing milk containing Tubercle Bacilli is that a sample of milk is collected and the animal isolated from the rest of the herd until the result of such sample is reported upon. With regard to a cow housed outside the Borough, if the examination reveals Tubercle Bacilli, the Medical Officer of the district in which the farm is situate is notified.

All milk and cattle have been dealt with under the above Order.

Appended is a summary of the examinations made during the year with reference to mixed and unmixed milks:—

(1) Collected in the town from farms within the Borough:

| | | | | | | | | | | Percentage of |
|--------------|-----|----------|-----------|-----------|-----------|---|-----|----|-----|------------------|
| | | | | | | | | | | Milks containing |
| | | | | | | | | | | Tubercle Bacilli |
| | | No. of | | | | | | | | |
| | | Samples. | Positive. | Doubtful. | Negative. | | | | | |
| Mixed Milk | ... | 36 | ... | 4 | ... | 2 | ... | 30 | ... | 11·1 |
| Unmixed Milk | | 8 | ... | 2 | ... | — | ... | 6 | ... | 25·0 |

(2) Collected in the town from farms outside the Borough:

| | No. of Samples. | Positive. | Doubtful. | Negative. | Percentage of Milks containing Tubercle Bacilli |
|----------------|--------------------|-----------|-----------|-----------|---|
| Mixed Milk ... | 121 ... | 2 ... | 1 ... | 118 ... | 1.6 |

During the year only six cattle have been condemned and destroyed under the Tuberculosis Order:—One cow for producing milk containing Tubercle Bacilli, one cow for Tuberculosis of the Udder, three for Tuberculous Emaciation and one for Chronic Cough and showing definite clinical signs of Tuberculosis.

The following is a summary of the market value, total compensation paid and salvage after deduction of expenses incurred in and for purpose of salvage.

| Market Value. | Total Compensation. | Salvage after deducting Exp's. |
|---------------|---------------------|--------------------------------|
| £62/10/0 ... | £44/5/0 ... | £22/0/0 |

The actual amount paid out by the Corporation for compensation was £22 5s. 0d.

MILK AND DAIRIES AMENDMENT ACT OF 1922.

During the year 90 persons have been registered as Wholesale and Retail Purveyors of Milk. This brings up the total number of persons registered for the sale of milk within the Borough to 298.

Appended is a list of Wholesale and Retail Purveyors of Milk licensed this year:—

| | | | |
|---------------------------|-------------------------------|-----|----|
| Milk produced outside and | Wholesaled within the Borough | ... | 3 |
| " " " | Retailed | " " | 12 |
| " " inside and | Wholesaled | " " | 15 |
| " " " | Retailed | " " | 60 |

The total number of persons retailing milk in the shops within the Borough at the end of the year was 75.

244 visits were made to the above shops, and on most occasions, they were found to be very clean the tenants exercising every care to prevent contamination of the milk.

14 notices have been served for dirty covers and not having the milk and measures properly covered.

On re-visiting the premises the notices had been complied with in all cases.

MILK AND DAIRIES ORDER, 1926.

During the year 16 persons residing within the Borough have been registered as Cowkeepers.

| | |
|---|------|
| Number of Farms | 41 |
| „ Visits to the Farms | 72 |
| „ Cattle Examined | 1096 |
| „ Visits to the Dairies | 6 |
| „ Milk Shops, including New Shops | 188 |
| „ Visits to the Milk Shops | 244 |
| „ Retail and Wholesale Purveyors | 298 |

INSPECTION OF DAIRIES.

There are two Dairies within the Borough to which 6 visits have been made, and on each visit the sanitary condition of these premises was satisfactory.

INSPECTION OF COWSHEDS.

There are 41 Farms within the Borough, 39 of which are used for the housing of cattle, and the remaining 2 Farms for the rearing of either pigs or poultry.

72 visits have been made to the above premises and 1,096 cattle inspected.

DISEASED UDDERS OF CATTLE ON THE FARMS.

| | Tubercle | Atrophy | Hypertrophy. | Induration. | Total. |
|------|----------|---------|--------------|-------------|--------|
| 1928 | 1 | — | 2 | 5 | 8 |
| 1927 | 1 | 1 | — | 2 | 4 |

There are 67 cowsheds premises on the farms, and the following is a report on the sanitary condition of them:—

| LIGHT. | | |
|--------------|----|--|
| Good | 62 | |
| Fair | 4 | |
| Bad | 1 | |
| VENTILATION. | | |
| Good | 65 | |
| Fair | 1 | |
| Bad | 1 | |
| DRAINS. | | |
| Good | 66 | |
| Bad | 1 | |
| FLOORS. | | |
| Good | 39 | |
| Fair | 27 | |
| Bad | 1 | |
| AIR SPACE. | | |
| Good | 63 | |
| Fair | 3 | |
| Bad | 1 | |

The general cleanliness of the cowshed premises and cattle has not been up to the usual standard, many notices having been served warning the farmers that if the conditions were not improved it would be necessary to take other means to enforce the Regulations. I am pleased to report that in all cases the notices were complied with.

The milk vessels, utensils, water troughs, stools, milk floats, etc., on the majority of the farms have been kept very clean, but in just a few instances notices were served for dirty stools, water troughs and milk floats. These notices were also complied with.

The farmers and retail purveyors of milk are now recognising the importance of collecting and purveying milk in a cleanly manner, as they find that by preventing dust, dirt or flies from entering the milk there is much less danger of disease being carried through the milk and, apart from that, it gives better satisfaction to the customers, for the milk keeps sweet a much longer time in the homes.

All the farmers have erected a building for the storage of the milk and milk vessels only. On inspecting these places I found them very clean.

The farm at Causeway End is still in a very insanitary condition, as the light, drains, floors, ventilation and air space are very bad; also the manure pit and tank are too near the cowshed premises. The above premises are now the property of the Local Authority and I am given to understand that the tenant has had notice to give up the buildings and land, such notice to terminate about February next year.

CONTAMINATION OF MILK.

A special report on this subject will be found in the section dealing with the Public Health Laboratory.

PUBLIC HEALTH (MEAT) REGULATIONS, 1924.

I have to report that during the year the above Regulations have been carried out in a fairly satisfactory manner, for only in a few instances has it been necessary to serve notices for dirty cellar, repairs to cellar floors, to provide a bin for the storage of sweepings, to clean and put the refrigerator in good repair, not to wash in the place where the meat is stored, to provide clean meat sheets, to clean the motor waggon, not to store sweepings or sawdust in the shop and to provide side curtains for the meat float. In all cases the notices were complied with.

In one case a notice was served to discontinue storing meat in the refrigerator owing to it being in a bad state of repair. The owner immediately removed this old refrigerator and replaced it with a new one.

The stalls on the Market have been well protected with sheets round the sides, back and top to prevent, as far as possible, contamination of any meat exposed for sale. Only in four instances was it necessary to serve notices for the sides of the stalls not being properly protected. These notices were complied with.

Owing to there being no requests for the marking of meat, no arrangements have been made for inspection at the time of slaughter.

All meat condemned is removed at once in a covered cart to the Cleansing Department and destroyed.

TRIPERIES AND TRIPE SHOPS.

Owing to the above coming under the Meat Regulations, the Local Authority has power over the general cleanliness and purification of these premises.

There have been 149 visits paid to these shops, etc., and on each visit the premises were satisfactory, except in one case where a notice was served on the tenant, and he immediately put the shop in a satisfactory state.

The food stuffs examined were, in all cases, sound, and the tubs, tanks, boxes, tins and other utensils were clean.

PUBLIC ABATTOIRS.

The management of the Public Abattoirs is under the supervision of the Markets Committee.

A few improvements are being carried out on the above premises and will be completed at an early date.

The slaughter houses, lairages, walls, floors, yard and all utensils have been kept very clean and the premises disinfected each week.

There are no private slaughterhouses within the Borough, all animals being killed at the Public Abattoirs.

MEAT INSPECTION.

TABLE I.

NUMBER OF ANIMALS SLAUGHTERED AT THE ABATTOIRS.

| | Beasts. | Sheep. | Lambs. | Calves. | Pigs. | Totals. |
|---------------------------|---------|--------|--------|---------|-------|---------|
| 1928 | 5,878 | 3,108 | 36,169 | 472 | 5,071 | 50,698 |
| 1927 | 5,898 | 3,615 | 35,941 | 405 | 4,437 | 50,296 |

TABLE II.

NUMBER OF ANIMALS SPECIALLY EXAMINED.

| | Beasts. | Sheep. | Lambs. | Calves. | Pigs. | Totals. |
|---------------------------|---------|--------|--------|---------|-------|---------|
| 1928 | 18 | 14 | 9 | 8 | 84 | 133 |
| 1927 | 40 | 18 | 20 | 14 | 70 | 162 |

TABLE III.

RESULT OF SPECIAL EXAMINATION—PASSED.

| | Beasts. | Sheep. | Lambs. | Calves. | Pigs. | Totals. |
|---------------------------|---------|--------|--------|---------|-------|---------|
| 1928 | 13 | 4 | 2 | 2 | 74 | 95 |
| 1927 | 14 | 10 | 10 | 7 | 54 | 95 |

TABLE IV.
RESULT OF SPECIAL EXAMINATION—CONDEMNED.

| | Beasts. | Sheep. | Lambs. | Calves. | Pigs. | Totals. |
|-------------|---------|--------|--------|---------|-------|---------|
| 1928 | 5 | 10 | 7 | 6 | 10 | 38 |
| 1927 | 26 | 8 | 10 | 7 | 16 | 67 |

TABLE V.
ORIGIN OF CONDEMNED CARCASSES.

| | | | Local | | Leeds | Gisburn | Southwaite. | Hellifield | Preston |
|------|--------|-------|-------|--------|-------|---------|-------------|------------|---------|
| | Beasts | Sheep | Pigs | Calves | Sheep | Lamb | Sheep | Sheep | Pig |
| 1928 | 5 | 1 | 9 | 6 | 2 | 1 | 1 | 1 | 1 |

| Manchester. | Skipton. | | Lazenby. | Ulverston. |
|-------------|----------|------|----------|------------|
| Lambs | Sheep | Lamb | Sheep | Lambs |
| 2 | 4 | 1 | 1 | 3 |

TABLE VI.
CAUSES OF REJECTION.

| 1928. | Beasts. | Sheep. | Lambs. | Calves. | Pigs. | Totals. |
|--------------------------|---------|--------|--------|---------|-------|---------|
| Jaundice | — | — | — | — | 2 | 2 |
| Wasted and Dropsical ... | — | 5 | — | — | — | 5 |
| Tuberculosis | 4 | — | — | — | 5 | 9 |
| Suffocated | — | 4 | 6 | — | — | 10 |
| Enteritis | 1 | — | — | 1 | 1 | 3 |
| Immature | — | — | — | 2 | — | 2 |
| Accident | — | 1 | 1 | — | — | 2 |
| Epilepsy | — | — | — | 1 | — | 1 |
| Septic Pneumonia | — | — | — | 1 | 2 | 3 |
| Peritonitis | — | — | — | 1 | — | 1 |
| Totals—1928 | 5 | 10 | 7 | 6 | 10 | 38 |
| Totals—1927 | 26 | 8 | 10 | 7 | 16 | 67 |

TABLE VII.
WEIGHT OF CARCASSES CONDEMNED.

| | | | Beasts. | Sheep. | Lambs. | Calves. | Pigs. | Totals. |
|------|-----|-----|---------|--------|--------|---------|-------|---------|
| | | | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. |
| 1928 | ... | ... | 2,660 | 401 | 226 | 279 | 1,048 | 4,614 |
| 1927 | ... | ... | 13,384 | 335 | 271 | 276 | 1,611 | 15,877 |

TABLE VIII.
TUBERCULOUS CARCASSES EXAMINED AND REJECTED.

| | | | Cows. | | Heifers | | Bulls. | | Bullocks | | Calves. | | Sheep. | | Pigs. | | Totals. | |
|------|-----|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | | Examined | Rejected | Examined | Rejected | Examined | Rejected | Examined | Rejected | Examined | Rejected | Examined | Rejected | Examined | Rejected | Examined | Rejected |
| 1928 | ... | ... | 24 | 3 | 4 | — | 3 | — | 14 | 1 | — | — | — | — | 5 | 5 | 50 | 9 |
| 1927 | ... | ... | 35 | 16 | 5 | 4 | 2 | — | 12 | 3 | — | — | — | — | 3 | 3 | 57 | 26 |

The above animals which were rejected, and the odds of the animals passed, were removed to the Cleansing Department for destruction.

LIST OF FOOD STUFFS EXAMINED INSIDE AND OUTSIDE THE ABATTOIRS.

1928. Jan. 9th—One hind quarter of beef, weighing 150 lbs.
 Jan. 31st—Two fore quarters of beef, weighing 240 lbs.
 Feb. 6th—Two fore quarters of mutton, weighing 20 lbs.
 Feb. 14th—Two fore quarters of beef, weighing 320 lbs.
 Feb. 18th—Two fore quarters of beef, weighing 270 lbs.
 Feb. 21st—One fore quarter of pork, weighing 32 lbs. and 100 lbs.
 of imported meat.
 Mar. 5th—One fore quarter of beef, weighing 102 lbs., and one tin of
 prawns, 10 lbs.
 Mar. 21st—18 frozen turkeys.
 April 23rd—Two fore quarters of beef, weighing 280 lbs.
 April 24th—Two fore quarters of beef, weighing 320 lbs.
 May 1st—Two fore quarters of beef, weighing 260 lbs.
 May 11th—One tin of corned beef, weighing 9 lbs.
 May 23rd—One fore quarter of mutton, weighing 10 lbs.

July 9th—8 boxes of fillets, weighing 96 lbs.
 July 30th—One buttock of imported meat, weighing 112 lbs.
 Aug. 4th—56 lbs. of chilled beef.
 Aug. 27th—7 boxes of finnon haddock, weighing 98 lbs.
 Aug. 28th—6 boxes of finnon haddock, weighing 84 lbs.
 Sept. 9th—Two hind quarters of beef, weighing 290 lbs.
 Sept. 10th—22 boxes of finnon haddock, weighing 308 lbs.
 Sept. 11th—32 bags of onions, weighing 32 cwts.
 Oct. 19th—28 couples of English rabbits.
 Oct. 20th—17 couples of English rabbits and one fore quarter of beef,
 weighing 120 lbs.
 Oct. 28th—Two fore quarters of mutton, weighing 30 lbs.
 Dec. 3rd—Two fore quarters of beef, weighing 247 lbs.
 Dec. 6th—One barrel of Danish maws.

Total weight of food stuffs condemned and destroyed—3 tons 7 cwts. 32 lbs.

The above articles of food were voluntarily surrendered, and were removed to the Cleansing Department and destroyed.

TABLE IX.

VISITS MADE TO DIFFERENT PREMISES FOR THE INSPECTION OF FOOD STUFFS.

| | |
|---------------------------------------|-------|
| No. of Visits to the Abattoirs..... | 438 |
| „ „ Butchers' Shops | 435 |
| „ „ Fish Shops | 189 |
| „ „ Fruit Shops | 190 |
| „ „ Wholesale Shops | 563 |
| „ „ Hardacre's Yard | 140 |
| „ „ Collinge's Yard | 139 |
| „ „ Harrison's Yard | 139 |
| „ „ Sunter's Yard | 138 |
| „ „ Stockdale's Yard | 139 |
| „ „ Forth's Yard | 124 |
| „ „ Co-operative Society | 51 |
| „ „ Cold Air Stores..... | 95 |
| „ „ Triperies and Tripe Shops | 149 |
| „ „ Meat, Fish and Fruit Market | 20 |
| „ „ Cattle Market | 43 |
| „ „ Knacker's Yard | 13 |
| „ „ Charlton's Yard | 139 |
| | <hr/> |
| | 3144 |
| | <hr/> |

ACCIDENTS.

On November 9th and 13th, 1928, at the request of Mr. Mozley, General Manager of the Corporation Tramways and Omnibuses, I examined respectively two horses which had collided with a tramcar and forwarded a report on the condition of each animal.

CONTAGIOUS DISEASES (ANIMALS) ACT.

Although there have been several outbreaks of Foot and Mouth Disease in the country, the Borough has kept free from this disease during the year.

FOOT AND MOUTH DISEASE (INFECTED AREAS RESTRICTIONS) ORDER OF 1928.

On 2nd January, 1928, owing to a serious outbreak of the above disease in the country, the Borough of Burnley was scheduled under this Order. On January 25th, 1928, the Borough was released from the above restrictions and made a free area.

SWINE FEVER ORDER OF 1908.

On Friday, 29th June, 1928, the above disease was found to exist on premises at Rose Grove, Burnley. The usual notices were served and all necessary precautions taken to prevent the disease from spreading. On 11th October, 1928, the above restrictions were removed.

| | |
|--|-------|
| No. of Store Pigs licensed into the Borough | 209 |
| No. of Fat Pigs licensed into the Borough | 3014 |
| No. of Fat Pigs licensed to the Abattoirs from Local Lairages | 746 |
| | <hr/> |
| Total | 3969 |
| | <hr/> |

The above pigs were found to be very healthy and the cleaning of the sties was satisfactory.

FOREIGN DOGS ORDER.

On December 10th, 1928, one dog was licensed into the Borough. This animal was performing at the Palace and Hippodrome.

POULTRY ACT OF 1912.

Forty-three visits have been made to the Cattle Market to inspect the crates used for the storage of poultry, most of which were found to be in a satisfactory

condition. During the inclement weather the birds were well protected with sheets, and no cases of overcrowding were noticed.

SHEEP SCAB DOUBLE DIPPING ORDER OF 1928.

This Order, made in 1928, provides that all animals (sheep and lambs) shall be dipped in some disinfectant for the prevention of sheep scab at least twice a year.

Under this Order 177 animals were dipped:—

| | July. | | October. | | November. |
|-------------|-------|-----|----------|-----|-----------|
| Ewes | 40 | ... | — | ... | 31 |
| Lambs | — | ... | 11 | ... | 94 |
| Tups | — | ... | — | ... | 1 |
| | — | | — | | — |
| | 40 | ... | 11 | ... | 126 |
| | — | | — | | — |

On October 27th, 1928, Form C. Isolation Notice was served on the occupier of Causeway End Farm, Burnley, for sheep on his premises which had been in contact with sheep affected with scab. All these sheep were doubly dipped and on November 30th, 1928, Form F. was served, withdrawing the Isolation Notice (Form C.).

No cases of sheep scab were reported in the Borough.

PARASITIC MANGE ORDER OF 1911.

On Thursday, May 31st, 1928, I examined a horse, which was found to be affected with mange.

The above Order was immediately put into force and all necessary precautions taken to prevent the disease from spreading.

On Thursday, June 28th, 1928, the horse was discharged and the restrictions removed.

ANIMAL TRANSIT ORDER.

During the year many visits have been made to the Station to examine the trucks which are used for the conveyance of cattle, etc., these being generally found in good repair and clean. The cattle landing premises were also in a satisfactory condition, the pens having been washed down and disinfected several times each week.

INSPECTION OF WHOLESALE CATTLE AND PIG DEALERS' PREMISES.

| | | |
|------------------|----------------------------|------|
| No. of Visits to | Hardacre's Yard | 140 |
| " " | Collinge's Yard | 139 |
| " " | Harrison's Yard | 139 |
| " " | Stockdale's Yard | 139 |
| " " | Sunter's Yard | 138 |
| " " | Forth's Yard | 124 |
| " " | Co-operative Society | 51 |
| " " | Charlton's Yard | 139 |
| Total | | 1009 |

The above premises have been kept in good repair, clean and disinfected each week during the year.

SALE OF FOOD AND DRUGS ACTS, 1875—1907.

The administration of these Acts is carried out by the Public Health Department, the Chief Sanitary Inspector being the officer appointed by the Local Authority, who submits the samples obtained to the Borough Analyst.

LIST OF SAMPLES TAKEN DURING 1928, ALL OF WHICH WERE GENUINE.

| Nature. | | | | Formal. | Informal. | Total. |
|--|-----|-----|-----|---------|-----------|--------|
| Milk | ... | ... | ... | 118 | 8 | 126 |
| Butter | ... | ... | ... | 30 | 11 | 41 |
| Cream | ... | ... | ... | — | 19 | 19 |
| Jam | ... | ... | ... | — | 18 | 18 |
| Diabetic Jam | ... | ... | ... | — | 1 | 1 |
| Sausage | ... | ... | ... | — | 16 | 16 |
| Coffee | ... | ... | ... | — | 13 | 13 |
| Cheese | ... | ... | ... | — | 11 | 11 |
| Condensed Milk | ... | ... | ... | — | 12 | 12 |
| Olive Oil | ... | ... | ... | — | 10 | 10 |
| Cod Liver Oil | ... | ... | ... | — | 8 | 8 |
| Baking Powder | ... | ... | ... | — | 7 | 7 |
| Honey | ... | ... | ... | — | 6 | 6 |
| Shredded Suet | ... | ... | ... | — | 5 | 5 |
| Syrup of Violets and Oil of Almonds | ... | ... | ... | 1 | 6 | 7 |
| Shrimps | ... | ... | ... | — | 4 | 4 |
| Bread | ... | ... | ... | — | 1 | 1 |
| | | | | 149 | 156 | 305 |

Public Health (Dried Milk) Regulations, 1923-1927.

No conditions were observed that suggested the necessity of taking action under these Regulations.

Public Health (Condensed Milk) Regulations, 1923-1927.

Twelve samples of Condensed Milk were submitted to the Public Analyst, and were found to conform in all respects with the Regulations and the statements on the labels.

Public Health (Preservatives in Food, etc.) Regulations, 1925 to 1927.

The various food substances submitted to the Public Analyst under the Sale of Food and Drugs Acts were, when considered necessary or desirable, examined for preservatives, and prohibited colouring matters. In no case was there any breach of the Regulations.

Section 6.

Prevalence and Control over Infectious Disease.

GENERAL PREVALENCE OF NOTIFIABLE INFECTIOUS DISEASE.

SMALLPOX.

The Smallpox epidemic of 1927 continued until October, 1928. 181 notifications were received during the year under review. The diagnosis was in doubt in four cases. There were no deaths. The particulars regarding the age and sex distribution and vaccinal state of the 181 cases are as follows:—

| | | | | | | |
|-----------------------|-----|-----|-----|-----|-----|-----|
| Unvaccinated | ... | ... | ... | ... | ... | 140 |
| Vaccinated in infancy | ... | ... | ... | ... | ... | 41 |
| Revaccinated | ... | ... | ... | ... | ... | — |
| | | | | | | — |
| | | | | | | 181 |
| | | | | | | — |

AGE, SEX AND VACCINAL STATE.

| Age. | Males. | Females. | Vaccinated. | Unvaccinated. |
|-------------|--------|----------|-------------|---------------|
| 0— 5 ... | 5 | 3 | — | 8 |
| 5—10 ... | 19 | 13 | 1 | 31 |
| 10—15 ... | 17 | 24 | 1 | 40 |
| 15—20..... | 26 | 10 | 3 | 33 |
| 20—25 ... | 9 | — | 1 | 8 |
| 25—35 ... | 8 | 12 | 4 | 16 |
| 35—45 ... | 4 | 4 | 6 | 2 |
| 45—65 ... | 17 | 5 | 20 | 2 |
| Over 65 ... | 3 | 2 | 5 | — |
| | — | — | — | — |
| Totals ... | 108 | 73 | 41 | 140 |
| | — | — | — | — |

CONTACTS.

975 contacts were under supervision, and 2,253 visits were paid to these by the Infectious Diseases Inspector.

VACCINATION OF CONTACTS.

The vaccination of 635 contacts was carried out by the Public Vaccinator.

REVIEW OF THE EPIDEMIC.

The first case was notified on the 28th May, 1927, and the last case on the 20th October, 1928.

| | | |
|--|--------|-----|
| Total number of notifications received | ... | 222 |
| (In 4 of these the diagnosis was in doubt) | | |
| Number of deaths | ... .. | — |

The particulars regarding age and sex distribution and vaccinal state are as follows:—

| | | | | | | |
|-----------------------|-----|-----|-----|-----|-----|-----|
| Unvaccinated | ... | ... | ... | ... | ... | 166 |
| Vaccinated in infancy | | ... | ... | ... | ... | 56 |
| Revaccinated | ... | ... | ... | ... | ... | — |
| | | | | | | — |
| | | | | | | 222 |
| | | | | | | — |

AGE, SEX AND VACCINAL STATE.

| Age. | Males. | Females. | Vaccinated. | Unvaccinated. |
|---------|--------|----------|-------------|---------------|
| 0—5 | 5 | 3 | — | 8 |
| 5—10 | 21 | 14 | 1 | 34 |
| 10—15 | 18 | 27 | 1 | 44 |
| 15—20 | 29 | 13 | 3 | 39 |
| 20—25 | 14 | 1 | 1 | 14 |
| 25—35 | 9 | 15 | 5 | 19 |
| 35—45 | 5 | 6 | 8 | 3 |
| 45—65 | 26 | 8 | 30 | 4 |
| Over 65 | 5 | 3 | 7 | 1 |
| | — | — | — | — |
| Totals | 132 | 90 | 56 | 166 |
| | — | — | — | — |

PARTICULARS OF WARD DISTRIBUTION.

| | | | | | |
|-------------------|-----|-----|-----|-----|-----|
| St. Andrew's | ... | ... | ... | ... | 18 |
| Daneshouse | ... | ... | ... | ... | 11 |
| Stoneyholme | ... | ... | ... | ... | 6 |
| St. Peter's ... | ... | ... | ... | ... | 23 |
| St. Paul's ... | ... | ... | ... | ... | 38 |
| Fulledge | ... | ... | ... | ... | 22 |
| Burnley Wood | ... | ... | ... | ... | 20 |
| Healey | ... | ... | ... | ... | 16 |
| Trinity | ... | ... | ... | ... | 16 |
| Whittlefield | ... | ... | ... | ... | 8 |
| Gannow | ... | ... | ... | ... | 28 |
| Lowerhouse | ... | ... | ... | ... | 14 |
| Workhouse | ... | ... | ... | ... | 1 |
| Victoria Hospital | ... | ... | ... | ... | 1 |
| | | | | | 222 |

This epidemic consisted entirely of mild cases similar to those that have occurred over the whole of the country.

It was impossible to trace the source of the first case notified, but out of 222 cases the origin of 189 was easily traced.

Every case was removed to the Smallpox Isolation Hospital at Crown Point. There were no "return" cases.

Scarlet Fever.—There have been 144 cases notified as compared with 101 the previous year, and 143 in 1926. One death occurred during the year.

The Morbidity Rate, number of deaths, and the mortality rate from Scarlet Fever for the last ten years are given below:—

| | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 |
|--|------|------|------|------|------|------|------|------|------|------|
| Cases per 1,000 of population | 1.24 | 1.68 | 1.55 | 4.55 | 5.70 | 0.74 | 2.04 | 1.44 | 1.02 | 1.43 |
| No. of deaths | 2 | 3 | 1 | 9 | 9 | — | — | — | — | 1 |
| Mortality rate per 1,000 of population | .019 | .028 | .009 | .085 | .086 | — | — | — | — | .01 |
| Mortality rate per 1,000 cases | 15.7 | 17.0 | 6.1 | 18.8 | 15.1 | — | — | — | — | 7.0 |

The following table shows the ages of the persons notified:—

| | | | | | | | Cases. | Deaths. | |
|-------------|----|-----|-----|-----|-----|-----|--------|---------|---|
| Under | 1 | ... | ... | ... | ... | ... | — | ... | — |
| From | 1 | to | 2 | ... | ... | ... | 3 | ... | — |
| „ | 2 | to | 3 | ... | ... | ... | 4 | ... | — |
| „ | 3 | to | 4 | ... | ... | ... | 8 | ... | — |
| „ | 4 | to | 5 | ... | ... | ... | 10 | ... | 1 |
| „ | 5 | to | 10 | ... | ... | ... | 72 | ... | — |
| „ | 10 | to | 15 | ... | ... | ... | 28 | ... | — |
| „ | 15 | to | 20 | ... | ... | ... | 11 | ... | — |
| „ | 20 | to | 35 | ... | ... | ... | 8 | ... | — |
| „ | 35 | to | 45 | ... | ... | ... | — | ... | — |
| „ | 45 | to | 65 | ... | ... | ... | — | ... | — |
| 65 and over | | | | ... | ... | ... | — | ... | — |
| | | | | | | | — | | — |
| | | | | | | | 144 | ... | 1 |
| | | | | | | | — | | — |

As regards Isolation, 68 cases were removed to the Infectious Diseases Hospital, the remaining 76 being isolated in their own homes.

RETURN CASES.—One return case of Scarlet Fever was reported following on the return home of a patient from the Infectious Diseases Hospital after treatment. No return cases were traced during the year in connection with patients treated at home.

DICK TEST AND IMMUNIZATION.—No use has been made of this test or of the recent methods of immunizing persons against Scarlet Fever.

Diphtheria and Membranous Croup.—The total notified under these headings was 95, 5 being notified as Membranous Croup. The cases were distributed over the whole of the year and did not assume epidemic form. In 1927 there were 154 cases notified.

In all there were 8 deaths from this disease as against 8 last year. 5 of the deaths occurred at the Sanatorium.

Of the 95 cases notified, 57 were admitted to the Sanatorium. The following table gives the morbidity rate, number of deaths, and the mortality rate from Diphtheria for the last ten years.

| | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 |
|--|------|------|------|-------|------|------|------|------|------|------|
| Cases per 1,000 of population | ·71 | ·91 | 1·96 | 1·12 | 1·00 | 1·00 | 1·59 | 1·43 | 1·55 | 0·94 |
| No. of deaths | 5 | 9 | 8 | 13 | 7 | 8 | 15 | 9 | 8 | 8 |
| Mortality rate per 1,000 of population | ·048 | ·09 | ·07 | ·12 | ·07 | ·08 | ·15 | ·09 | ·08 | ·08 |
| Mortality rate per 1,000 cases | 68·5 | 93·7 | 38·8 | 110·2 | 66·6 | 77·7 | 92·0 | 60·6 | 52·0 | 84·2 |

The ages of the notified cases and ages at death are as follows:—

| | | | | | | Cases. | Deaths. |
|-----------------|-----|-----|-----|-----|-----|--------|---------|
| Under 1 ... | ... | ... | ... | ... | ... | — | — |
| From 1 to 2 ... | ... | ... | ... | ... | ... | 5 | — |
| „ 2 to 3 ... | ... | ... | ... | ... | ... | 8 | 2 |
| „ 3 to 4 ... | ... | ... | ... | ... | ... | 7 | 1 |
| „ 4 to 5 ... | ... | ... | ... | ... | ... | 6 | — |
| „ 5 to 10 ... | ... | ... | ... | ... | ... | 38 | 5 |
| „ 10 to 15 ... | ... | ... | ... | ... | ... | 14 | — |
| „ 15 to 20 ... | ... | ... | ... | ... | ... | 1 | — |
| „ 20 to 35 ... | ... | ... | ... | ... | ... | 15 | — |
| „ 35 to 45 ... | ... | ... | ... | ... | ... | 1 | — |
| „ 45 to 65 ... | ... | ... | ... | ... | ... | — | — |
| 65 and over | ... | ... | ... | ... | ... | — | — |
| Total ... | ... | ... | ... | ... | ... | 95 | 8 |

SUPPLY OF DIPHTHERIA ANTI-TOXIN.—In accordance with the recommendation of the Ministry of Health, vials containing 500 units for prophylactic purposes, and vials containing 8,000 units for treatment, are available.

72 Vials of 8,000 units have been supplied to medical men free. The Anti-Toxin can be obtained for any person residing in the Borough on a written order from any medical man. It can be obtained at the Public Health Office during the day and at the Central Police Station, Town Hall, between the hours of 11 p.m. and 9 a.m.

DIAGNOSIS.—There were 1,249 swabs for Diphtheria examined at the Corporation Public Health Laboratory, and 314 of these were positive. 336 of these examinations were in respect of Burnley residents; 51 were positive.

RETURN CASES.—No return cases occurred during the year.

Typhoid or Enteric Fever.—Five cases only of this disease were notified ; 1 of the cases died. The following table gives the morbidity rate, number of deaths, and the mortality rate of Enteric Fever for the last ten years:—

| | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 |
|--|-------|-------|-------|-------|-------|-------|------|------|------|------|
| Cases per 1,000 of population | ·065 | ·086 | ·152 | ·048 | ·134 | ·222 | ·05 | ·21 | ·01 | ·05 |
| No. of deaths | 2 | 2 | 3 | 2 | 3 | 5 | — | 2 | — | 1 |
| Mortality rate per 1,000 of population | ·019 | ·019 | ·029 | ·019 | ·029 | ·048 | — | ·02 | — | ·01 |
| Mortality rate per 1,000 cases..... | 285·7 | 222·2 | 187·5 | 400·0 | 214·3 | 217·5 | — | 95·2 | — | 200 |

The ages of the persons notified are as follows:—

| | | | | | | Cases. | Deaths. |
|-------------|-----|-----|-----|-----|-----|--------|---------|
| Under 1 | ... | ... | ... | ... | ... | — | — |
| From 1 to 2 | ... | ... | ... | ... | ... | — | — |
| „ 2 to 3 | ... | ... | ... | ... | ... | — | — |
| „ 3 to 4 | ... | ... | ... | ... | ... | — | — |
| „ 4 to 5 | ... | ... | ... | ... | ... | — | — |
| „ 5 to 10 | ... | ... | ... | ... | ... | — | — |
| „ 10 to 15 | ... | ... | ... | ... | 1 | ... | 1 |
| „ 15 to 20 | ... | ... | ... | ... | 1 | ... | — |
| „ 20 to 35 | ... | ... | ... | ... | 1 | ... | — |
| „ 35 to 45 | ... | ... | ... | ... | 1 | ... | — |
| „ 45 to 65 | ... | ... | ... | ... | 1 | ... | — |
| 65 and over | ... | ... | ... | ... | — | ... | — |
| Total | | | | | 5 | ... | 1 |

During the year 21 Widal Tests were carried out at the Public Health Laboratory.

Puerperal Fever.—There were 4 notifications of this disease. No deaths. Last year the figures were 6 cases, 1 death.

Puerperal Pyrexia.—There were 28 notifications.

Further particulars regarding the incidence of Puerperal Fever and Puerperal Pyrexia are to be found under the Maternity and Child Welfare Section of the Report.

Erysipelas.—87 cases were notified, as against 51 last year. There were 7 deaths as against none last year. Of the 87 cases 25 were admitted to the Sanatorium.

The ages of the cases and deaths are:—

| | | | | | | Cases. | Deaths. |
|-------------|-------|-----|-----|-----|-----------|--------|---------|
| Under | 1 | ... | ... | ... | ... | 1 | — |
| From | 1 to | 2 | ... | ... | ... | — | — |
| „ | 2 to | 3 | ... | ... | ... | 1 | — |
| „ | 3 to | 4 | ... | ... | ... | — | — |
| „ | 4 to | 5 | ... | ... | ... | — | — |
| „ | 5 to | 10 | ... | ... | ... | 2 | — |
| From | 10 to | 15 | ... | ... | ... | — | — |
| „ | 15 to | 20 | ... | ... | ... | 1 | — |
| „ | 20 to | 35 | ... | ... | ... | 20 | 2 |
| „ | 35 to | 45 | ... | ... | ... | 16 | 1 |
| „ | 45 to | 65 | ... | ... | ... | 35 | 3 |
| 65 and over | | | ... | ... | ... | 11 | 1 |
| | | | | | | — | — |
| | | | | | Total ... | 87 | 7 |
| | | | | | | — | — |

Measles.

In accordance with the provisions of the Borough of Burnley (Measles and German Measles) Regulations, 1920, all cases of Measles and German Measles have to be notified. 1,405 cases were notified to the Health Department in 1928. 25 of these were certified as German Measles. 8 deaths occurred, the case mortality being 5·7 per 1,000. Last year 32 deaths were registered, giving a case mortality of 26·8.

An analysis of the ages at notification and at death appear below:—

| | | | | | | Cases. | Deaths. |
|-------|-------|-----|-----|-----|-----------|--------|---------|
| Under | 1 | ... | ... | ... | ... | 86 | 1 |
| From | 1 to | 2 | ... | ... | ... | 165 | 3 |
| „ | 2 to | 3 | ... | ... | ... | 188 | 2 |
| „ | 3 to | 4 | ... | ... | ... | 225 | — |
| „ | 4 to | 5 | ... | ... | ... | 206 | — |
| „ | 5 to | 10 | ... | ... | ... | 508 | 2 |
| „ | 10 to | 15 | ... | ... | ... | 17 | — |
| „ | 15 to | 20 | ... | ... | ... | 5 | — |
| „ | 20 to | 35 | ... | ... | ... | 5 | — |
| „ | 35 to | 45 | ... | ... | ... | — | — |
| „ | 45 to | 65 | ... | ... | ... | — | — |
| | | | | | | — | — |
| | | | | | Total ... | 1405 | 8 |
| | | | | | | — | — |

No cases were removed to the Infectious Diseases Hospital ; none were nursed at home by the District Nurse.

The figures relating to morbidity and mortality for the past 10 years are as follows:—

| Year. | Number of Cases. | Number of Deaths. | Mortality Rate per 1,000 Cases. | Mortality Rate per 1,000 of population. |
|-------|------------------|-------------------|---------------------------------|---|
| 1919 | 1,749 | 26 | 14·8 | 0·25 |
| *1920 | 290 | 7 | 24·1 | 0·07 |
| *1921 | 147 | — | — | — |
| *1922 | 3,423 | 58 | 16·9 | 0·55 |
| *1923 | 193 | 11 | 57·0 | 0·15 |
| *1924 | 614 | 8 | 13·0 | 0·08 |
| *1925 | 2,323 | 48 | 20·6 | 0·47 |
| *1926 | 2,220 | 9 | 4·05 | 0·09 |
| *1927 | 1,192 | 32 | 26·8 | 0·32 |
| *1928 | 1,405 | 8 | 5·7 | 0·08 |

*All cases of Measles notifiable.

Ophthalmia Neonatorum.—6 notifications were received.

Pneumonia, Malaria, Dysentery and Trench Fever Regulations.

The number and kind of notifications were as follows:—

| | | | | | |
|------------|------------|-----|-----|-----|-----|
| PNEUMONIA— | Primary | ... | ... | ... | 197 |
| | Influenzal | ... | ... | ... | 17 |
| MALARIA | ... | ... | ... | ... | 1 |
| DYSENTERY | ... | ... | ... | ... | 1 |

Encephalitis Lethargica.—There have been 4 cases notified during the year: one between 15 and 20 years, one between 20 and 35 years, one between 35 and 45 years, and one between 45 and 65 years. Three deaths were registered as being due to this disease.

Cerebro Spinal Fever.—One case was notified.

NON-NOTIFIABLE INFECTIOUS DISEASES.

These cases are brought to the notice of the Health Department through notifications received from schools. Some of the cases are visited by the Inspector, who gives such advice as may be necessary regarding preventing the further spread of the disease.

The following are the number of cases:—

| | | | | | | |
|----------------|-----|-----|-----|-----|-----|----|
| Chickenpox | ... | ... | ... | ... | ... | 28 |
| Whooping Cough | ... | ... | ... | ... | ... | 6 |
| Mumps | ... | ... | ... | ... | ... | 3 |

Influenza.—The number of deaths registered as being due to influenza was 26, as compared with 107 the previous year. The age groups were as follows:—

| | | | | | | | |
|-------------|-----|-----|-----|-----|-----|-----|----|
| Under 1 | ... | ... | ... | ... | ... | ... | — |
| From 1 to 2 | ... | ... | ... | ... | ... | ... | — |
| „ 2 to 5 | ... | ... | ... | ... | ... | ... | — |
| „ 5 to 15 | ... | ... | ... | ... | ... | ... | 1 |
| „ 15 to 25 | ... | ... | ... | ... | ... | ... | — |
| „ 25 to 45 | ... | ... | ... | ... | ... | ... | 9 |
| „ 45 to 65 | ... | ... | ... | ... | ... | ... | 9 |
| 65 and over | ... | ... | ... | ... | ... | ... | 7 |
| | | | | | | | — |
| | | | | | | | 26 |
| | | | | | | | — |

The complications of Influenza which have caused death are as follows:—

| | | | | | | |
|------------------------|-----|-----|-----|-----|-----|----|
| Respiratory affections | ... | ... | ... | ... | ... | 18 |
| Heart affections | ... | ... | ... | ... | ... | 6 |
| Others | ... | ... | ... | ... | ... | 1 |

DISINFECTION.

The houses where infectious disease has occurred are disinfected by means of the formaldehyde spray; clothing, bedding, etc., is removed to the Authority's New Disinfecting Station in Basket Street, and disinfected in the "Equifex" Steam Disinfector, which is of the super-heated type.

The work carried out in connection with visitation of infected homes and disinfection is as follows:—

| | | | | | |
|---|-----|-----|-----|-----|-------|
| Visits to Infected Houses | ... | ... | ... | ... | 3,485 |
| „ Suspected cases of Infectious Diseases | ... | ... | ... | ... | 132 |
| „ Non-notifiable Infectious Diseases (Chickenpox) | ... | ... | ... | ... | 51 |
| Houses Disinfected (Rooms—541) | ... | ... | ... | ... | 359 |
| Number of times Disinfecting Machine used... | ... | ... | ... | ... | 563 |
| Number of times Institutions Disinfected | ... | ... | ... | ... | 54 |

| | | | | | | | |
|-----------------------------|-------------|-----|-----|-----|-----|-----|-----|
| Beds | Disinfected | ... | ... | ... | ... | ... | 375 |
| Pillow Cases | do. | ... | ... | ... | ... | ... | 621 |
| Pillows | do. | ... | ... | ... | ... | ... | 900 |
| Blankets | do. | ... | ... | ... | ... | ... | 676 |
| Sheets | do. | ... | ... | ... | ... | ... | 258 |
| Coverlets | do. | ... | ... | ... | ... | ... | 658 |
| Library Books | ... | ... | ... | ... | ... | ... | 319 |
| Midwives' Bags and Clothing | ... | ... | ... | ... | ... | ... | 5 |
| Other Articles of Clothing | Disinfected | ... | ... | ... | ... | ... | 780 |

Bedding, etc., disinfected from Bank Hall Hospital:—

| | | | | | | | |
|-------------------|-----|-----|-----|-----|-----|-----|-----|
| Beds | ... | ... | ... | ... | ... | ... | 29 |
| Pillows | ... | ... | ... | ... | ... | ... | 69 |
| Sheets | ... | ... | ... | ... | ... | ... | 174 |
| Blankets | ... | ... | ... | ... | ... | ... | 191 |
| Mattresses | ... | ... | ... | ... | ... | ... | 93 |
| Stoving Bags | ... | ... | ... | ... | ... | ... | 99 |
| Pillow Cases | ... | ... | ... | ... | ... | ... | 96 |
| Nightgowns | ... | ... | ... | ... | ... | ... | 27 |
| Waterproof Sheets | ... | ... | ... | ... | ... | ... | 9 |

Open-Air School:—

| | | | | | | | |
|----------|-------------|-----|-----|-----|-----|-----|-----|
| Blankets | Disinfected | ... | ... | ... | ... | ... | 163 |
| Pillows | do. | ... | ... | ... | ... | ... | 3 |

Crown Point Smallpox Hospital:—

The wearing apparel of 357 Smallpox patients was disinfected before being discharged.

Disinfestation.—No persons have been cleansed at the Disinfecting Station.

PUBLIC HEALTH LABORATORY.

The following is a report by Dr. Priestley, the Municipal Bacteriologist, on the work of the Laboratory during 1928.

I. GENERAL STATISTICS.

| | | | |
|-----------------------------------|----------|-----|-------------|
| Sputa for tubercle bacilli | positive | 112 | |
| | negative | 543 | 655 |
| Swabs for diphtheria bacilli | positive | 314 | |
| | negative | 935 | 1,249 |
| Hairs for ringworm | positive | 281 | |
| | negative | 355 | 636 |
| Tissues for section | ... | ... | 83 |
| Pus and exudates | ... | ... | 47 |
| Cerebrospinal fluids | ... | ... | 27 |
| Urines | ... | ... | 259 |
| Fæces | ... | ... | 46 |
| Widal tests | ... | ... | 21 |
| Bloods, culture and count | ... | ... | 71 |
| Milks for bacterial content | ... | ... | 447 |
| Milks for tubercle bacilli | ... | ... | 180 |
| Other tests by animal inoculation | ... | ... | 17 |
| Various specimens unclassified | ... | ... | 39 |
| Vaccines made | ... | ... | 29 |
| | | | <hr/> 3,806 |

VENEREAL DISEASE EXAMINATIONS—

| | | | | | |
|------------------|-----|-----|-----|-----|-------------|
| for spirochætes | ... | ... | ... | ... | 8 |
| for gonococci | ... | ... | ... | ... | 282 |
| Wassermann tests | ... | ... | ... | ... | 826 |
| | | | | | <hr/> 1,116 |
| Total | | | | | <hr/> 4,922 |

II. Source of specimens exclusive of Venereal Disease specimens:—

| | | | |
|--|-----|-----|-----|
| Padiham Urban District Council | ... | ... | 171 |
| Brierfield Urban District Council | ... | ... | 1 |
| Burnley Rural District Council | ... | ... | 43 |
| Colne Borough | ... | ... | 28 |
| Victoria Hospital | ... | ... | 370 |
| Primrose Bank Infirmary | ... | ... | 79 |
| Sanatorium (I.D. Hospital) | ... | ... | 814 |
| Practitioner, other than Infectious Diseases | | | |
| Specimens | ... | ... | 56 |

III. The examinations again show an increase, being 11·0% more than last year. The following table shows the figures of the last five years.

| | 1924 | 1925 | 1926 | 1927 | 1928 |
|--------------------------|------|------|------|------|------|
| General Specimens | 1456 | 2087 | 2395 | 3350 | 3806 |
| V. D. Specimens | 932 | 937 | 1062 | 1114 | 1116 |
| Totals | 2388 | 3024 | 3457 | 4464 | 4922 |

IV. 180 animals were inoculated with milks deposit for evidence of tubercle bacilli. Of these 9 were positive and one doubtful, giving a positive per centage of 5·5, as compared with 7·3% last year.

V. A systematic examination of milks for bacterial content and evidence of faecal pollution has been continued throughout the year, the results being reported separately.

VI. In my last report mention was made of the fact that examination of the sera of guinea-pigs inoculated with milks showed a large percentage to be infected with *B. abortus*, attributable to the milks themselves, as no normal animals, and no animals inoculated with other material than milk, have shown the presence of abortus antibody. This work has been carried on in 1928, and the total examinations to the end of this year show

| | |
|---|-----|
| Animals examined | 270 |
| Sera reacting positively to <i>B. abortus</i> ... | 49 |
| Percentage of positives | 18 |

The question of the pathogenicity of *B. abortus* for man is receiving more attention than hitherto, and within the last few years a number of cases of supposed *B. abortus* infection in man have been reported from the U.S.A., Germany, Rhodesia, and in this country. Unfortunately the evidence is far from complete owing to inability to isolate the organism from cases of disease and to its extraordinary resemblance to *B. melitensis*, a known pathogen for man. Nevertheless the occurrence of prolonged mild pyrexias associated with the presence of antibodies for *B. melitensis* and *B. abortus* in cases where definite melitensis infection is unlikely is presumptive evidence in favour of the latter infection. In a recent paper Harrison and Wilson have given the results of the examination of over 1,000 human sera for abortus agglutinin. Among these were 42 sera from cases of undiagnosed pyrexia, which were definitely negative for the enteric group of organisms, and 9 of these showed agglutination of *B. abortus* at a dilution of 1 in 40 or higher—21·4%. These figures, associated with the large infection of milks I have shown, indicate the desirability of keeping abortus infection in mind, and I shall be glad to receive from practitioners specimens of blood from any cases of undetermined pyrexia, in order to test them for abortus antibody.

Contamination of Milk.

Reports furnished to the Medical Officer of Health by the Bacteriologist.

Eleventh Milk Report.

I have to report that between the 6th and the 16th February, 1928, I have examined 103 samples of milk for bacterial count and evidence of faecal contamination.

Of these three were special milks not collected in the ordinary way. They gave the following results:—

| | | |
|---------------------|----------------------|-------------------------|
| 1. "Grade A" milk | count 38,600 per cc. | In none of these was |
| 2. "Safety" milk | count 1,950 per cc. | there evidence of coli- |
| 3. Pasteurised milk | count 4,000 per cc. | form organisms even in |
| | | 1.0 cc. |

One of the ordinary milks contained organisms too numerous to count, but a second specimen from the same source showed a small count. The high count in the first case was not due to coliform organisms, but to cocci and yeasts, so that it was probably accidental. Both are included in the detailed list at the end of this report, but the first is excluded from the following analysis, together with the three special milks above.

Of the remaining 99 samples from 71 sources, 68 were morning milks and 31 evening milks.

I. GENERAL COUNT.

| | | |
|--------------------|---------------|---------------------|
| 68 morning samples | average count | ... 27,976 per cc. |
| | highest | ... 622,000 per cc. |
| | lowest | ... 1,750 per cc. |
| 31 evening samples | average count | ... 21,005 per cc. |
| | highest | ... 186,000 per cc. |
| | lowest | ... 600 per cc. |

II. GRADES ON COUNT ALONE.

Ministry of Health Standards—

| | | | |
|---------------|--------|-----------------------------------|---------------|
| Under 30,000 | ..... | 57 morning and 27 evening samples | =84.8% |
| Under 200,000 | ... 10 | " " 4 " " | =14.2% |
| Over 200,000 | ... 1 | " " " | =1.0% approx. |

Our own standards—

| | | |
|--------------------|---------------------------------------|--------|
| I. Very good milks | ... 57 morning and 27 evening samples | =84.8% |
| II. Good milks | ... 9 " " 3 " " | =12.1% |
| III. Fair milks | ... 1 " " 1 " " | =2.0% |
| IV. Bad milks | ... 1 " " " | =1.0% |

III. PRESENCE OF LACTOSE FERMENTING ORGANISMS OF THE COLIFORM TYPE.

These were

| | |
|-----------------------------------|----------|
| absent from 0.1 cc. | in 65.6% |
| present in 0.1, not 0.01 cc. | in 23.2% |
| present in 0.01 cc. | in 11.2% |

The average count of evening samples is the lowest yet recorded in these examinations, while the morning average has only twice been less. The percentage of good milks (96.9%) is the highest yet recorded, and only once has the percentage of samples showing lactose fermenters in 0.01 cc. been so low as now.

Twelfth Milk Report.

I have to report that between the 30th April and the 10th May, 1928, I have examined 100 samples of milk for bacterial count and evidence of faecal contamination with the following results.

I. GENERAL COUNT.

| | | | |
|--------------------|---------------|-----|-----------------|
| 60 morning samples | average count | ... | 27,852 per cc. |
| | highest | ... | 300,000 per cc. |
| | lowest | ... | 2,000 per cc. |
| 40 evening samples | average count | ... | 42,571 per cc. |
| | highest | ... | 588,000 per cc. |
| | lowest | ... | 2,000 per cc. |

II. GRADES ON COUNT ALONE.

Ministry of Health Standards—

| | | | |
|---------------|-----|-----------------------------------|------|
| Under 30,000 | ... | 45 morning and 27 evening samples | =72% |
| Under 200,000 | ... | 14 " " 10 " " | =24% |
| Over 200,000 | ... | 1 " " 3 " " | =4% |

Our own standards—

| | | |
|-----------------------|-----------------------------------|------|
| I. Very good milks... | 45 morning and 27 evening samples | =72% |
| II. Good milks | ...13 " " 10 " " | =23% |
| III. Fair milks | ... 2 " " 2 " " | = 4% |
| IV. Bad milks | ... 1 " " | = 1% |

III. PRESENCE OF LACTOSE FERMENTERS OF THE COLIFORM TYPE.

| | |
|-----------------------------------|--------|
| absent from 0.1 cc. | in 68% |
| present in 0.1, not 0.01 cc. | in 19% |
| present in 0.01 cc. | in 13% |

Thirteenth Milk Report.

I have to report that between August 24th and September 8th, 1928, I have examined 102 milk samples from 65 sources with the following results.

Two samples—one morning and one evening—contained bacteria too numerous to count, i.e., 5 millions or more per cc. These two milks are excluded from the following analysis, but I should add that two more samples were obtained from one of these sources, and these gave reasonable counts.

I. GENERAL COUNT.

| | | | |
|--------------------|---------------|-----|-------------------|
| 65 morning samples | average count | ... | 67,070 per cc. |
| | highest | ... | 1,280,000 per cc. |
| | lowest | ... | 2,000 per cc. |
| 35 evening samples | average count | ... | 365,784 per cc. |
| | highest | ... | 4,342,000 per cc. |
| | lowest | ... | 1,300 per cc. |

II. GRADES ON COUNT ALONE.

Ministry of Health Standards—

| | | | |
|---------------|-----|-----------------------------------|------|
| Under 30,000 | ... | 48 morning and 19 evening samples | =67% |
| Under 200,000 | ... | 13 " " 7 " " | =20% |
| Over 200,000 | ... | 4 " " 9 " " | =13% |

Our own standards—

| | | | |
|--------------------|-----|-----------------------------------|------|
| I. Very good milks | ... | 48 morning and 19 evening samples | =67% |
| II. Good milks | ... | 10 " " 3 " " | =13% |
| III. Fair milks | ... | 5 " " 8 " " | =13% |
| IV. Bad milks | ... | 2 " " 5 " " | = 7% |

III. LACTOSE FERMENTERS OF COLIFORM TYPE.

| | | |
|------------------------------|---------|-----|
| were absent from 0.1 cc. |in | 42% |
| present in 0.1, not 0.01 cc. |in | 28% |
| present in 0.01 cc. |in | 30% |

These milks, both by count and presence of lactose fermenting organisms, show a lower standard than any samples examined since November, 1926. This is no doubt attributable to the warm weather. But it is evident from the marked difference between the highest and the lowest counts—especially those of the evening samples—and from the fact that 13 out of 35 evening samples gave counts of over 100,000 per cc., that many of these milks are not efficiently cooled and kept cool.

It is a reasonable assumption that on the average the cows are milked with no less careful precautions than formerly, and that the high counts represent multiplication of comparatively few initial bacteria in milks kept under conditions favourable to their growth.

Fourteenth Milk Report.

I have to report that between the 10th and 20th of December, 1928, I have examined 100 milk samples from 63 sources for bacterial count and presence of lactose fermenting organisms of the coliform type. The following are the results.

I. GENERAL COUNT.

| | | | |
|--------------------|----------|---------|------------------|
| 60 morning samples | averaged | 23,500 | bacteria per cc. |
| | highest | 150,000 | " " |
| | lowest | 1,250 | " " |
| 40 evening samples | averaged | 18,138 | bacteria per cc. |
| | highest | 91,500 | " " |
| | lowest | 2,100 | " " |

II. GRADES ON COUNT ALONE.

Ministry of Health Standards—

| | | |
|-----------------------|--------------------------------------|------|
| Under 30,000 per cc. | ...45 morning and 33 evening samples | =78% |
| Under 200,000 per cc. | ...15 " " 7 " " | =22% |
| Over 200,000 per cc. | ...None. | |

Our own Standards—

| | | |
|--------------------|--------------------------------------|------|
| I. Very good milks | ...45 morning and 33 evening samples | =78% |
| II. Good milks | ...14 " " 7 " " | =21% |
| III. Fair milks | ...1 " " | =1% |
| IV. Bad milks | ...None. | |

III. PRESENCE OF ORGANISMS INDICATING FÆCAL POLLUTION.

Lactose fermenters were

| | |
|---------------------------------|-------------|
| absent from 0.1 cc. |in 64% |
| present in 0.1, not in 0.01 cc. |in 27% |
| present in 0.01 cc. |in 9% |

These samples show a high standard both on count and presence of coliform organisms.

This being my last Milk Report for the current year, I append tables as before, showing the comparative results for the past four years.

TABLE I.—AVERAGE COUNTS.

| Year. | Morning Milks. | | Evening Milks. | |
|-------|------------------|-------------------------------|------------------|-------------------------------|
| | Number examined. | Average per cc. in thousands. | Number examined. | Average per cc. in thousands. |
| 1925 | 139 | 199.1 | 73 | 378.8 |
| 1926 | 128 | 118.3 | 63 | 110.3 |
| 1927 | 249 | 34.9 | 123 | 98.7 |
| 1928 | 253 | 36.9 | 146 | 108.7 |

TABLE II.—PERCENTAGE SHOWING LACTOSE FERMENTING ORGANISMS.

| Year. | Not in 0.1 cc. | In 0.1 not 0.01 cc. | In 0.01 cc. |
|-------|----------------|---------------------|-------------|
| 1925 | 33.6 | 28.6 | 37.6 |
| 1926 | 43.7 | 23.3 | 33.0 |
| 1927 | 53.4 | 25.6 | 21.0 |
| 1928 | 59.9 | 24.3 | 15.8 |

TABLE III.—GRADE (ON COUNT ONLY).

| Year. | I. Very Good. | II. Good. | III. Fair. | IV. Bad. |
|-------|---------------|-----------|------------|----------|
| | % | % | % | % |
| 1925 | 33.9 | 38.2 | 15.7 | 12.1 |
| 1926 | 31.8 | 37.4 | 29.2 | 2.5 |
| 1927 | 64.7 | 23.2 | 9.5 | 2.6 |
| 1928 | 75.4 | 17.3 | 5.0 | 2.2 |

These figures indicate that the high standard reached last year has, on the whole, been maintained. The average counts are slightly higher, but on the other hand the percentage of faecally polluted samples is less, and the percentage of very good milks is notably higher.

Of the 399 samples examined during the year no less than 149 had a count below 10,000 bacteria per cc. In comparison with former years this shows—

TABLE IV.—PERCENTAGE BELOW 10,000 cc.

| Year. | Year. |
|-----------------|------------------|
| 1925 5.3 | 1927 32.1 |
| 1926 7.6 | 1928 37.3 |

This seems to be as high a standard as may be expected.

X-RAY DEPARTMENT, 1928.SUMMARY OF RADIOSCOPIC AND RADIOGRAPHIC WORK CARRIED
OUT IN 1928.

RADIOSCOPY.

| Referred by | | | | | | | | Chest. |
|------------------------|-----|-----|-----|-----|-----|-----|-----|--------|
| Tuberculosis Officer | ... | ... | ... | ... | ... | ... | ... | 2 |
| School Medical Officer | ... | ... | ... | ... | ... | ... | ... | 2 |
| Practitioner | ... | ... | ... | ... | ... | ... | ... | 5 |
| Total | | | | | | | | 9 |

RADIOGRAPHY.

| Referred by | Wrist | Knee | Hip | Arm | Rib | Foot | Chest | Elbow | Ankle | Fing'r | Spine | Hand | Total |
|---------------------------------|-------|------|-----|-----|-----|------|-------|-------|-------|--------|-------|------|-------|
| B. Hall | — | — | — | — | 1 | — | — | — | — | — | 1 | — | 2 |
| Tuberculosis Officer | 2 | — | 1 | — | — | 2 | 5 | — | — | — | — | — | 10 |
| School Medical Officer | 3 | 2 | 1 | 2 | 1 | 1 | 5 | 1 | 2 | 2 | — | 3 | 23 |
| Practitioner ... | — | — | — | — | — | — | 11 | — | — | — | — | — | 11 |
| Corporation | — | — | — | — | — | — | — | — | 2 | — | — | 1 | 3 |
| Accident | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Infant Welfare Centre | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Totals | 6 | 2 | 2 | 2 | 2 | 3 | 21 | 1 | 4 | 2 | 1 | 4 | 50 |

Section 7.

Tuberculosis.

Notification Register.

At the end of 1928 there remained on the Tuberculosis Register in Burnley 812 cases as follows:—

| Pulmonary. | | | Non-Pulmonary. | | | |
|------------|----------|--------|----------------|----------|--------|-------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Total Cases |
| 260 | 197 | 457 | ... | 163 | 192 | 355 812 |

NEW CASES AND MORTALITY DURING 1928.

The particulars of new cases of tuberculosis and deaths from the disease in 1928 are given.

| Age Periods | NEW CASES. | | | | | | DEATHS. | | | | | |
|-------------------|------------|----|-------|----------------|----|-------|------------|----|-------|----------------|----|-------|
| | Pulmonary. | | | Non-Pulmonary. | | | Pulmonary. | | | Non-Pulmonary. | | |
| | M. | F. | Total | M. | F. | Total | M. | F. | Total | M. | F. | Total |
| Under 1 | — | — | — | 1 | 1 | 2 | — | — | — | 1 | 1 | 2 |
| 1—5 | — | 1 | 1 | 4 | 3 | 7 | — | — | — | 1 | 3 | 4 |
| 5—10 | — | 2 | 2 | 6 | 3 | 9 | — | — | — | 2 | 2 | 4 |
| 10—15 | 1 | 3 | 4 | 2 | 3 | 5 | 1 | — | 1 | — | — | — |
| 15—20 | 10 | 9 | 19 | 5 | 8 | 13 | 3 | 5 | 8 | 1 | — | 1 |
| 20—25 | 7 | 9 | 16 | 2 | 6 | 8 | 5 | 5 | 10 | — | — | — |
| 25—35 | 14 | 20 | 34 | 2 | 3 | 5 | 9 | 10 | 19 | 1 | 1 | 2 |
| 35—45 | 14 | 12 | 26 | 2 | 3 | 5 | 10 | 3 | 13 | — | — | — |
| 45—55 | 10 | 5 | 15 | 2 | 1 | 3 | 12 | 7 | 19 | 1 | — | 1 |
| 55—65 | 10 | 3 | 13 | 1 | 2 | 3 | 6 | 3 | 9 | — | 1 | 1 |
| 65 and upwards | 4 | — | 4 | 3 | 1 | 4 | 2 | 2 | 4 | — | 1 | 1 |
| Total | 70 | 64 | 134 | 30 | 34 | 64 | 48 | 35 | 83 | 7 | 9 | 16 |

Notifications.

236 Notifications were received during the year ; 45 of these were duplicates leaving 191 primary notifications. In addition 7 new cases came to the knowledge of the Department otherwise than by notification under the Tuberculosis Regulations of 1912, i.e., from the Registrar's Death returns 6, Notified after death 1.

The total new cases were therefore 198, of which there were 134 Pulmonary and 64 Non-Pulmonary.

The source of 6 of the new cases coming to the knowledge of the department other than by notification, was the Death Returns. In each case the doctor certifying the death was communicated with regarding non-notification. It was, however, not considered advisable to take any further action in any of the cases. One case was notified after death.

The ratio of non-notified tuberculosis deaths to total tuberculosis deaths is shown in the following table.

| Non-notified Fatal Cases. | | | Total Fatal Cases. | Percentages of non-notified Cases. |
|---------------------------|----------------|--------|--------------------|------------------------------------|
| Pulmonary. | Non-pulmonary. | Total. | | |
| 2 | 4 | 6 | 99 | 6% |

A reference to the figures given later, shewing the period elapsing between notification and death of pulmonary cases of tuberculosis, will give an idea of the efficiency of notification.

The occupation of the cases notified under the Tuberculosis Regulations other than supplementary notifications, are shewn below.

| Occupation. | Pulmonary. | Non-Pulmonary. |
|--------------------------|------------|----------------|
| Textile Operatives | 59 | 19 |
| Labourers | 14 | 3 |
| Miners | 8 | 1 |
| Housewives | 9 | 1 |
| Other Occupations | 34 | 12 |
| School Children..... | 6 | 14 |
| Under school age | — | 8 |
| Not Stated..... | 1 | 2 |
| | — | — |
| Total | 131 | 60 |
| | — | — |

The results of the nurses' enquiries as regards the new cases are here given.

Pulmonary.

SEX AND STATE OF PATIENTS.

| Married. | | Single. | | Children. | | Notified from Institutions. | | Total. |
|----------|----|---------|----|-----------|----|--------------------------------|----|--------|
| M. | F. | M. | F. | M. | F. | M. | F. | |
| 26 | 29 | 17 | 26 | 1 | 4 | 23 | 5 | 131 |

NUMBER OF ROOMS IN HOUSES.

| | |
|--------------------|-----|
| 2 Rooms | 5 |
| 3 „ | 6 |
| 4 „ | 38 |
| Over 4 | 54 |
| Institutions | 28 |
| Total | 131 |

CONDITION OF PATIENT.

| | |
|----------------------------|-----|
| Bedfast | 25 |
| At Home, not Bedfast | 70 |
| Working | 8 |
| Institutions | 28 |
| Total | 131 |

SLEEPING ACCOMMODATION.

| | |
|---------------------------------|-----|
| Room to self | 34 |
| Bed, but not room to self | 14 |
| Sleeps with other person | 49 |
| Bed in living-room | 6 |
| Institutions | 28 |
| Total | 131 |

The 49 persons who did not sleep alone are divided as follows, the first named being the one suffering from the disease;—

| | |
|-------------------------|----|
| Husband with Wife | 17 |
| Wife with Husband | 16 |
| Child with Parent | 2 |
| Parent with Child | 1 |
| Adult with Adult | 13 |
| | — |
| Total | 49 |
| | — |

DURATION OF ILLNESS:—

| | |
|--------------------|-----|
| 1—3 months | 31 |
| 3—6 „ | 54 |
| 6—9 „ | 15 |
| 9—12 „ | — |
| 1—2 years | 3 |
| Institutions | 28 |
| | — |
| Total | 131 |
| | — |

It will be seen from the above table that the average duration of the illness, which will be certainly understated of the 103 persons, not in Institutions, works out at 4·1 months.

The duration of the illness of the 49 persons who did not sleep alone averaged at least 3·5 months each. Thus there had been 49 persons exposed daily for a long period in the closest possible manner.

As regards isolation of the 131 persons suffering from Pulmonary Tuberculosis the possibilities of isolation were as follows:—

| | |
|--------------------|-----|
| Good | 35 |
| Fair..... | 30 |
| Bad | 38 |
| Institutions | 28 |
| | — |
| Total | 131 |
| | — |

Good means that it was easily possible to have room to self. Fair means that the patient could have a bed to self, but would have to share the room with one other person. Bad means that though the patient might have a bed to self, the room had to be shared with two or more persons.

Non-Pulmonary.

SEX AND STATE OF PATIENTS.

| Married. | | Single. | | Children. | | Notified from Institutions. | | Total. |
|----------|----|---------|----|-----------|----|--------------------------------|----|--------|
| M. | F. | M. | F. | M. | F. | M. | F. | |
| 3 | 4 | 4 | 9 | 9 | 8 | 12 | 11 | 60 |

The following are the number of rooms per house in which these persons were living:—

| | |
|--------------------|----|
| 1 Room | — |
| 2 Rooms | 1 |
| 3 „ | 2 |
| 4 „ | 23 |
| Over 4 Rooms | 11 |
| Institutions | 23 |
| | — |
| Total | 60 |
| | — |

CONDITION OF PATIENT.

| | |
|----------------------------|----|
| Bedfast | 2 |
| At Home, not Bedfast | 19 |
| Working | 9 |
| Attending School | 7 |
| Institutions | 23 |
| | — |
| Total | 60 |
| | — |

DURATION OF ILLNESS.

| | |
|----------------------|----|
| Under 3 months | 16 |
| 3—6 months | 10 |
| 6—9 „ | 7 |
| 9—12 „ | 3 |
| 1—2 years | — |
| Over 2 years | 1 |
| Institutions | 23 |
| | — |
| Total | 60 |
| | — |

Deaths.—99 Deaths were recorded: 83 Pulmonary and 16 Non-Pulmonary, giving a death rate of 0·98 per 1,000 of population as against 0·87 in 1927.

The following table gives the death rates for the last 10 years in respect of Pulmonary and other forms of Tuberculosis.

| No. of deaths from Pulmonary Tuberculosis | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 |
|---|------|------|------|------|------|------|------|------|------|------|
| Rate per 1,000 of the population | 0·91 | 0·72 | 0·64 | 0·87 | 0·90 | 0·70 | 0·81 | 0·69 | 0·72 | 0·83 |

| No. of deaths from other forms of Tuberculosis | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 |
|--|------|------|------|------|------|------|------|------|------|------|
| Rate per 1,000 of the population | 0·31 | 0·35 | 0·29 | 0·29 | 0·30 | 0·23 | 0·28 | 0·22 | 0·13 | 0·16 |

With regard to the deaths from Pulmonary Tuberculosis, 28 of these related to new cases notified during the year.

The average age at death of the Pulmonary cases was 38·2 years.

The following figures show the length of time between notification and death of the 83 Pulmonary cases.

| | |
|---|----|
| Under one week | 3 |
| Between one week and one month | 13 |
| Between one month and three months | 10 |
| Between three months and six months | 6 |
| Between six months and one year..... | 9 |
| One to two years | 11 |
| Two to three years | 6 |
| Over three years | 22 |
| Not Notified | 1 |
| Notified after death | 2 |
| Total | 83 |

The 16 deaths from Non-Pulmonary Tuberculosis are classified below.

| | |
|--------------------------------|----|
| Meningitis | 8 |
| Intestine and Peritoneum | 2 |
| Bones and Joints | 3 |
| Other organs..... | 3 |
| | — |
| Total | 16 |
| | — |

Public Health (Prevention of Tuberculosis) Regulations, 1925.— These regulations empower Local Authorities to prohibit persons suffering from tuberculosis of the respiratory tract from entering any employment or occupation in connection with the handling of milk. During the year it was not necessary to take any action under these regulations.

Public Health Act, 1925, Section 62.—It has not been necessary for the Council to take any action during 1928 for the compulsory removal of any tuberculous case to hospital.

TUBERCULOSIS SCHEME.

The scheme consists of the Tuberculosis Dispensary with Tuberculosis Officer and Tuberculosis Nurse and Visitor; 33 hired beds at Meathop Sanatorium and 10 beds at the Infectious Diseases Hospital of the Joint Hospital Board for Burnley and District. Beds have also been requisitioned as required at Papworth, Barrowmore Hall, Ventnor, and St. Vincents and Shropshire Orthopædic Hospitals for special cases.

The Tuberculosis Dispensary.—The Dispensary is situate in Elizabeth Street. The entrance is in Nicholas Street, a very quiet and not much frequented street near the centre of the town. There are three rooms, consisting of a large waiting room, a large consulting room, and a small room for conducting examinations, to which there is access from either of the rooms.

The staff consists of the Medical Officer of Health, who acts as Administrative Tuberculosis Officer, the Senior Assistant and Deputy M.O.H., who is the Clinical Tuberculosis Officer, and one Tuberculosis Nurse.

The Dispensary is open for the examination of patients or of contacts on Monday, Tuesday and Thursday mornings, and Wednesday evenings. Treatment and dressings are carried out each morning except Saturday.

NEW PATIENTS.—There were 207 new cases examined during the year, 26 being seen as contacts.

Of these 207 cases, 130 were diagnosed as tuberculous, 12 were kept under observation to confirm diagnosis or otherwise, and 65 were found to be non-tuberculous.

SUPERVISION OF PATIENTS AND CONTACTS.—All cases are kept systematically under observation and supervision. As a result 4,290 attendances were made at the Dispensary by the patients: 1,898 examinations, 625 injections, 1,581 dressings, 186 medicines, etc. 1,472 visits were paid by the Nurse to the patients' homes. Most of the patients attend the Dispensary. The contacts are also advised to attend for medical examination. 26 contacts presented themselves; there is a general reluctance amongst them to adopt this procedure.

CASES ON THE DISPENSARY REGISTER.—At the beginning of the year 637 cases were on the register. At the end there were 593, 345 Pulmonary, 245 Non-Pulmonary, and in 3 cases the diagnosis was in doubt. During the year 88 cases were written off the register, 9 as cured and 79 where diagnosis was not confirmed or non-tuberculous. 64 died during the year, and 102 were transferred to other areas or "lost sight of."

The following is a copy of a return called for by the Ministry of Health regarding the work done at the Dispensary:—

Return showing the work of the Dispensary during the year 1928.

| DIAGNOSIS. | PULMONARY. | | | | NON-PULMONARY. | | | | TOTAL. | | | |
|--|------------|-----|-----------|----|----------------|----|-----------|----|---------|-----|-----------|----|
| | Adults. | | Children. | | Adults. | | Children. | | Adults. | | Children. | |
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. |
| A.—NEW CASES examined during the year (excluding contacts):— | | | | | | | | | | | | |
| (a) Definitely tuberculous ... | *46 | 33 | 1 | 3 | 6 | 14 | 12 | 13 | 52 | 47 | 13 | 16 |
| (b) Doubtfully tuberculous ... | — | — | — | — | — | — | — | — | 5 | 5 | — | 1 |
| (c) Non-tuberculous ... | — | — | — | — | — | — | — | — | 18 | 14 | 5 | 5 |
| B.—CONTACTS examined during the year:— | | | | | | | | | | | | |
| (a) Definitely tuberculous ... | 1 | 1 | — | — | — | — | — | — | 1 | 1 | — | — |
| (b) Doubtfully tuberculous ... | — | — | — | — | — | — | — | — | — | — | — | 1 |
| (c) Non-tuberculous ... | — | — | — | — | — | — | — | — | 2 | 6 | 9 | 6 |
| C.—CASES written off the Dispensary Register as | | | | | | | | | | | | |
| (a) Cured ... | — | — | — | 1 | 2 | 2 | 3 | 1 | 2 | 2 | 3 | 2 |
| (b) Diagnosis not confirmed or non-tuberculous (including cancellation of cases notified in error) | — | — | — | — | — | — | — | — | 27 | 23 | 15 | 14 |
| D.—NUMBER OF PERSONS on Dispensary Register on December 31st:— | | | | | | | | | | | | |
| (a) Diagnosis completed ... | 186 | 113 | 20 | 26 | 48 | 70 | 65 | 62 | 234 | 183 | 85 | 88 |
| (b) Diagnosis not completed ... | — | — | — | — | — | — | — | — | 1 | 1 | — | 1 |

Total on Register, 31/12/28—593.

| | | | |
|---|------|--|------|
| 1. Number of persons on Dispensary Register on January 1st ... | 637 | 10. Number of consultations with medical practitioners:— | |
| 2. Number of patients transferred from other areas and of "lost sight of" cases returned ... | 3 | (a) At Homes of Applicants ... | 4 |
| 3. Number of patients transferred to other areas and cases "lost sight of" ... | 02 | (b) Otherwise ... | 220 |
| 4. Died during the year ... | 64 | 11. Number of other visits by Tuberculosis Officers to Homes ... | 5 |
| 5. Number of observation cases under A (b) and B (b) above in which period of observation exceeded 2 months ... | 3 | 12. Number of visits by Nurses or Health Visitors to Homes for Dispensary purposes ... | 1472 |
| 6. Number of attendances at the Dispensary (including Contacts) ... | 4290 | 13. Number of | |
| 7. Number of attendances of non-pulmonary cases at Orthopædic Outstations for treatment or supervision ... | 101 | (a) Specimens of sputum, &c., examined ... | 205 |
| 8. Number of attendances, at General Hospitals or other Institutions approved for the purpose, of patients for | | (b) X-ray examinations made in connection with Dispensary work ... | 45 |
| (a) "Light" treatment ... | Nil. | 14. Number of Insured Persons on Dispensary Register on the 31st December ... | 296 |
| (b) Other special forms of treatment (X-ray) | 996 | 15. Number of Insured Persons under Domiciliary Treatment on the 31st December ... | 89 |
| 9. Number of patients to whom Dental Treatment was given, at or in connection with the Dispensary | 64 | 16. Number of reports received during the year in respect of Insured Persons:— | |
| | | (a) Form G.P. 17 ... | 86 |
| | | (b) Form G.P. 36 ... | 112 |

* 1 Case Non-Pulmonary previously written off as 'cured.'

OTHER EXAMINATIONS AT THE DISPENSARY.—208 cases were seen at the Dispensary in addition to the persons dealt with under the tuberculosis scheme, shewn in the return on the preceding page. Out of 198 school children seen, 41 were referred from the School Clinic for Chest examination, 62 as to their suitability for Cod Liver Oil and Malt treatment, 94 in connection with the Open-Air School, and 1 in connection with the Orthopædic Scheme. The 10 remaining cases were for miscellaneous examinations.

In all 1,596 attendances were made: 472 for examination; 256 for Cod Liver Oil and Malt, etc., and 868 for dressings.

Provision of Extra Nourishment, Medicines, etc.—Extra nourishment in the form of milk and eggs is provided in necessitous cases, where, in the opinion of the Tuberculosis Officer, it is a necessary part of the treatment. No cases received extra nourishment during the year. Medicines and Cod Liver Oil and Malt are issued to patients, chiefly uninsured adults and children. During the year 284 lb. tins of Cod Liver Oil and Malt were issued from the Dispensary. Other articles distributed to the patients were Izal 572 tins, Sputum cups 531, and paper handkerchiefs 8,560.

Home Nursing.—There is no provision for the home nursing of tuberculous patients.

Co-operation of Medical Practitioners.—Close contact is kept between the medical man notifying the tuberculous case and the Tuberculosis Officer. In many cases the medical practitioner seeks the aid of the Tuberculosis Officer in making his diagnosis. 224 consultations of this kind were held during 1928. The majority of the cases notified during the year have been entered on the dispensary register as cases for supervision. In the case of persons insured under the National Health Insurance Acts, 86 initial reports on Form G.P. 17 and 112 progress reports were received from panel doctors.

Diagnosis.—Sputum examination.—655 specimens of Sputum were examined at the Municipal Laboratory during the year. 205 of these were sent from the Dispensary.

X-Ray examination for diagnostic purposes was carried out on 45 occasions by means of the apparatus at the Dispensary.

Dental Treatment.—The Ministry of Health have approved of a scheme for dental treatment where such treatment would, in the opinion of the Tuberculosis Officer, materially conduce to the patient's recovery, or in cases where the patient has recovered his health and the treatment is necessary to maintain it after the disease has been arrested.

The Corporation Dentist carries out the treatment at the School Dental Clinic on Wednesday evenings, and the dentures are made by a local dentist.

If dentures are prescribed the patient is expected to contribute towards the cost. This contribution is, in many cases, assisted by the approved society of which the patient is a member.

During the year 46 sessions were held by the Dentist. The following are particulars of the work done:—

| | |
|------------------------------------|-----|
| No. of cases under treatment | 64 |
| No. of attendances | 180 |
| Dentures supplied | 8 |
| Dentures remakes or repairs | 2 |
| Dressings | 12 |
| Fillings | 104 |
| Extractions | 296 |
| Scalings | 6 |
| Local Anæsthetics | 292 |

In addition 10 cases received dental treatment whilst under Sanatorium treatment at Meathop.

The treatment carried out consisted of

| | |
|---------------------------|----|
| No. of Extractions | 11 |
| Dentures..... | 1 |
| Repairs to Dentures | 3 |

SANATORIUM TREATMENT.

43 beds were available for pulmonary cases during the year. 33 of these are hired at the Westmorland Sanatorium, Meathop, near Grange-over-Sands, which is about 60 miles distant.

The other 10 beds are rented from the Burnley Joint Hospital Board, and are in one of the pavilions of the Board's Infectious Diseases Hospital at Marsden Road, about 2 miles from the centre of the town.

In addition beds are hired from time to time at the Royal Hospital for Consumption, Ventnor, Barrowmore Hall, Papworth, and St. Vincent's and Shropshire Orthopædic Hospitals.

The following return shews the extent of residential treatment during 1928.

| Name of Institution. | In Institutions | | Admitted. | Discharged. | Died. | Remaining on Dec. 31st. | |
|--------------------------|-----------------|--------|-----------|-------------|-------|-------------------------|--|
| | Jan. 1st. | | | | | | |
| Meathop ... | M. | 20 ... | 40 ... | 38 ... | 2 ... | 20 | |
| | F. | 12 ... | 29 ... | 28 ... | 1 ... | 12 | |
| | Ch. | 1 ... | — ... | 1 ... | — ... | — | |
| Marsden Road | M. | 6 ... | 8 ... | 11 ... | 3 ... | — | |
| | F. | 3 ... | 15 ... | 16 ... | 2 ... | — | |
| Ventnor | M. | 1 ... | 4 ... | 4 ... | — ... | 1 | |
| Papworth ... | F. | 1 ... | — ... | — ... | — ... | 1 | |
| Barrowmore | M. | — ... | 2 ... | — ... | — ... | 2 | |
| St. Vincent's Orthopædic | M. | — ... | 1 ... | — ... | — ... | 1 | |
| Shropshire Orthopædic | F. | — ... | 1 ... | — ... | — ... | 1 | |
| | | 44 ... | 100 ... | 98 ... | 8 ... | 38 | |

AGES OF CASES ADMITTED.

| Age Group. | | Meathop. | | Marsden Rd. | | Other Sanatoria. | | Total. | |
|------------|-----|----------|----|-------------|----|------------------|----|--------|----|
| | | M. | F. | M. | F. | M. | F. | M. | F. |
| Under 15 | ... | — | — | ... | — | ... | 1 | ... | 1 |
| 15 — 20 | ... | 10 | 5 | ... | — | ... | 1 | ... | 6 |
| 20 — 30 | ... | 13 | 8 | ... | 2 | ... | 9 | ... | 17 |
| 30 — 40 | ... | 7 | 12 | ... | 3 | ... | — | ... | 15 |
| 40 — 50 | ... | 5 | 3 | ... | 4 | ... | 2 | ... | 5 |
| Over 50 | ... | 5 | 1 | ... | 2 | ... | 1 | ... | 2 |
| | | 40 | 29 | ... | 8 | ... | 15 | ... | 45 |

The following is a summary of the results of treatment of the persons discharged from residential institutions during the year.

MEATHOP SANATORIUM.

| Classification. | | Quiescent | | Improved | | No Material Improvement | | Died in Institution | | Total |
|-----------------|-----|-----------|-----|----------|-----|-------------------------|-----|---------------------|-----|-------|
| Pulmonary | M. | 19 | ... | 14 | ... | 5 | ... | 2 | ... | 40 |
| | F. | 13 | ... | 6 | ... | 7 | ... | 1 | ... | 27 |
| | Ch. | 1 | ... | — | ... | — | ... | — | ... | 1 |
| Non-Pulmonary | M. | — | ... | — | ... | — | ... | — | ... | — |
| | F. | — | ... | 1 | ... | 1 | ... | — | ... | 2 |
| | | 33 | ... | 21 | ... | 13 | ... | 3 | ... | 70 |

MARSDEN ROAD SANATORIUM.

| Classification | | Quiescent | | Improved | | No Material Improvement | | Died in Institution | | Total |
|----------------|----|-----------|-----|----------|-----|-------------------------|-----|---------------------|-----|-------|
| Pulmonary | M. | — | ... | 4 | ... | 7 | ... | 3 | ... | 14 |
| | F. | — | ... | 5 | ... | 9 | ... | 2 | ... | 16 |
| Non-Pulmonary | M. | — | ... | — | ... | — | ... | — | ... | — |
| | F. | — | ... | 2 | ... | — | ... | — | ... | 2 |
| | | — | ... | 11 | ... | 16 | ... | 5 | ... | 32 |

VENTNOR, ISLE OF WIGHT.

| Classification | | Quiescent | | Improved | | No Material Improvement | | Died in Institution | | Total |
|----------------|----|-----------|-----|----------|-----|-------------------------|-----|---------------------|-----|-------|
| Pulmonary | M. | — | ... | 3 | ... | 1 | ... | — | ... | 4 |

Other Forms of Tuberculosis.—No beds are retained for treating this type of case. Cases sometimes are sent to the two Sanatoria in place of Pulmonary cases or to an Orthopædic Hospital.

Provision is made for the treatment by X-Ray of glandular and lupus cases. These cases are treated by an approved radiologist at his local surgery. 51 cases which had been referred by the Tuberculosis Officer were under treatment during the year. The patients made 996 attendances. The average number of treatments per case was 20.

The following are the details respecting them:—

| Ages | Under 10 | 10 to 15 | 15 to 20 | 20 to 25 | 25 to 30 | 30 to 35 | 35 to 40 | 40 to 45 | 45 to 50 | 50 to 55 | 55 to 60 | Over 60 | Total |
|-----------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------|-------|
| Males ... | 1 | 4 | 2 | 2 | 1 | — | 1 | 1 | — | — | — | — | 12 |
| Females | 3 | 6 | 3 | 7 | 4 | 4 | 2 | 3 | 3 | 3 | — | 1 | 39 |

| Diagnosis. | Skin. | Glands. | Total. |
|----------------|-------|---------|--------|
| Males | 9 | 3 | 12 |
| Females | 24 | 15 | 39 |

| Results of Treatment. | Males. | Females. |
|-------------------------|--------|----------|
| Disease arrested | 3 | 9 |
| Improved | 1 | 7 |
| Improving | 8 | 23 |
| | — | — |
| | 12 | 39 |
| | — | — |

Section 8.

Venereal Diseases.

Venereal Diseases Treatment Centre and Public Health Laboratory.

The Treatment Centre is about $1\frac{1}{2}$ miles from the centre of the town, but is of easy access, as the trams passing close by connect it with all parts of the town. It is in the grounds of the Victoria Hospital, an Institution containing over 100 beds. Arrangements have been made for beds in the Hospital for such venereal cases as require in-patient treatment. A Nurse from the Hospital also acts as female orderly at the Treatment Centre. The staff employed by the Local Sanitary Authority consists of a Medical Officer, who is also the Municipal Bacteriologist, and two male orderlies for the Treatment Centre and the Laboratory.

The Centre is open at the following times:—

FOR MEN: Mondays 10 to 11 a.m. and 5-30 to 6-30 p.m.
 Thursdays, 5-30 to 6-30 p.m.

FOR WOMEN: Fridays, 11 to 12 noon. 5-30 to 6-30 p.m.

In addition, patients coming to the Treatment Centre for the first time may attend at 10 o'clock on any morning except Sundays.

The hours of attendance of patients for intermediate treatment are 10 to 11 o'clock in the morning, and 5-30 to 6-30 o'clock in the evening, except Sundays, but other times are frequently arranged to suit individual cases. Enamel plaques giving particulars of facilities for treatment are exhibited in all the public conveniences in the town.

There were 461 cases under treatment during the year, and of these 219 were cases who attended for the first time.

Below are given the particulars of the 461 cases :—

| | Syphilis. | | Soft Chancre. | | Gonorrhœa. | | Conditions other than Venereal. | | TOTAL. | |
|--|-----------|-----|---------------|----|------------|-----|---------------------------------|----|--------|------|
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. |
| 1. Number of cases which— | | | | | | | | | | |
| (a) at the beginning of the year under report were under treatment or observation for | 84 | 60 | — | — | 71 | 4 | 2 | — | 157 | 64 |
| (b) had been marked off in a previous year as having ceased to attend or as transferred to other Centres, and which returned to the Treatment Centre during the year under report suffering from the same infection | 2 | 8 | — | — | 7 | 3 | 1 | — | 10 | 11 |
| TOTAL—Items 1 (a) and 1 (b) | 86 | 68 | — | — | 78 | 7 | 3 | — | 167 | 75 |
| 2 (a). Number of cases dealt with at the Treatment Centre during the year for the first time | 44 | 33 | — | 1 | 98 | 12 | 31 | — | 173 | 46 |
| TOTAL*—Items 1 (a), 1 (b) & 2(a) | 130 | 101 | — | 1 | 176 | 19 | 34 | — | 340 | 121 |
| 3. Out-patient attendances— | | | | | | | | | | |
| (a) For individual attention by the Medical Officer... | 1081 | 833 | — | 6 | 936 | 129 | 88 | — | 2105 | 968 |
| (b) For intermediate treatment, e.g., irrigation, dressings, etc. | — | — | — | — | 2453 | 128 | — | — | 2453 | 128 |
| TOTAL ATTENDANCES ... | 1081 | 833 | — | 6 | 3389 | 257 | 88 | — | 4558 | 1096 |
| 4. Aggregate number of "In-patient days" of treatment given to persons who were suffering from. | — | — | — | 33 | 9 | 47 | — | — | 9 | 80 |

The following particulars relate to the new cases residing in Burnley:—

| | 1928 | 1927 | 1926 | 1925 | 1924 | 1923 | 1922 | 1921 | 1920 |
|---|------|------|------|------|------|------|------|------|------|
| Number of Burnley persons dealt with during the year at or in connection with the out-patient Clinic for the first time, and found to be suffering from:— | | | | | | | | | |
| Syphilis | 49 | 63 | 39 | 35 | 49 | 59 | 78 | 107 | 140 |
| Soft Chancre | — | — | — | — | — | — | — | 1 | 7 |
| Gonorrhœa | 54 | 58 | 42 | 56 | 36 | 37 | 32 | 66 | 67 |
| Conditions other than Venereal | 14 | 27 | 31 | 30 | 12 | 50 | 39 | 46 | 65 |
| Total | 117 | 148 | 112 | 111 | 97 | 146 | 149 | 220 | 279 |
| Total number of attendances at the Out-patient Clinic of patients residing in Burnley | 3762 | 3940 | 4012 | 3105 | 2931 | 2652 | 2776 | 3137 | 3288 |
| Aggregate number of "In-patient Days" of patients residing in Burnley | 9 | 51 | 30 | 25 | 66 | 232 | 154 | 294 | 411 |
| Number of doses of Salvarsan substitutes given in the— | | | | | | | | | |
| 1. Out-patient Clinic ... | 706 | 786 | 520 | 579 | 644 | 760 | 1051 | 1294 | 1376 |
| 2. In-patient Department | — | — | — | — | 9 | — | 29 | 41 | 64 |

Supplies of Arsenobenzene Compounds.—These are available at the Public Health Department for private medical practitioners whose names are upon the approved register. Nine doctors on the list, together with the House Surgeons at the Victoria Hospital, availed themselves of this free supply. 372 doses were supplied to them as follows:—

| | |
|------------------------|-----|
| Stabilarsan | 84 |
| Novarsenobillon | 55 |
| Neokharsivan... .. | 227 |
| Sulfarsenol | 6 |

Pathological Examinations.—These are carried out at the Municipal Laboratory by the Medical Officer of the Treatment Centre, who also acts as the Municipal Bacteriologist.

During the year 1,116 examinations were made:—

| | |
|---------------------------|-----|
| For Spirochetes | 8 |
| „ Gonococci | 282 |
| „ Wassermann Reaction ... | 826 |

Of these 1,116 examinations 697 related to Burnley residents, as follows:—

| Nature of Test. | | Number of Tests. |
|-------------------------------------|--------------------------|------------------------|
| For detection of spirochetes | For Treatment Centre ... | 7 |
| | For Practitioners | — |
| For detection of gonococci | For Treatment Centre ... | 129 |
| | For Practitioners | 47 |
| For Wassermann reaction | For Treatment Centre ... | 175 |
| | For Practitioners | 339 |
| Other examinations | For Treatment Centre ... | — |
| | For Practitioners | — |
| | TOTALS | 697 |

Venereal Diseases Act, 1917.—No action has been taken during the year in respect of restriction on advertisements or for the prevention of the treatment of Venereal Disease otherwise than by duly qualified persons.

Section 9.

Maternity and Child Welfare.

Births.—The Notification of Births Acts require that all births should be notified to the Medical Officer of Health within 36 hours of occurrence.

During the year 1928, 1,575 notifications were received relating to 1,492 live births and 83 stillbirths. During the corresponding period 1,501 live births and 82 stillbirths were registered by the Registrar of Births and Deaths.

The 1,575 births were notified by the following:—

| | | | | | |
|--|-----|-----|-----|-----|-------|
| Midwife (including births at the Maternity | | | | | |
| Hospital) | ... | ... | ... | ... | 1,048 |
| Doctor | ... | ... | ... | ... | 499 |
| Parent | ... | ... | ... | ... | 12 |
| Other person | ... | ... | ... | ... | 16 |
| | | | | | <hr/> |
| | | | | | 1,575 |
| | | | | | <hr/> |

Very little difficulty has been experienced in the working of this Act, as only 18 persons had to be communicated with regarding non-notification.

Births notified by medical men and by trained midwives are not visited until ten days at least have elapsed. The majority of the others are visited as soon as possible after notification.

Attendance at Birth.—The Health Visitors enquiries shewed that of the live births 344 were attended by doctors, 215 by a doctor and midwife, 497 by midwives, and 18 by handywomen. The rest were born in Institutions (380 in the Maternity Hospital and 56 in the Infirmary).

Health Visiting.—The Health Visitors' work is supervised by the Superintendent Health Visitor, who also acts as Inspector of Midwives. The Health Visitors all fulfil the conditions of the Maternity and Child Welfare Act, and the recommendation of the Ministry of Health as regards qualifications for these duties. The Superintendent and 6 of the Visitors are trained nurses. The

Superintendent holds the C.M.B. Certificate, and the Sanitary Inspectors' Certificate of the Royal Sanitary Institute. Six of the Health Visitors also hold the C.M.B. Certificate. Being fully trained allows interchanging of duties, but, as a general rule, each Visitor is kept to one particular kind of work, and, as far as possible, to one district. One acts as Tuberculosis Nurse and Visitor, three as School Nurses and Visitors, and four devote themselves to Maternity and Child Welfare work.

The duties of the Visitors engaged on Maternity and Child Welfare work are, in the first place, to visit houses where there are newly-born children; to advise the mother, if necessary, as to the care of her child. The Visitors have each a district. The routine of visiting infants consists of a visit as soon after birth as possible, except in those cases where a medical man or midwife has been in attendance, when a visit is usually paid at the end of 10 days. Re-visits are paid every 3 months, and oftener where necessary. Visits are paid to children over 1 year of age as often as is practicable, an endeavour being made to visit each child at least once a year, until it attains school age.

In addition to these routine visits, special visits are paid when illness is known or thought to exist, and a doctor is not attending.

Details of the Health Visitors' work are shewn on page 108.

Midwives' Acts.—30 Midwives notified their intention to practice during the year, compared with 33 in 1927. 9 of these notifications related to nurses in the Municipal Maternity Hospital and the Infirmary. The 21 midwives practising externally included 14 trained and 7 bona fide. 582 confinements were attended by them as follows:—

| | | | Certificated. | | Bona fide. | | Total. |
|--|-----|-----|---------------|-----|------------|-----|--------|
| No. of Midwives in practice | ... | ... | 14 | ... | 7 | ... | 21 |
| No. of Confinements attended by the 21 | | | | | | | |
| Midwives | ... | ... | 297 | ... | 200 | ... | 497 |
| No. of calls for medical aid | ... | ... | 76 | ... | 28 | ... | 104 |

Altogether 104 records of sending for medical help under Rule E. 20 of the Central Midwives' Board were received from Midwives compared with 89 last year.

The details are as follows:—

| | | | | | | |
|-----------------------|-----|--------------------|---------------|------------------|--------------------|---------------|
| Calls for Medical Aid | | ... | ... | ... | ... | 104 |
| For Mother—95 | | For Child—9 | | | | |
| | | Certi- ficated. | Bona fide. | | Certi- ficated. | Bona fide. |
| Adherent Placenta | ... | 2 | 3 | Feebleness or | | |
| Ruptured Perinæum | ... | 15 | 12 | Premature | ... | 1 |
| Delayed Labour | ... | 21 | — | Discharging Eyes | 3 | 1 |
| Rise of Temperature | ... | 1 | — | Intestinal | | |
| Ante Natal | ... | 15 | — | Obstruction | ... | — |
| Ante Partum | | | | Skin Affection | ... | — |
| Hæmorrhage | ... | 6 | 3 | Spina Bifida | ... | 1 |
| Abortion | ... | 4 | — | Unclassified | ... | 2 |
| Malpresentation | ... | 3 | 1 | | | |
| Unclassified Illness | ... | 5 | 4 | | | |

Other notifications received related to 30 stillbirths, 11 exposure to infection, death of mother or child 12, artificial feeding 16, laying out dead 6.

As shewn above, medical aid was sent for on 104 occasions, but only 13 of these were dealt with as cases of emergency in accordance with section 14 of the Midwives' Act, 1918.

75 visits were paid by the inspector to the midwives during the year. The Inspector also interviewed midwives at the Health Office on several occasions.

INFANT WELFARE CENTRES.

There are 6 Centres for this purpose, namely the Clinic at Bank Hall Maternity and Children's Hospital, Parker Street, Ebenezer School, Lane Bridge School, Mount Olivet School and Lowerhouse School.

The first two are owned by the Corporation and the others are rented from the various school authorities.

Attendances.—There were 1,278 primary attendances at the Infant Welfare Centres. These included 855 infants, 398 children over 1 year of age, and 25 Expectant Mothers. The total attendances amounted to 13,187.

Consultations at the Centres.—The following table gives the reason for the first consultation.

| | | Infants. | | Toddlers. |
|-------------------------|-----|----------|-----|-----------|
| Disorders of digestion | ... | 143 | ... | 26 |
| Congenital Defects | ... | 32 | ... | 12 |
| Minor Ailments | ... | 165 | ... | 206 |
| General or Unclassified | ... | 22 | ... | 28 |
| | | — | | — |
| Totals | ... | 362 | ... | 272 |
| | | — | | — |

Particulars of work at the various Infant Welfare Centres during the year.

| | Parker Street. | Ebenezer School. | Mount Olivet School. | Lane Bridge. | Lower-house. | Bank Hall Hospital. | Total |
|--------------------------|----------------|------------------|----------------------|--------------|--------------|---------------------|-------|
| Sessions held | 51 | 43 | 45 | 43 | 46 | 99 | 327 |
| Primary attendances:— | | | | | | | |
| Infants | 102 | 155 | 73 | 144 | 45 | 336 | 855 |
| Children | 102 | 45 | 25 | 34 | 20 | 172 | 398 |
| Expectant Mothers | 14 | 5 | 2 | 4 | — | — | 25 |
| Total Attendances:— | | | | | | | |
| Infants | 768 | 1773 | 539 | 1372 | 346 | 3412 | 8210 |
| (Average per Session) | 15.0 | 41.2 | 12.0 | 31.9 | 7.5 | 34.5 | |
| Children over 1 year | 471 | 884 | 175 | 1126 | 266 | 1996 | 4918 |
| (Average per session) | 9.2 | 20.6 | 3.9 | 26.2 | 5.8 | 20.2 | |
| Expectant Mothers | 31 | 9 | 2 | 17 | — | — | 59 |
| (Average per session) | 0.6 | 0.5 | — | 0.4 | — | — | |
| Doctors' Attendances | 37 | 21 | 31 | 34 | 21 | 99 | 243 |
| Doctors' Consultations:— | | | | | | | |
| Infants | 173 | 185 | 130 | 135 | 85 | 331 | 1039 |
| Children over 1 year | 145 | 56 | 45 | 52 | 43 | 154 | 495 |
| Weighings:— | | | | | | | |
| Infants | 768 | 1464 | 539 | 1355 | 346 | 3256 | 7728 |
| Children over 1 year | 471 | 485 | 175 | 522 | 266 | 1728 | 3647 |

Ante Natal Centres.—Sessions are held twice weekly at Bank Hall Hospital, and once weekly at Parker Street, and at Lowerhouse. Particulars of the attendances are here given.

| CENTRE. | No. of Expectant Mothers attending for the first time. | | | | | Total Attendances | Average per Session. | | Doctors' Consultations. | |
|--------------------|--|-----|-----|-----|------|-------------------|----------------------|-----|-------------------------|------|
| | Times open. | | | | | | | | | |
| Bank Hall Hospital | 150 | ... | 427 | ... | 2217 | ... | 14.8 | ... | 834 | |
| Parker Street | ... | 47 | ... | 88 | ... | 213 | ... | 4.5 | ... | 213 |
| Lowerhouse | ... | 46 | ... | 2 | ... | 18 | ... | 0.4 | ... | 20 |
| Totals | ... | 243 | ... | 517 | ... | 2448 | ... | ... | ... | 1067 |

BANK HALL MATERNITY AND CHILDREN'S HOSPITAL.

20 beds for Maternity cases are provided at the above Municipal Institution, and there is also accommodation for 24 ailing children. The following rules and conditions of admission apply to Maternity cases:—

RULES.

1. That the Medical Officer of Health be authorised to admit patients to the Hospital in the following order:—

- (i) Women whose confinement, in the opinion of the Medical Officer of Health is likely to be attended with complications which might prove dangerous if the confinement took place at home.
- (ii) Maternity cases which the Medical Officer of Health is satisfied on the representation of a Medical Practitioner, require immediate institutional treatment.
- (iii) Women who, in the opinion of the Medical Officer of Health, require antenatal Hospital treatment.
- (iv) Ordinary cases of confinement.

CONDITIONS OF ADMISSION.

2. All women admitted under the four above-mentioned rules will be asked to pay in accordance with their means.

All requests for remission of fees shall come before the Special Sub-Committee, who will fix the amount to be paid in accordance with a scale. The usual fee will be four guineas per week and upwards. If a patient is willing to pay the amount demanded, and makes no request for remission, then consequent enquiries as to means will be unnecessary and will not be made.

3. The usual amount charged for women admitted under Rule (iii) for treatment before confinement on the advice of the Medical Officer of the Institution, will be 3/- per day.

4. Maternity Benefits receivable under the National Health Insurance Act shall be applied to the payment of any of these charges as soon as an account is received by the patient and her husband.

5. An undertaking shall be signed by the patient and her husband to pay the amount fixed by the Committee.

6. All cases wishing to go into Bank Hall for ordinary confinements will be expected to pay a deposit towards the account. The deposit may be paid by instalments.

7. The following Scale of Income shall be applied to requests for reduction of fees for maternity cases coming within Rule 1 (i), (ii) and (iv):—

- (1) Where the net weekly income of the family does not exceed 50/-, the payment shall be one guinea for the first week or part thereof, and 3/- per day after the first week.
- (2) Where the net weekly income of the family is over 50/-, but does not exceed 60/-, the payment shall be two guineas for the first week or part thereof, and 6/- per day after the first week.
- (3) Where the net weekly income of the family is over 60/-, but does not exceed 80/-, the payment shall be three guineas for the first week or part thereof, and 9/- per day after the first week.
- (4) Where the net weekly income of the family is over 80/-, but does not exceed 100/-, the payment shall be four guineas for the first week or part thereof, and 12/- per day after the first week.
- (5) Where the net weekly income of the family is over 100/-, the payment shall be five guineas for the first week or part thereof, and 15/- per day after the first week.

NOTE.—In calculating the net weekly income, the weekly average income from all sources for 13 weeks prior to the date of the application shall be taken and a deduction made therefrom of 5/- for each child under 14 years.

PATIENTS RESIDING OUTSIDE THE BOROUGH.

Provided there is accommodation not likely to be required for Burnley patients, patients residing outside the Borough may be admitted.

The minimum charge will be £4 4s. per week in all cases. A fortnight's fees (£8 8s.) must be paid in advance.

The Children's Ward is for those young children who, though not really hospital cases, still require, on account of home conditions, some medical or skilled care which they cannot get in their homes. The Clinic is used for the instruction of expectant mothers, midwives, home helps, etc.

No charge is made for cases admitted to the Children's Ward.

SUMMARY OF WORK.

CHILDREN'S HOSPITAL.

| | | | | | |
|--------------------------|-----|-----|-----|-----|------------|
| No. of Beds | ... | ... | ... | ... | 24 |
| Admissions | ... | ... | ... | ... | 117 |
| Average stay in hospital | ... | ... | ... | ... | 78.9 days. |

MATERNITY HOSPITAL.

| | | | | | | |
|-------------|-----|-----|-----|-----|-----|-----|
| No. of Beds | ... | ... | ... | ... | ... | 20 |
| Admitted | ... | ... | ... | ... | ... | 417 |
| Births | ... | ... | ... | ... | ... | 400 |

ANTE AND POST NATAL CLINIC.

| | | | Number who attended for the first time. | | Total Attendances. |
|-------------------|-----|-----|---|-----|-----------------------|
| Infants | ... | ... | 336 | ... | 3,412 |
| Children | ... | ... | 172 | ... | 1,996 |
| Expectant Mothers | ... | ... | 427 | ... | 2,217 |
| | | | — | | — |
| Totals | ... | ... | 935 | ... | 7,625 |
| | | | — | | — |

Ante-Natal Clinics are held on Monday and Wednesday mornings and Friday evenings. The Medical Officer attends at the Monday morning Clinic.

The Infant Clinics are held twice weekly on Monday and Wednesday afternoons, and are attended by the Medical Officer each session.

Ultra Violet Light Clinic.

In February a Sunlight Clinic at Bank Hall Hospital was opened. The lamp and the hut in which treatment takes place were purchased by the Bank Hall Ladies' Guild and handed over to the Corporation.

The following gives particulars of the type of lamp used, method and the results of treatment.

Type of lamp used:—K.B.B. Quartz Mercury Vapour lamp with air-cooled atmospheric burner. Voltage:—220 Direct current. Amperage:—Starts up at about 5 amperes but settles down to burn at 2.5 amperes.

METHOD.—General irradiations, front and back, given twice weekly, starting at 2 minute exposures, increased weekly by one minute, till an exposure of 12 minutes is attained.

Treatment started 13th February, 1928, and continued to June 30th. Re-started October 1st and continued to December.

| | | |
|---|--------|-------|
| Number treated—In-patients (at Bank Hall) | ... | 52 |
| Out-patients | ... .. | 77 |
| | | <hr/> |
| Total | ... .. | 129 |
| | | <hr/> |

IN-PATIENTS.

AGE.—All were under school age, varying from 2 months to 3 years.

Type of Case treated.

(a) RICKETS.—32 cases treated.

6 showed marked improvement.
26 showed some improvement.

Total ... 32

NOTE.—The 6 cases showing marked improvement were early cases of Rickets occurring in children under 2 years and with only slight deformities.

(b) MARASMUS.—11 cases treated.

4 showed marked improvement.
3 showed some improvement.
4 showed no improvement.

Total ... 11

NOTE.—The foregoing Marasmus cases were all under 1 year of age, varying from 2 months to 6 months.

(c) ANÆMIA AND DEBILITY.—7 cases treated.

2 showed great improvement.
4 showed some improvement.
1 showed no improvement.

Total ... 7

(d) CERVICAL ADENITIS.—1 case treated with good results.

(e) SUB-MAXILLARY SINUSES.—1 case treated and discharged cured.

OUT-PATIENTS.

Number treated—77. Source—General Practitioners 12, I.W.C.'s 42, School Clinic 23.

Type of Case treated.

(a) RICKETS.—26 cases.

16 did not attend regularly, though showing some improvement.

6 showed marked improvement.

4 showed no improvement.

Total ... 26

NOTE.—The above were all under school age, varying from 18 months to 3 years.

(b) ANÆMIA AND DEBILITY following Pneumonia and Whooping Cough.—37 cases.

21 greatly improved.

4 treatment suspended owing to child becoming ill during course.

5 did not attend regularly.

7 did not show any marked change.

Total ... 37

NOTE.—The above children varied in age from 2 years to 8 years.

(c) ALOPECIA AREATA.—3.

1 discharged with hair growing well.

1 discharged because no improvement.

1 having treatment at time of writing.

NOTE.—The above, who were all of school age, had local irradiations to the scalp, as well as general irradiation.

(d) EYE CONDITIONS.—Corneal Ulcers, Phlyctenular Conjunctivitis with Iritis.

4 cases treated (General Irradiations).

1 discharged cured.

1 did not attend regularly.

2 much improved.

Total ... 4

NOTE.—These children were of school age.

(e) INFANTILE PARALYSIS.

1 such case started treatment but did not attend regularly.

NOTE.—This child was under school age.

(f) OEDEMA NEONATORUM.

1 such case started treatment but did not attend regularly.

NOTE.—Infant aged 2 months.

(g) CERVICAL ADENITIS.—2 cases treated.

1 discharged greatly improved.

1 discharged improved.

Total ... 2

NOTE.—These children were just of school age.

(h) MARASMUS.

1 case started treatment but mother failed to attend regularly.

NOTE.—This infant was 4 months old.

(i) ECZEMA.

1 such case started treatment at request of a local Practitioner, but as condition got rapidly worse, only 3 applications were given.

NOTE.—Child was under school age.

(j) T.B. DACTYLITIS.—1 case treated.

The Dactylitis was unaffected, but child's general condition showed improvement. This child was under school age.

Supply of Milk to Expectant and Nursing Mothers and Young Children.—
200 families were in receipt of assistance during the year as follows:—

| | No. Assisted. | | No. of Renewals. | | Amount of Milk Granted | |
|-------------------|---------------|-------------|------------------|-------------|------------------------|-----------------|
| | Fresh Milk. | Dried Milk. | Fresh Milk. | Dried Milk. | Fresh. Pints. | Dried. Pkts. |
| Children | 208 | 24 | 552 | 36 | 21,280 | 240 |
| Nursing Mothers | 29 | — | 59 | — | 2,464 | — |
| Expectant Mothers | 18 | — | 16 | — | 952 | — |
| | — | — | — | — | — | — |
| Totals | 255 | 24 | 627 | 36 | 24,696 | 240 |
| | — | — | — | — | — | — |

Each case is investigated and grants are made in accordance with a Scale of Income. The cases are reviewed at the end of 4 weeks if an application for renewal is made.

3 Expectant Mothers were granted free dinners during the year. Dinners were supplied at the National Kitchens, Garden Street, for one month. In all 85 dinners were supplied.

Home Nursing.—The Council has an arrangement with the Burnley District Nursing Association to provide Home Nursing services for the following cases:—Expectant Mothers, Maternity Nursing, Nursing of Puerperal Fever and Pyrexia, Nursing of Ophthalmia Neonatorum, and of Measles, Whooping Cough and Epidemic Diarrhoea in young children.

3 cases of Ophthalmia, 1 of Puerperal Fever and 1 of Puerperal Pyrexia were referred to the Association. In all the District Nurse paid 119 visits.

Home Helps.—In necessitous cases a Home Help is sent to cases of confinement. During the year one mother was assisted.

Dental Treatment.—The scheme for the dental treatment of Expectant and Nursing Mothers and young children commenced in November, 1925. Cases are referred by the Medical Officers from the various Ante-Natal and Infant Welfare Clinics, and are dealt with by the Corporation dentist at the School Dental Clinic on Thursday afternoons. The following gives details of the work carried out during the year:—

| No. of Cases. | | | Attend- ances. | Extrac- tions. | Anæsthetics. | | | | Fillings. | Dressings. | | | |
|---------------|-----|-----|-------------------|-------------------|--------------|----------|----|-----|-----------|------------|---|-----|---|
| | | | | | Local | General. | | | | | | | |
| 3 Mothers | ... | ... | 5 | ... | 4 | ... | 4 | ... | 1 | ... | 3 | ... | 1 |
| 16 Children | ... | ... | 16 | ... | 49 | ... | 49 | ... | — | ... | 4 | ... | 6 |

Maternal Mortality.—There were 5 women who died in or in consequence of childbirth, as compared with 12 in 1927. This is equivalent to 3.33 per 1,000 births, compared with 7.9 in 1927, 3.7 in 1926, 7.3 in 1925, 12.9 in 1924, 3.3 in 1923, and 2.6 in 1922.

The registered causes of death were:—

| | | | | | | |
|-----------------------------|-----|-----|-----|-----|-----|---|
| Miscarriage | ... | ... | ... | ... | ... | 1 |
| Pregnancy: Cæsarean Section | ... | ... | ... | ... | ... | 1 |
| Childbirth | ... | ... | ... | ... | ... | 1 |
| Post Puerperal Elampsia | ... | ... | ... | ... | ... | 2 |

Infant Mortality.—Reference to this is made on page 21 of the Report.

Stillbirths.—The number of stillbirths notified during the year was 83, compared with 76 in 1927.

56 of the stillbirths occurred at home, 20 in the Maternity Hospital, 5 in the Infirmary, 1 in the Victoria Hospital and 1 in a private Maternity Home. The notifications shewed that 49 of the stillbirths were Males and 23 Females. In one instance the sex was not stated. In 43 cases the foetus was full term, in 34 premature, and in 6 cases the period was not stated. In one case the age of the mother was under 20 years, in 19 cases between 20 and 25 years, 28 between 25—30, 8 between 30—35, 13 between 35—40, and 6 over 40 years. The age was not ascertained in 8 cases.

36 mothers were housewives, 39 working mothers, and 8 not stated.

In 28 of the cases it was a first pregnancy.

In 3 of the cases there was a history of a previous stillbirth or miscarriage.

The following information was ascertained by the Superintendent Health Visitor respecting the cases:—

12 of the women were delivered by forceps.

3 blamed a fall or shock as the cause of stillbirth.

1 mother had Heart Disease.

1 mother had Elampsia.

3 Placenta Prævia and 2 Adherent Placenta.

4 had suffered from Albuminuria of pregnancy.

1 had Induction.

5 were Breech presentations and 1 Transverse, and 2 Face.

1 had a Cæsarean Section performed.

In 4 cases the mothers had Ante partum hæmorrhage and in 3 cases post partum hæmorrhage.

3 of the Mothers died.

8 of the stillbirths were macerated.

There was a notification of Puerperal Pyrexia in 5 instances and of Puerperal Fever in one instance.

Puerperal Fever.—4 cases of Puerperal Fever were notified. This is 2·66 per 1,000 births, compared with 4·0 in 1927. One case was nursed at home and the other 3 were treated in Hospital.

The incidence and Mortality rates for the last 10 years are given below.

| | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 |
|-------------------|------|------|------|------|------|------|------|------|-------|------|
| Morbidity rate | | | | | | | | | | |
| per 1,000 Births | 3·12 | 1·22 | 3·83 | 1·53 | 1·08 | 2·35 | 2·4 | 1·2 | 4·0 | 2·7 |
| No. of Deaths ... | 5 | 1 | 5 | — | — | — | — | 1 | 1 | — |
| Mortality | | | | | | | | | | |
| per 1,000 cases | 500 | 333 | 555 | — | — | — | — | 500 | 166·6 | — |

Puerperal Pyrexia.—The regulation defines puerperal pyrexia as “any febrile condition (other than a condition which is required to be notified as puerperal fever under the Infectious Disease (Notification) Acts), occurring in a woman within 21 days after childbirth or miscarriage in which a temperature of 100·4° Fahrenheit (38° Centigrade) or more has been sustained during a period of 24 hours or has recurred during that period.”

An Obstetric Consultant has been appointed under the Puerperal Fever and Puerperal Pyrexia Regulations. 2 cases were referred to him for a second opinion during the year.

28 Notifications of Puerperal Pyrexia were received during the year. 5 cases were removed to Hospital, 8 occurred in Bank Hall Maternity Hospital and 2 in the Victoria Hospital.

Ophthalmia Neonatorum.—Six cases of Ophthalmia Neonatorum were notified during 1928. The Incidence of this disease per 1,000 births for the last 5 years is as follows:—

| | 1924 | 1925 | 1926 | 1927 | 1928 |
|--------------------------------------|------|------|-------|------|------|
| Number of Cases ... | 21 | 11 | 18 | 11 | 6 |
| Rate per 1,000 registered births ... | 12·3 | 6·6 | 11·25 | 7·3 | 4·0 |

The following table, suggested by the Ministry, gives a summary of the results of treatment.

| | 1924 | 1925 | 1926 | 1927 | 1928 |
|---------------------------------|------|------|------|------|------|
| Cases Notified ... | 21 | 11 | 18 | 11 | 6 |
| Treated at Home ... | 16 | 9 | 12 | 9 | 3 |
| Treated at Hospital ... | 5 | 2 | 6 | 2 | 3 |
| Vision unimpaired ... | 21 | 9 | 14 | 11 | 6 |
| Vision impaired ... | — | — | — | — | — |
| Total blindness ... | — | — | 1 | — | — |
| Deaths ... | — | 1 | 2 | — | 1 |
| No history (out of Borough) ... | — | — | 1 | — | — |

As regards the 1928 cases, the 3 treated at home were attended to by the District Nurse in accordance with our Home Nursing arrangements.

DETAILS OF WORK OF THE HEALTH VISITORS DURING 1928.

MATERNITY AND CHILD WELFARE.

Visits to:—

| | | | | | | |
|-------------------------------|-----|-------|-----|-----|-----|--------|
| Expectant Mothers (115 cases) | ... | ... | ... | ... | ... | 187 |
| Visits to newly born infants | ... | 1,481 | | | | |
| Re-visits—1st year | ... | 6,727 | | | | |
| 2nd „ | ... | 2,920 | | | | |
| 3rd „ | ... | 2,866 | | | | |
| 4th „ | ... | 2,321 | | | | |
| 5th „ | ... | 1,926 | ... | ... | ... | 18,241 |

Visits to:—

| | | | | | | |
|---|-----|-----|-----|-----|-----|-----|
| Ophthalmia Neonatorum (6 cases) | ... | ... | ... | ... | ... | 20 |
| Diarrhoea (9 cases) | ... | ... | ... | ... | ... | 14 |
| Measles cases | ... | ... | ... | ... | ... | 31 |
| Whooping Cough (26 cases) | ... | ... | ... | ... | ... | 40 |
| Infantile deaths | ... | ... | ... | ... | ... | 104 |
| Stillbirths | ... | ... | ... | ... | ... | 78 |
| Puerperal Fever and Pyrexia cases | ... | ... | ... | ... | ... | 16 |
| Midwives | ... | ... | ... | ... | ... | 75 |
| Number of Sessions at the Infant Welfare Centres | ... | ... | ... | ... | ... | 228 |
| Number of Attendances at the Centres by the Health Visitors | ... | ... | ... | ... | ... | 316 |

TUBERCULOSIS.

| | | |
|---|-----|-------|
| No. of Sessions held at the Dispensary (Day, 246 ; Evening, 49) | ... | 295 |
| Visits to Tuberculous cases (New cases, 168 ; Re-visits, 1,472) | ... | 1,640 |
| Patients' Attendances (Tuberculosis, 4,290 ; Other, 1,596) | ... | 5,886 |

SCHOOL MEDICAL SERVICE.

| | | |
|--|-----|--------|
| No. of days on which the Clinic was open | ... | 287 |
| No. of attendances at Clinic | ... | 33,786 |
| No. of visits paid to School Children's homes | ... | 4,951 |
| Special Visits to Schools for Cleanliness Inspection | ... | 26 |
| No. of children examined | ... | 7,735 |

Section 10.

HEALTH EDUCATION.

During the week ended the 13th October a "Health Week" was held. It was inaugurated by the attendance at St. Peter's Church of His Worship the Mayor, who walked from the Town Hall accompanied by members of the Council, members of the Borough and County Bench of Magistrates, members of the Board of Guardians, and many of the public officials connected with these bodies. The preacher was the Venerable Archdeacon Hornby, of Lancaster.

Meetings.—On Tuesday evening, the 9th October, a "Health Week" meeting to an invited audience consisting of the Town Council, Board of Guardians, members of adjacent local authorities, medical men of the town and other persons connected with social and welfare organisations, was held in the Mechanics' Institute. The principal speaker was Sir George Newman, K.C.B., M.D., Chief Medical Officer to the Ministry of Health and the Board of Education. The subject of Sir George Newman's address was "National and Local Health Services, their Aims and Objects." The meeting was a most successful and enthusiastic one, and it is estimated that there were over 600 persons present.

On Thursday evening, October 11th, at the Mechanics' Institute, a public lecture was given, the title of which was "The Prevention of Infectious Diseases." The lecturer was Dr. R. Veitch Clark, M.B., D.P.H., the Medical Officer of Health for the City of Manchester. The lecture was a most interesting one, and was greatly appreciated by an audience of about 500 people.

In connection with the celebration of "Health Week," meetings were held at the various Infant Welfare Centres as follows:—

Tuesday, October 9th, at Ebenezer School, for the Ebenezer, Mount Olivet and Lowerhouse Centres, and the Ebenezer Mothers' Club. The meeting was presided over by Mrs. J. E. Layfield. The speaker was Mrs. Councillor M. Brown, J.P.

Competitions were promoted amongst the three Centres for essays, new handsewn garments, and re-modelled garments, the prizes for which were distributed by the Mayoress, Mrs. H. Lees. The meeting was largely attended, nearly 200 persons being present, and was very successful.

On Wednesday a meeting was held in the Rest Shelters of the Open Air School in connection with the Bank Hall Infant Welfare Centre. It is estimated there were 300 persons present. The speaker was the Right Honorable A. Henderson, P.C., M.P., and the gathering was presided over by Mrs. W.

Dickinson. Competitions were promoted amongst the mothers in respect of essays, new garments, and re-modelled garments, and the best decorated perambulator. The prizes were distributed by Mrs. Henderson.

Also on Wednesday afternoon a meeting was held at Lanebridge Infant Welfare Centre for the mothers of that Centre, and the Mothers' Club of Springfield Road, Accrington Road, and Elizabeth Street. It is estimated that there were over 80 mothers present. The meeting was presided over by the Mayoress (Mrs. Lees), and the speaker was Mrs. W. H. Watson. The Mayoress afterwards distributed the prizes to the winners of the essay competition and for the new garment and re-modelled garment.

On Thursday, the 11th October, a meeting was held at Parker Street Infant Welfare Centre, the Honorable Rachael Kay-Shuttleworth being the speaker. The meeting was presided over by His Worship the Mayor (Mr. Councillor H. Lees, J.P.), who distributed the prizes to the mothers in connection with the competition for essays, re-modelled garments, and new garments. There were about 60 mothers present.

At Parker Street Ante-Natal Clinic, on Friday afternoon, an address was given to an audience of 70, consisting of Nurses, Midwives and others interested in Ante-Natal work. The speaker was Dr. Brade Birks, Maternity and Child Welfare Officer, Salford. Dr. Munro presided, and Dr. Holt, Medical Officer of Health, presented the prizes to the winners of the essay competition.

At all the Infant Welfare gatherings there was an exhibition of sanitary appliances by the Chief Sanitary Inspector, and of children's clothing by the Health Visitors.

"Health Week" Handbook.—In accordance with the instructions of the Committee, a "Health Week" Handbook was prepared, giving information on the Health Work of the Burnley Corporation. The book contained 20 pages of matter interspersed with advertisements. 28,000 of these books were printed, and arrangements made for a book to be delivered to each house in the Borough.

Films.—Owing to the kindness of the cinema proprietors, a number of films on health matters were secured, and shewn to the elder school children as follows;—

| | | | | | |
|------------------|-----|-----|-----|-----|-------|
| Savoy Cinema | ... | ... | ... | ... | 740 |
| Grand Cinema | ... | ... | ... | ... | 391 |
| Tivoli Cinema | ... | ... | ... | ... | 746 |
| Pentridge Cinema | ... | ... | ... | ... | 957 |
| Andrew's Cinema | ... | ... | ... | ... | 821 |
| Alhambra Cinema | ... | ... | ... | ... | 571 |
| Empress Cinema | ... | ... | ... | ... | 637 |
| Total | | | | | 4,863 |

In addition the cinema proprietors very kindly undertook to show these films at their ordinary performances, and from the figures they have kindly supplied, it is estimated that nearly 30,000 people saw the films.

Institutions open to the Public during "Health Week."

Bank Hall Maternity and Children's Hospital was open to the public on Tuesday, Wednesday and Thursday afternoons. It is estimated that 800 people visited the Hospital.

The Open Air School was visited by about 600 people. The Cleansing Superintendent states that approximately 150 people visited the Destructor Works, and the Water Manager states that 20 people visited the new Hurstwood Waterworks.



APPENDICES.

| APPENDIX 1: | PAGES |
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APPENDIX 1.

TABLE 1.

| | Total. | Males. | Females. | Under 1 | 1-2 | 2-5 | 5-15 | 15-25 | 25-45 | 45-65 |
|---|--------|--------|----------|---------|------|------|------|-------|-------|-------|
| | | | | M F | M F | M F | M F | M F | M F | M F |
| Males | 659 | 659 | | 63 - | 10 - | 11 - | 23 - | 26 - | 83 - | 210 - |
| Females | 1345 | — | 686 | - 56 | - 11 | - 9 | - 15 | - 26 | - 74 | - 188 |
| Epidemic, Endemic and Infectious Diseases:— | | | | | | | | | | |
| Enteric Fever | 1 | 1 | — | — — | — — | — — | 1 — | — — | — — | — — |
| Measles | 8 | 4 | 4 | — 1 | 1 2 | 1 1 | 2 — | — — | — — | — — |
| Scarlet Fever | 1 | 1 | — | — — | — — | 1 — | — — | — — | — — | — — |
| Whooping Cough | 2 | 2 | — | 2 — | — — | — — | — — | — — | — — | — — |
| Diphtheria | 8 | 8 | — | — — | — — | 3 — | 5 — | — — | — — | — — |
| Influenza | 26 | 11 | 15 | — — | — — | — — | 1 — | — — | 3 6 | 5 4 |
| Erysipelas | 7 | 4 | 3 | — — | — — | — — | — — | — — | 2 1 | 1 2 |
| Encephalitis Lethargica | 3 | 2 | 1 | — — | — — | — — | — — | — — | 1 1 | 1 — |
| Meningococcal Meningitis | 2 | — | 2 | — — | — — | 1 — | — — | — — | 1 — | — — |
| Mycoses | 1 | 1 | — | 1 — | — — | — — | — — | — — | — — | — — |
| Tuberculosis of Respiratory System | 83 | 48 | 35 | — — | — — | — — | 1 — | 8 10 | 19 13 | 18 10 |
| Tuberculosis of Central Nervous System | 8 | 4 | 4 | 1 1 | — 1 | — — | 2 2 | — — | 1 — | — — |
| Tuberculosis of Intestine and Peritoneum | 2 | — | 2 | — — | — 1 | — — | — — | — — | — — | — 1 |
| Tuberculosis of Vetrebral Column | 3 | 2 | 1 | — — | — — | 1 — | — — | — — | — — | 1 — |
| Tuberculosis of Other Organs | 3 | 1 | 2 | — — | — 1 | — — | — — | 1 — | — 1 | — — |
| Syphilis | 2 | 1 | 1 | — — | — — | — — | — — | — — | — — | 1 1 |
| Gonococcal Infection | 1 | 1 | — | — — | — — | — — | — — | — — | 1 — | — — |
| General Diseases:— | | | | | | | | | | |
| Cancer—Buccal Cavity | 14 | 14 | — | — — | — — | — — | — — | — — | — — | 7 — |
| Pharynx, Oesophagus, and Stomach, etc. | 45 | 24 | 21 | — — | — — | — — | — — | — — | 5 — | 9 9 |
| Peritoneum, Intestines and Rectum | 30 | 13 | 17 | — — | — — | — — | — — | — — | 1 — | 5 10 |
| Female Genital Organs... .. | 14 | — | 14 | — — | — — | — — | — — | — — | 4 — | — 6 |
| Breast | 18 | — | 18 | — — | — — | — — | — — | — — | 3 — | — 9 |
| Skin | 1 | 1 | — | — — | — — | — — | — — | — — | — — | — — |
| Other or Unspecified Organs | 38 | 19 | 19 | — — | — — | 1 — | — — | — — | 1 2 | 10 8 |
| Tumours, not malignant | 4 | 3 | 1 | — — | — — | — — | — — | — — | — — | 3 — |
| Rheumatic Fever | 9 | 1 | 8 | — — | — — | — — | 1 3 | — 2 | — 1 | — 2 |
| Chronic Rheumatism | 8 | 4 | 4 | — — | — — | — — | — — | — — | 1 1 | 3 — |
| Rickets | 2 | — | 2 | — 1 | — — | — — | — — | — — | — 1 | — — |
| Diabetes | 19 | 6 | 13 | — — | — — | — — | 1 — | — — | — 1 | 2 5 |
| Anæmia Chlorosis | 10 | 4 | 6 | — — | — — | — — | 1 — | — — | — 2 | 3 3 |
| Diseases of Thyroid Gland | 3 | 1 | 2 | — — | — — | — — | — — | — — | — 2 | — — |
| Diseases of Adrenals | 4 | 1 | 3 | — — | — — | — — | — — | — — | — — | 1 2 |
| Leukaemia Lymphadenoma | 1 | 1 | — | — — | — — | — — | — — | — — | — — | — — |
| Other General Diseases | 2 | 1 | 1 | — 1 | — — | — — | — — | 1 — | — — | — — |
| Diseases of Nervous System and Sense Organs:— | | | | | | | | | | |
| Encephalitis | 1 | 1 | — | — — | — — | — — | — — | — — | — — | 1 — |
| Meningitis | 7 | 5 | 2 | 1 — | — 1 | — — | 1 — | 1 — | 2 1 | — — |
| Tabes Dorsalis | 2 | 1 | 1 | — — | — — | — — | — — | — — | — — | 1 1 |

Showing Causes of Death for the Year 1928.

| 65 and over | M | F | St. Andrew's | Daneshouse | Stoneyholme | St. Peter's | St. Paul's | Fulledge | Burnley Wd. | Healey | Trinity | Whittlefield | Gannow | Lowerhouse | *Workhouse | *Victoria Hos | *B'k Hall Hs. | *Sanatorium | |
|-------------------|----|----|--------------|------------|-------------|-------------|------------|----------|-------------|--------|---------|--------------|--------|------------|------------|---------------|---------------|-------------|---|
| | | | 185 | 97 | 80 | 86 | 107 | 129 | 119 | 112 | 109 | 58 | 146 | 117 | 246 | 90 | 37 | 17 | |
| 233 | - | - | 185 | 97 | 80 | 86 | 107 | 129 | 119 | 112 | 109 | 58 | 146 | 117 | 246 | 90 | 37 | 17 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Epidemic, Endemic and Infectious Diseases:— |
| - | - | - | - | - | - | 1 | 1 | - | - | 1 | 1 | 1 | 1 | 2 | - | - | - | 1 | Enteric Fever |
| - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | Measles |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Scarlet Fever |
| - | - | - | 1 | 1 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | Whooping Cough |
| - | - | - | 1 | 1 | 3 | - | - | - | 1 | 2 | - | - | - | - | - | - | - | 5 | Diphtheria |
| 3 | 4 | 3 | 2 | 1 | 2 | 3 | 6 | - | 5 | 1 | 1 | - | 2 | 1 | 1 | - | - | - | Influenza |
| 1 | - | 1 | 1 | - | 1 | - | - | - | - | - | - | 3 | 1 | 2 | - | - | - | 4 | Erysipelas |
| - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | 1 | 1 | - | - | - | Encephalitis Lethargica |
| - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | 1 | - | - | - | Meningococcal Meningitis |
| - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | Mycoses |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Tuberculosis of Respiratory System |
| 2 | 2 | 15 | 1 | 5 | 9 | 5 | 9 | 6 | 6 | 9 | 1 | 14 | 3 | 17 | - | - | - | 5 | Tuberculosis of Central Nervous System |
| - | - | 1 | 1 | - | 1 | - | 2 | - | - | 1 | - | 1 | 1 | - | 5 | - | - | - | Tuberculosis of Intestine and Peritoneum |
| - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | 1 | 1 | - | - | Tuberculosis of Vetrebral Column |
| - | 1 | 1 | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | Tuberculosis of Other Organs |
| - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | - | 1 | - | - | Syphilis |
| - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | Gonococcal Infection |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | General Diseases:— |
| 7 | - | 3 | - | - | 1 | 1 | 1 | 3 | - | 3 | - | 1 | 1 | 7 | 1 | - | - | - | Cancer—Buccal Cavity |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Pharynx Oesophagus |
| 10 | 12 | 14 | 3 | 4 | 2 | 2 | 1 | 3 | 2 | 2 | 3 | 5 | 4 | 7 | 6 | - | - | - | Stomach, etc. |
| 7 | 7 | 5 | 3 | 2 | 1 | 2 | 3 | 1 | 3 | 2 | 3 | 1 | 4 | 5 | 3 | - | - | - | Peritoneum, Intestines and Rectum |
| - | 4 | 1 | - | 3 | - | - | 4 | - | 1 | 2 | - | 2 | 1 | 3 | - | - | - | - | Female Genital Organs |
| - | 6 | 3 | 2 | - | - | - | - | 4 | 1 | 1 | 2 | 1 | 4 | 1 | - | - | - | - | Breast |
| 1 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | - | - | - | - | Skin |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Other or unspecified Organs |
| 7 | 9 | 8 | 2 | 4 | 2 | 1 | 2 | 6 | 3 | 3 | 2 | 3 | 2 | 6 | 1 | - | - | - | Tumours, not malignant |
| - | 1 | - | - | - | - | - | 1 | - | 1 | 1 | - | 1 | - | - | - | - | - | - | Rheumatic Fever |
| - | - | 1 | 1 | 2 | - | - | - | 1 | 1 | 1 | - | 1 | 1 | 2 | 1 | - | - | - | Chronic Rheumatism |
| - | 3 | - | 1 | - | 1 | 2 | - | - | - | - | - | - | 2 | 2 | 1 | - | - | - | Rickets |
| - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | 1 | - | - | - | - | Diabetes |
| 3 | 7 | 2 | - | - | - | - | 6 | 3 | 1 | 2 | 3 | 1 | 1 | 2 | 3 | - | - | - | Anæmia Chlorosis |
| 1 | - | 1 | 2 | 1 | - | - | 2 | 2 | 1 | - | - | - | 1 | 1 | 1 | 2 | - | - | Diseases of Thyroid Gland |
| 1 | - | 1 | 1 | 1 | - | - | 1 | - | - | - | - | - | 1 | - | - | 1 | - | - | Diseases of Adrenals |
| - | 1 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | Leukæmia Lymphadenoma |
| - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | 1 | 1 | - | Other General Diseases |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Diseases of Nervous System and Sense Organs:— |
| - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | Encephalitis |
| - | - | 1 | 1 | - | - | - | 2 | 1 | - | - | - | 1 | 1 | - | 1 | 4 | 1 | - | Meningitis |
| - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | 1 | - | - | - | Tabes Dorsalis |

Showing Causes of Death for the Year 1928.

| 65 and over | | St. Andrew's | Daneshouse | Stoneyholme | St. Peter's | St. Paul's | Fulledge | Burnley Wd. | Healey | Trinity | Whittlefield | Gannow | Lowerhouse | *Workhouse | *Victoria Hs. | *B'k Hall Hs. | *Sanatorium | |
|-------------|----|--------------|------------|-------------|-------------|------------|----------|-------------|--------|---------|--------------|--------|------------|------------|---------------|---------------|-------------|--|
| M | F | | | | | | | | | | | | | | | | | |
| - | 1 | - | - | 1 | - | 1 | 1 | - | 2 | - | - | - | - | 2 | - | - | - | Other Diseases Spinal Cord |
| 22 | 24 | 7 | 4 | 2 | 3 | 7 | 11 | 8 | 7 | 2 | 2 | 9 | 10 | 13 | 4 | - | - | Cerebral Hæmorrhage, |
| - | 2 | 1 | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | Apoplexy, etc. |
| - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | Paralysis, Unstated origin |
| 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | General Paralysis of Insane |
| - | 1 | 1 | 1 | - | - | - | - | 1 | - | 1 | - | - | - | 1 | - | - | - | Other forms of Insanity |
| - | - | 1 | 1 | - | 1 | 1 | 3 | 1 | - | - | - | 3 | - | - | - | 7 | - | Epilepsy |
| 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | Infantile Convulsions |
| - | 1 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | Hysteria and Neuritis |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Cerebral Softening |
| 1 | - | 1 | - | - | 1 | - | 2 | - | 1 | 1 | 1 | 2 | - | 1 | 1 | - | - | Other Diseases of Nervous System |
| - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | Diseases of Ear and Mastoid Sinus |
| - | - | 1 | - | 1 | - | - | - | - | - | - | 1 | - | - | - | 1 | - | - | Diseases of Circulatory System: |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Pericarditis |
| - | - | 2 | 3 | 2 | - | 1 | 1 | 2 | 1 | - | 1 | 2 | - | 4 | - | - | 1 | Acute Endocarditis and Myocarditis |
| 2 | 1 | - | 1 | - | - | - | - | 1 | 1 | 1 | - | 3 | 1 | 1 | - | - | - | Angina Pectoris |
| 64 | 98 | 45 | 29 | 15 | 20 | 25 | 25 | 27 | 22 | 19 | 4 | 26 | 25 | 77 | 5 | - | - | Other Diseases of Heart |
| 18 | 23 | 8 | 5 | 1 | 3 | 4 | 5 | 6 | 8 | 5 | 5 | 5 | 4 | 22 | - | - | - | Diseases of Arteries |
| - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | Embolism and Thrombosis |
| - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | Other Diseases of Circulatory System |
| - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | Diseases of Respiratory System: |
| 21 | 29 | 11 | 3 | 5 | 2 | 8 | 7 | 9 | 4 | 16 | 6 | 9 | 8 | - | - | 1 | - | Diseases of Larynx |
| 2 | 4 | 2 | - | 2 | 6 | 4 | 2 | 5 | 6 | - | - | 3 | 4 | 3 | 2 | - | - | Bronchitis |
| 4 | 2 | 4 | 3 | 2 | 1 | 3 | 4 | 3 | 3 | 7 | 1 | 4 | 2 | 5 | 2 | 1 | - | Broncho Pneumonia |
| 1 | - | - | 1 | 1 | - | - | 1 | 1 | - | - | - | - | - | - | 2 | - | - | Pneumonia |
| 3 | 2 | - | - | - | - | 1 | 1 | - | - | - | 1 | 1 | 2 | - | - | - | - | Pleurisy |
| - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | Congestion of Lung |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Asthma |
| - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | Diseases of Digestive System:— |
| 1 | 1 | 1 | - | - | 2 | 1 | 1 | - | - | 3 | - | - | 1 | - | 3 | - | - | Diseases of Pharynx and Tonsils |
| 1 | 4 | - | - | 3 | - | - | - | 2 | - | - | - | 5 | - | - | - | - | - | Ulcer of Stomach or Duodenum |
| - | - | - | - | - | - | 6 | 2 | 1 | - | 1 | 1 | - | 2 | 5 | - | 4 | - | Other Diseases of Stomach |
| - | 1 | 1 | 1 | - | - | - | 1 | 1 | 2 | - | - | - | 1 | 1 | 5 | - | - | Diarrhœa and Enteritis |
| 1 | 5 | 6 | 2 | - | 2 | - | - | - | - | - | - | 4 | 1 | 1 | 10 | - | - | Appendicitis |
| - | - | - | - | 1 | - | - | - | - | - | 1 | - | - | - | 1 | - | 1 | - | Hernia, Intestinal Obstruction |
| - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Other Diseases of Intestines |
| 1 | 2 | 1 | - | - | - | - | - | - | 3 | 1 | - | 1 | 1 | - | 2 | - | - | Cirrhosis of Liver |
| 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Other Diseases of Liver |
| - | - | - | - | - | - | 1 | - | - | 2 | - | - | - | - | - | 2 | - | - | Diseases of Pancreas |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Peritonitis without stated cause |
| 2 | 1 | 1 | - | - | - | 2 | - | - | 1 | 2 | 1 | 1 | 1 | 2 | 1 | - | - | Non-Venereal Diseases of Genito-Urinary System:— |
| 5 | 9 | 4 | - | 2 | - | 4 | 2 | 5 | 1 | 5 | 1 | 8 | 4 | 6 | - | - | - | Acute Nephritis |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Chronic Nephritis |
| 2 | - | - | - | - | 1 | - | 1 | 1 | - | - | - | 1 | - | - | - | - | - | Other Diseases of Kidney and Annexa |
| - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | Diseases of Bladder |
| 3 | - | 1 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | 1 | - | - | Diseases of Prostate |

TABLE 1—CONTINUED.

| | Total. | Males. | Females. | Under 1 | | 1-2 | | 2-5 | | 5-15 | | 15-25 | | 25-45 | | 45-65 | |
|--|--------|--------|----------|---------|----|-----|----|-----|---|------|----|-------|----|-------|----|-------|-----|
| | | | | M | F | M | F | M | F | M | F | M | F | M | F | M | F |
| Cysts and Other Tumours of | | | | | | | | | | | | | | | | | |
| Ovary | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Salpingitis | 2 | — | 2 | — | — | — | — | — | — | — | — | 2 | — | — | — | — | — |
| Tumours of Uterus | 2 | — | 2 | — | — | — | — | — | — | — | — | — | — | 1 | — | 1 | — |
| The Puerperal State:— | | | | | | | | | | | | | | | | | |
| Accidents of Pregnancy | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — |
| Other Accidents of Childbirth | 2 | — | 2 | — | — | — | — | — | — | — | — | — | — | 2 | — | — | — |
| Puerperal Albuminuria and | | | | | | | | | | | | | | | | | |
| Convulsions | 2 | — | 2 | — | — | — | — | — | — | — | — | — | — | 2 | — | — | — |
| Diseases of Skin and Cellular Tissue:— | | | | | | | | | | | | | | | | | |
| Gangrene | 2 | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Carbuncle | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Other Diseases of Skin and | | | | | | | | | | | | | | | | | |
| Annexa | 2 | 2 | — | 2 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Congenital Malformations | 9 | 5 | 4 | 5 | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| Diseases of Early Infancy:— | | | | | | | | | | | | | | | | | |
| Congenital Debility, etc. | 12 | 6 | 6 | 6 | 6 | — | — | — | — | — | — | — | — | — | — | — | — |
| Premature Birth, Injury at | | | | | | | | | | | | | | | | | |
| Birth, etc. | 30 | 13 | 17 | 13 | 17 | — | — | — | — | — | — | — | — | — | — | — | — |
| Other Diseases peculiar to | | | | | | | | | | | | | | | | | |
| Early Infancy | 8 | 4 | 4 | 4 | 4 | — | — | — | — | — | — | — | — | — | — | — | — |
| Old Age | 56 | 21 | 35 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| External Causes:— | | | | | | | | | | | | | | | | | |
| Suicide: Solid or Liquid Poison | 3 | 3 | — | — | — | — | — | — | — | — | — | — | — | 1 | — | 2 | — |
| Poisonous Gas | 4 | 4 | — | — | — | — | — | — | — | — | — | 1 | — | — | — | 3 | — |
| Hanging | 2 | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | — | 1 | 1 |
| Drowning | 4 | 2 | 2 | — | — | — | — | — | — | — | — | — | — | — | — | 1 | 2 |
| Cutting or piercing | | | | | | | | | | | | | | | | | |
| instruments | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — |
| Accidental Burns | 5 | 1 | 4 | — | — | — | — | 1 | 1 | — | 2 | — | — | — | — | — | — |
| Accidental Mechanical | | | | | | | | | | | | | | | | | |
| Suffocation | 2 | 1 | 1 | — | 1 | — | — | 1 | — | — | — | — | — | — | — | — | — |
| Accidental Drowning | 2 | 2 | — | — | — | — | — | — | — | 1 | — | — | — | 1 | — | — | — |
| Accidental Injury by fall | 9 | 7 | 2 | — | — | — | — | — | — | 1 | — | — | — | 1 | — | 1 | — |
| Accidental Injury by machinery | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — |
| Accidental Injury by road | | | | | | | | | | | | | | | | | |
| vehicles, railways, etc. | 10 | 9 | 1 | — | — | — | — | — | — | 1 | — | 3 | — | 2 | — | 1 | 1 |
| Wounds of war | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — |
| Ill-defined Diseases:— | | | | | | | | | | | | | | | | | |
| Sudden death | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unstated or ill-defined | 3 | 2 | 1 | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — |
| Total | 1345 | 659 | 686 | 63 | 56 | 10 | 11 | 11 | 9 | 23 | 15 | 26 | 26 | 83 | 74 | 210 | 188 |

Showing Causes of Death for the Year 1928.

| 65 and over | | St. Andrew's | Daneshouse | Stoneyholme | St. Peter's | St. Paul's | Fulledge | Burnley Wd. | Healey | Trinity | Whittlefield | Gannow | Lowerhouse | *Workhouse | *Victoria Hos | *B'k Hall Hs. | *Sanatorium | |
|-------------|-----|--------------|------------|-------------|-------------|------------|----------|-------------|--------|---------|--------------|--------|------------|------------|---------------|---------------|-------------|--|
| M | F | | | | | | | | | | | | | | | | | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | Cysts and other Tumours of Ovary |
| - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | 1 | 1 | - | - | Salpingitis |
| - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | 2 | - | - | Tumours of Uterus |
| - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | The Puerperal State:— |
| - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | Accidents of Pregnancy |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Other Accidents of Childbirth |
| - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | 1 | - | - | - | Puerperal Albuminuria and |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Convulsions |
| 1 | 1 | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | Diseases of Skin & Cellular Tissue: |
| - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | Gangrene |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Carbuncle |
| - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | Other Diseases of Skin and |
| - | - | 1 | - | 1 | - | - | 1 | - | - | 2 | - | 2 | 2 | 1 | - | - | - | Annexa |
| - | - | - | - | - | 1 | 1 | 3 | 1 | 3 | 1 | 1 | 1 | - | 1 | - | 7 | - | Congenital Malformations |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Diseases of Early Infancy:— |
| - | - | 2 | 5 | 2 | 5 | 4 | 1 | 2 | 2 | - | 2 | 5 | - | - | 1 | 11 | - | Congenital Debility, etc. |
| - | - | - | - | - | 2 | 1 | 2 | 1 | - | - | 1 | 1 | - | 3 | 1 | 2 | - | Premature Birth, Injury at Birth, etc. |
| 21 | 35 | 6 | 9 | 8 | 7 | 3 | 2 | 3 | 2 | 3 | 5 | 3 | 5 | 25 | - | - | - | Other Diseases peculiar to Early Infancy |
| - | - | 2 | - | - | - | 1 | - | - | - | - | - | - | - | 1 | - | - | - | Old Age |
| - | - | - | - | - | 1 | 1 | - | 1 | 1 | - | - | - | - | - | - | - | - | External Causes:— |
| - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | Suicide: Solid or liquid poison |
| 1 | - | 1 | - | 1 | 1 | - | - | - | - | - | 1 | - | - | 1 | - | - | - | Poisonous gas |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Hanging |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Drowning |
| - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | Cutting or piercing instruments |
| - | 1 | - | - | - | - | - | - | - | 2 | 2 | - | 1 | - | 2 | 3 | - | - | Accidental Burns |
| - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - | Accidental mechanical suffocation |
| - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | Accidental Drowning |
| 5 | 1 | 1 | - | - | 1 | 2 | - | - | - | 2 | 2 | - | 1 | 2 | 2 | - | - | Accidental Injury by fall |
| - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Accidental Injury by machinery |
| 2 | - | 2 | 1 | - | - | - | 2 | 1 | - | 1 | 1 | - | 2 | - | 7 | - | - | Accidental Injury by road vehicles, railways, etc. |
| - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | 1 | - | - | Wounds of war |
| 1 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | Ill-defined Diseases:— |
| 1 | 1 | 1 | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | Sudden death |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Unstated or ill-defined |
| 233 | 307 | 185 | 97 | 80 | 86 | 107 | 129 | 119 | 112 | 109 | 58 | 146 | 117 | 246 | 90 | 37 | 17 | Total |

TABLE 2.

INFANT MORTALITY DURING THE YEAR 1928.

APPENDIX 1.

NETT DEATHS FROM STATED CAUSES AT VARIOUS AGES UNDER ONE YEAR OF AGE.

| Causes of Death. | | Under 1 Week | 1-2 Weeks | 2-3 Weeks | 3-4 Weeks | Total under 4 Weeks | 1-3 Months | 3-6 Months | 6-9 Months | 9-12 Months | Total under 1 Year | St. Andrew's | Danesholme | St. Peter's | St. Paul's | Fulledge | Burnley Wood | Healey Wood | Trinity | Whitfield | Gannow | Lowerhouse | | |
|------------------------------|--------------------------|-----------------|-----------|-----------|-----------|------------------------|------------|------------|------------|-------------|-----------------------|--------------|------------|-------------|------------|----------|-----------------|----------------|---------|-----------|--------|------------|-----|-----|
| All Causes | Certified Uncertified | 37 | 11 | 8 | 8 | 64 | 18 | 15 | 13 | 9 | 119 | 5 | 6 | 7 | 12 | 16 | 12 | 10 | 10 | 9 | 7 | 19 | 6 | |
| Small-pox | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Chicken-pox | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Measles | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | 1 | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Scarlet Fever | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Whooping Cough | ... | ... | ... | ... | ... | ... | 1 | ... | ... | 1 | 2 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Diphtheria and Croup | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Erysipelas | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Tuberculous Meningitis | ... | ... | ... | ... | ... | ... | ... | ... | 2 | ... | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | |
| Abdominal Tuberculosis | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Other Tuberculous Diseases | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| Meningitis (not tuberculous) | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | 1 | 1 | ... | ... | ... | 1 | ... | ... | ... | ... | ... | 3 | ... | |
| Convulsions | ... | 5 | 2 | ... | ... | 7 | ... | ... | ... | ... | 9 | 1 | ... | ... | ... | 3 | 1 | ... | ... | ... | ... | ... | ... | |
| Laryngitis | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 1 | ... | ... | ... | ... | ... | |
| Bronchitis | ... | ... | 2 | ... | 2 | 4 | 5 | 1 | 2 | 1 | 13 | ... | ... | 1 | 1 | 1 | 2 | 1 | ... | 1 | 1 | 2 | 1 | 1 |
| Pneumonia (all forms) | ... | ... | ... | ... | ... | ... | 2 | 6 | 2 | 3 | 13 | ... | ... | 2 | 2 | ... | 3 | 3 | ... | 1 | 1 | 1 | 1 | 1 |
| Diarrhoea and Enteritis | ... | 1 | 1 | 2 | ... | 4 | 1 | 1 | 3 | 1 | 10 | ... | ... | ... | 5 | 1 | ... | ... | ... | 1 | 1 | ... | 2 | 2 |
| Gastritis | ... | ... | ... | ... | ... | ... | 1 | 1 | ... | ... | 2 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Syphilis | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Rickets | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Suffocation | ... | ... | ... | ... | 1 | 1 | ... | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 | ... | ... | ... |
| Other Diseases of Infancy | ... | 5 | 2 | ... | 1 | 8 | ... | ... | ... | ... | 8 | ... | ... | 2 | 1 | 2 | 1 | ... | ... | ... | 1 | 1 | ... | ... |
| Congenital Malformations | ... | 5 | ... | ... | 1 | 6 | 2 | ... | ... | 1 | 9 | 1 | ... | ... | ... | ... | ... | ... | ... | 2 | ... | ... | ... | ... |
| Premature Birth | ... | 20 | 4 | 1 | 3 | 28 | 2 | ... | ... | ... | 30 | 2 | 5 | ... | 4 | 1 | 2 | 2 | ... | ... | ... | ... | ... | ... |
| Cor. genital Debility, etc. | ... | ... | 2 | 2 | ... | 4 | 4 | 4 | ... | ... | 12 | ... | ... | 1 | 1 | 3 | 1 | 3 | ... | 1 | 1 | 1 | ... | ... |
| Other Causes | ... | 1 | ... | 1 | ... | 2 | ... | 1 | 2 | ... | 5 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Totals | ... | 37 | 11 | 8 | 8 | 64 | 18 | 15 | 13 | 9 | 119 | 5 | 6 | 7 | 12 | 16 | 12 | 10 | 10 | 9 | 7 | 19 | 6 | |

Nett Births Registered during the year—Legitimate, 1,409; Illegitimate, 92.

Nett Deaths Registered during the year—Legitimate Infants, 107; Illegitimate Infants, 12.

TABLE 3.

APPENDIX 1.

VITAL STATISTICS OF WHOLE DISTRICT DURING 1928 AND PREVIOUS YEARS.

| Year | Population estimated to Middle of each year | Births. | | | Total Deaths Registered in the District. | | Transferable Deaths. | | Nett Deaths belonging to the District. | | | |
|------------------|---|--------------------|--------|-------|--|------|---|---|--|----------------------------|-------------|------|
| | | Uncorrected Number | Nett | | Number. | Rate | Non-residents registered in the District. | Residents not registered in the District. | Under 1 Year of Age | | At all Ages | |
| | | | Number | Rate. | | | | | Numb'r | Rate per 1,000 Nett Births | Numb'r | Rate |
| | | | | | | | | | | | | |
| 1918 | 90,770 | 1449 | 1447 | 14.3 | 1750 | 18.9 | 137 | 108 | 184 | 126 | 1721 | 18.9 |
| 1919 | 102,391 | 1608 | 1600 | 15.6 | 1608 | 15.6 | 146 | 91 | 189 | 118 | 1553 | 15.2 |
| 1920 | 105,030 | 2452 | 2456 | 23.3 | 1550 | 14.7 | 130 | 67 | 317 | 129 | 1487 | 14.1 |
| 1921 | 105,300 | 2359 | 2346 | 22.3 | 1564 | 15.2 | 180 | 55 | 279 | 118 | 1439 | 13.6 |
| 1922 | 105,100 | 1978 | 1956 | 18.6 | 1767 | 16.8 | 200 | 52 | 223 | 114 | 1619 | 15.4 |
| 1923 | 104,800 | 1829 | 1824 | 17.4 | 1529 | 14.6 | 178 | 52 | 187 | 103 | 1403 | 13.4 |
| 1924 | 103,400 | 1733 | 1701 | 16.4 | 1651 | 16.0 | 171 | 48 | 215 | 126 | 1528 | 14.8 |
| 1925 | 102,300 | 1663 | 1639 | 16.0 | 1648 | 16.1 | 209 | 71 | 178 | 109 | 1510 | 14.8 |
| 1926 | 99,600 | 1607 | 1600 | 16.1 | 1449 | 14.5 | 199 | 62 | 138 | 86 | 1312 | 13.2 |
| 1927 | 99,270 | 1509 | 1507 | 15.2 | 1708 | 17.1 | 232 | 53 | 166 | 110 | 1529 | 15.4 |
| Average 10 years | 101,796 | 1818 | 1807 | 17.5 | 1622 | 15.9 | 178 | 66 | 208 | 114 | 1510 | 14.9 |
| 1928 | 100,700 | 1520 | 1501 | 15.0 | 1513 | 15.1 | 223 | 55 | 119 | 79 | 1345 | 13.3 |

TABLE 4.—Distribution of the Notifiable Infectious Diseases during 1928.

| NOTIFIABLE DISEASES. | TOTAL CASES NOTIFIED IN EACH WARD. | | | | | | | | | | | | | | | | |
|---|------------------------------------|------------|-------------|-------------|------------|----------|--------------|--------|---------|--------------|--------|------------|-----------|-------------------|-----------|------------|-------|
| | St. Andrew's | Daneshouse | Stoneyholme | St. Peter's | St. Paul's | Fulledge | Burnley Wood | Healey | Trinity | Whittlefield | Gannow | Lowerhouse | Workhouse | Victoria Hospital | Bank Hall | Sanatorium | TOTAL |
| Small Pox ... | 12 | 9 | 6 | 16 | 33 | 17 | 18 | 14 | 16 | 7 | 19 | 12 | 1 | 1 | — | — | 181 |
| Cholera ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Diphtheria (including Membranous Croup) ... | 21 | 10 | 15 | 9 | 5 | 3 | 3 | 7 | 3 | 7 | 2 | 5 | — | 5 | — | — | 95 |
| Erysipelas ... | 14 | 11 | 6 | — | 5 | 8 | 10 | 5 | 2 | 3 | 9 | 5 | 6 | 3 | — | — | 87 |
| Scarlet Fever ... | 17 | 7 | 1 | 7 | 5 | 25 | 23 | 9 | 7 | 13 | 17 | 10 | 1 | 2 | — | — | 144 |
| Enteric Fever ... | 2 | — | — | — | 2 | — | — | — | — | — | — | 1 | — | — | — | — | 5 |
| Typhus Fever ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Relapsing Fever ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Continued Fever ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Puerperal Fever ... | — | — | — | — | — | 1 | — | — | — | 1 | — | — | 2 | — | — | — | 4 |
| Puerperal Pyrexia ... | 1 | — | — | 3 | 3 | 2 | 4 | 2 | 1 | — | 2 | 2 | — | 1 | 7 | — | 28 |
| Cerebro-Spinal Meningitis ... | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Ophthalmia Neonatorum ... | — | — | — | — | 1 | 2 | — | 1 | — | 1 | 1 | — | — | — | — | — | 6 |
| Poliomyelitis ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Primary Pneumonia ... | 32 | 21 | 7 | 11 | 10 | 22 | 10 | 17 | 19 | 4 | 19 | 10 | 13 | 1 | 1 | — | 197 |
| Influenzal Pneumonia ... | 1 | 3 | 3 | 4 | 1 | — | 1 | 1 | — | 1 | 1 | 1 | — | — | — | — | 17 |
| Malaria ... | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | 1 |
| Dysentery ... | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | 1 |
| Encephalitis Lethargica ... | — | — | — | — | — | — | — | — | — | — | 1 | 1 | 2 | — | — | — | 4 |
| Polio. Encephalitis ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Measles and German Measles ... | 93 | 63 | 103 | 83 | 81 | 149 | 77 | 126 | 135 | 100 | 185 | 198 | 9 | 3 | — | — | 1405 |
| Tuberculosis of Lungs† | 9 | 4 | 5 | 7 | 7 | 22 | 7 | 9 | 10 | 4 | 10 | 15 | 22 | — | — | — | 131 |
| Other Forms of Tuberculosis† | 8 | 1 | 2 | 1 | 5 | 3 | 4 | — | 6 | 2 | 7 | 3 | 12 | 5 | 1 | — | 60 |
| TOTALS ... | 210 | 129 | 148 | 141 | 159 | 254 | 157 | 191 | 200 | 143 | 274 | 263 | 68 | 21 | 9 | — | 2367 |

†Primary Notifications.

TABLE 5.

Seasonal prevalence of the Infectious Diseases notified in 1928.

| DISEASE. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Total |
|-------------------------------------|------|------|------|------|-----|------|------|------|-------|------|------|------|-------|
| Diphtheria and Membranous Croup ... | 17 | 10 | 9 | 5 | 4 | 11 | 2 | 8 | 6 | 9 | 5 | 9 | 95 |
| Erysipelas ... | 5 | 10 | 10 | 10 | 4 | 4 | 2 | 5 | 6 | 10 | 12 | 9 | 87 |
| Scarlet Fever ... | 5 | 8 | 6 | 6 | 4 | 9 | 5 | 4 | 18 | 26 | 27 | 26 | 144 |
| Enteric Fever ... | — | — | 1 | — | — | — | — | 2 | 1 | — | 1 | — | 5 |
| Puerperal Fever .. | — | — | — | — | 1 | — | — | 1 | — | 2 | — | — | 4 |
| Puerperal Pyrexia | 2 | 2 | 2 | 2 | 1 | 3 | 3 | 3 | 2 | 4 | 2 | 2 | 28 |
| Ophthalmia Neonatorum ... | 2 | — | 1 | — | 1 | — | — | — | 1 | — | — | 1 | 6 |
| Primary Pneumonia ... | 11 | 12 | 27 | 20 | 27 | 20 | 12 | 6 | 16 | 17 | 10 | 19 | 197 |
| Influenzal Pneumonia ... | 3 | — | 1 | 2 | 4 | 2 | — | — | 1 | 1 | 1 | 2 | 17 |
| Poliomyelitis ... | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Encephalitis Lethargica ... | — | 1 | 1 | 1 | — | — | — | — | 1 | — | — | — | 4 |
| Cerebro-Spinal Meningitis ... | — | 1 | — | — | — | — | — | — | — | — | — | — | 1 |
| Measles and German Measles | 122 | 122 | 141 | 93 | 120 | 249 | 134 | 36 | 35 | 22 | 66 | 265 | 1405 |
| Tuberculosis of Lungs ... | 7 | 20 | 12 | 6 | 8 | 7 | 15 | 9 | 9 | 15 | 10 | 13 | 131 |
| Other forms of Tuberculosis ... | 2 | 8 | 11 | 3 | 2 | 9 | 4 | 2 | 7 | 6 | 4 | 2 | 60 |
| Malaria ... | — | — | — | — | — | — | — | 1 | — | — | — | — | 1 |
| Dysentery ... | — | 1 | — | — | — | — | — | — | — | — | — | — | 1 |
| Smallpox ... | 23 | 26 | 29 | 48 | 24 | 23 | 1 | 2 | 2 | 3 | — | — | 181 |
| TOTALS ... | 199 | 221 | 251 | 196 | 200 | 337 | 178 | 79 | 105 | 115 | 138 | 348 | 2367 |

TABLE 6—NOTIFIABLE INFECTIOUS DISEASES DURING 1928.

APPENDIX I.

| NOTIFIABLE DISEASES. | Notifi- cations and Deaths. | At all Ages. | CASES NOTIFIED AND DEATHS. | | | | | | | | | | | | Total cases removed to Sanatorium. |
|---|--------------------------------------|-----------------|----------------------------|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------------------|--|
| | | | At Ages—Years. | | | | | | | | | | | | |
| | | | Under 1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-10 | 10-15 | 15-20 | 20-35 | 35-45 | 45-65 | 65 and over | |
| Small Pox ... | Notified Deaths | 181 | 1 | 2 | 2 | 1 | 2 | 32 | 41 | 36 | 29 | 8 | 22 | 5 | 181 |
| Cholera ... | Notified Deaths | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Diphtheria (including Membranous Group) | Notified Deaths | 95 | — | 5 | 8 | 7 | 6 | 38 | 14 | 1 | 15 | 1 | — | — | 56 |
| Erysipelas ... | Notified Deaths | 8 | — | — | 2 | 1 | — | 5 | — | — | — | — | — | — | |
| | Notified Deaths | 87 | 1 | — | 1 | — | — | 2 | — | 1 | 20 | 16 | 35 | 11 | 64 |
| Scarlet Fever ... | Notified Deaths | 7 | — | — | — | — | — | — | — | — | 2 | 1 | 3 | 1 |  | 5 |
| Enteric Fever ... | Notified Deaths | 144 | — | 3 | 4 | 8 | 10 | 72 | 28 | 11 | 8 | — | — | — | — |
| | Notified Deaths | 1 | — | — | — | — | 1 | — | — | — | — | — | — | — | |
| Typhus Fever ... | Notified Deaths | 5 | — | — | — | — | — | — | 1 | 1 | 1 | 1 | 1 | — | — |
| | Notified Deaths | 1 | — | — | — | — | — | — | 1 | — | — | — | — | — | |
| Relapsing Fever ... | Notified Deaths | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | Notified Deaths | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Continued Fever ... | Notified Deaths | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | Notified Deaths | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Puerperal Fever ... | Notified Deaths | 4 | — | — | — | — | — | — | — | 1 | 3 | — | — | — | 1 |
| | Notified Deaths | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Puerperal Pyrexia ... | Notified Deaths | 28 | — | — | — | — | — | — | — | 2 | 22 | 4 | — | — | — |
| | Notified Deaths | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Cerebro-Spinal Meningitis | Notified Deaths | 1 | — | — | — | 1 | — | — | — | — | — | — | — | — | — |
| | Notified Deaths | — | — | — | — | 1 | — | — | — | — | — | — | — | — | |

TABLE 7.

Number of Notifications of Infectious Diseases, 1910-1928.

| DISEASE. | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Small Pox ... | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | 41 | 181 |
| Cholera ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Diphtheria, including Membranous Croup ... | 91 | 139 | 119 | 175 | 129 | 102 | 98 | 60 | 54 | 73 | 96 | 206 | 118 | 105 | 103 | 163 | 142 | 154 | 95 |
| Erysipelas ... | 108 | 108 | 102 | 173 | 117 | 126 | 86 | 52 | 49 | 79 | 77 | 68 | 57 | 68 | 70 | 103 | 50 | 51 | 87 |
| Scarlet Fever ... | 418 | 262 | 118 | 204 | 309 | 412 | 179 | 46 | 32 | 127 | 176 | 163 | 478 | 597 | 76 | 209 | 143 | 101 | 144 |
| Enteric Fever ... | 32 | 29 | 32 | 18 | 22 | 21 | 31 | 5 | 6 | 7 | 9 | 16 | 5 | 14 | 23 | 5 | 21 | 1 | 5 |
| Typhus Fever ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Relapsing Fever ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Continued Fever ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Puerperal Fever ... | 15 | 9 | 8 | 6 | 9 | 7 | 2 | — | 3 | 10 | 3 | 9 | 3 | 2 | 4 | 4 | 2 | 6 | — |
| Puerperal Pyrexia ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4 | 12 | 28 |
| C'bro Spinal Meningitis ... | — | — | — | — | — | — | — | — | — | 1 | — | 4 | — | — | — | — | — | 2 | 1 |
| Acute Poliomyelitis ... | — | — | — | — | 3 | — | 2 | — | — | — | 1 | 2 | 1 | — | 3 | 3 | — | 2 | — |
| Ophthalmia Neonatorum ... | — | — | — | — | 21 | 16 | 20 | 13 | 16 | 22 | 18 | 29 | 15 | 13 | 21 | 11 | 18 | 11 | 6 |
| Acute Primary Pneumonia ... | — | — | — | — | — | — | — | — | — | 82 | 91 | 78 | 85 | 94 | 102 | 150 | 160 | 172 | 197 |
| Acute Influenzal Pneumonia ... | — | — | — | — | — | — | — | — | — | 72 | 8 | 8 | 19 | 2 | 36 | 30 | 13 | 38 | 17 |
| Malaria ... | — | — | — | — | — | — | — | — | — | 87 | 42 | 6 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| Dysentery ... | — | — | — | — | — | — | — | — | — | 4 | 2 | — | — | — | — | — | 1 | 1 | 1 |
| Encephalitis Lethargica ... | — | — | — | — | — | — | — | — | — | 1 | 4 | 1 | 3 | 7 | 6 | 3 | 3 | 13 | 4 |
| Polio-Encephalitis ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | 1 | — | — | — |
| Measles and German Measles ... | — | — | — | — | — | — | 1534 | 1519 | 1317 | 1749 | 290 | 147 | 3423 | 193 | 614 | 2323 | 2220 | 1192 | 1405 |
| †Tuberculosis of Lungs ... | 199 | 194 | 163 | 194 | 149 | 149 | 135 | 145 | 124 | 126 | 110 | 122 | 155 | 172 | 143 | 126 | 120 | 100 | 131 |
| †Other Forms of Tuber- culosis ... | — | — | — | 107 | 62 | 74 | 100 | 74 | 56 | 59 | 56 | 63 | 78 | 85 | 92 | 85 | 68 | 72 | 60 |
| TOTAL ... | 864 | 741 | 542 | 877 | 821 | 907 | 2187 | 1914 | 1657 | 2499 | 983 | 922 | 4441 | 1354 | 1295 | 3217 | 2968 | 1970 | 2367 |

† Primary notifications.

The compulsory notification of Infectious Disease was commenced on 24th June, 1884, under powers obtained by the Burnley Borough Improvement Act, 1883. The diseases to which this Act applied were Scarletina, Small Pox, Cholera, Typhus and Typhoid Fevers and Diphtheria.

The following diseases became universally notifiable on the 30th August, 1889, by the Infectious Diseases (Notification) Act of that year:—Small Pox, Cholera, Diphtheria, Membranous Croup, Erysipelas, Scarlet Fever and the Fevers—Typhus, Typhoid, Enteric, Relapsing, Continued and Puerperal.

Notification of Tuberculosis of the Lung commenced on 1st February, 1909, in accordance with powers obtained in the Burnley Corporation Act, 1908. This disease became generally notifiable on 1st January, 1912, by the Public Health (T.B.) Regulations, 1911.

Notifications of all forms of Tuberculosis commenced on the 1st February, 1913, by the Public Health (Tuberculosis) Regulations, 1912.

Cerebro-Spinal Meningitis and Acute Poliomyelitis became compulsory notifiable on 1st September, 1912.

Ophthalmia Neonatorum became compulsory notifiable on 1st April, 1914.

Measles became compulsory notifiable on 1st January, 1916, but the Order was rescinded on the 31st December, 1919. Application was made by the Local Authority to the Ministry of Health for all cases of Measles to be notifiable. This was approved, and the Borough of Burnley Etc. (Measles and German Measles) Regulations, 1920, came into force on the 1st March of that year.

Notification of Encephalitis Lethargica and Polio-Encephalitis commenced on the 1st January, 1919.

The compulsory notification of Malaria, Dysentery, Acute Primary Pneumonia and Acute Influenzal Pneumonia came into operation on the 1st March, 1919.

The notification of Puerperal Pyrexia commenced on the 1st October, 1926.

TABLE 8.—Birth Rate, Death Rate, Infantile Death Rate, and Death Rate from various Infectious Diseases of some of the large towns as shewn by the Returns of the Registrar General.

| TOWN. | Popu- lation. 1927 | Birth Rate. | Death Rate. | Infantile Death Rate. | Death Rate per 1,000 of Population. | | | |
|----------------------|--------------------------|----------------|----------------|-----------------------------|--|-------------|-------------------|------------------|
| | | | | | Enteric Fever. | Measles. | Scarlet Fever. | Diph- theria. |
| Birmingham ... | 952,800 | 18.1 | 10.9 | 65 | 0.00 | 0.04 | 0.01 | 0.08 |
| Liverpool ... | 872,900 | 21.9 | 12.8 | 92 | 0.00 | 0.19 | 0.02 | 0.11 |
| Manchester ... | 751,900 | 17.2 | 12.9 | 90 | 0.00 | 0.16 | 0.02 | 0.12 |
| Sheffield ... | 524,900 | 16.1 | 11.3 | 73 | 0.02 | 0.23 | 0.05 | 0.06 |
| Leeds ... | 482,600 | 15.9 | 12.4 | 77 | 0.00 | 0.04 | 0.03 | 0.04 |
| Bristol ... | 385,700 | 16.5 | 11.5 | 61 | 0.20 | 0.26 | 0.01 | 0.04 |
| Hull .. | 296,600 | 20.6 | 12.6 | 80 | 0.01 | 0.05 | 0.04 | 0.07 |
| Bradford ... | 293,200 | 15.1 | 12.9 | 68 | — | 0.02 | 0.04 | 0.07 |
| Newcastle-on-Tyne | 288,500 | 18.8 | 12.4 | 82 | 0.02 | 0.19 | 0.01 | 0.02 |
| Stoke-on-Trent ... | 276,900 | 19.9 | 11.6 | 86 | 0.01 | 0.02 | 0.03 | 0.02 |
| Nottingham ... | 265,700 | 17.7 | 12.5 | 85 | 0.00 | 0.02 | 0.03 | 0.16 |
| Salford ... | 247,600 | 16.8 | 12.3 | 96 | 0.02 | 0.17 | 0.00 | 0.03 |
| Leicester ... | 245,000 | 16.3 | 10.9 | 70 | — | 0.00 | 0.02 | 0.08 |
| Cardiff ... | 225,600 | 18.1 | 11.6 | 77 | 0.01 | 0.09 | 0.02 | 0.07 |
| Plymouth ... | 187,600 | 17.2 | 13.2 | 70 | 0.00 | 0.41 | 0.01 | 0.18 |
| Bolton ... | 178,300 | 14.7 | 12.7 | 64 | 0.01 | 0.08 | 0.01 | 0.10 |
| Sunderland .. | 187,800 | 23.2 | 13.2 | 87 | 0.03 | 0.10 | — | 0.01 |
| Swansea ... | 162,700 | 18.4 | 11.2 | 61 | — | 0.02 | 0.01 | 0.09 |
| Birkenhead... | 162,000 | 18.1 | 11.3 | 78 | 0.01 | 0.10 | 0.01 | 0.04 |
| Oldham ... | 141,400 | 14.5 | 14.0 | 83 | — | 0.06 | 0.01 | 0.25 |
| Middlesbrough ... | 133,600 | 24.1 | 12.8 | 88 | 0.02 | 0.24 | 0.01 | 0.03 |
| Derby ... | 137,700 | 17.6 | 10.8 | 64 | 0.01 | 0.22 | 0.01 | 0.12 |
| Coventry ... | 152,400 | 16.0 | 10.4 | 65 | 0.01 | 0.04 | 0.01 | 0.27 |
| Blackburn ... | 124,500 | 13.9 | 12.0 | 78 | — | 0.01 | — | 0.11 |
| South Shields ... | 123,400 | 20.0 | 13.2 | 91 | 0.01 | 0.08 | — | 0.04 |
| Stockport ... | 125,200 | 14.6 | 12.4 | 76 | 0.01 | 0.10 | 0.02 | 0.02 |
| Preston ... | 127,100 | 15.1 | 12.4 | 86 | 0.01 | 0.01 | 0.02 | 0.07 |
| Huddersfield ... | 112,100 | 13.8 | 12.9 | 65 | 0.02 | 0.04 | 0.04 | 0.06 |
| St. Helens ... | 113,100 | 21.3 | 11.4 | 97 | — | 0.14 | 0.04 | 0.08 |
| Wolverhampton ... | 135,200 | 19.6 | 10.3 | 61 | — | 0.10 | — | 0.05 |
| Walsall ... | 102,000 | 19.9 | 11.2 | 90 | 0.02 | 0.16 | — | 0.34 |
| BURNLEY ... | 99,270 | 15.1 | 13.1 | 79 | 0.01 | 0.08 | 0.01 | 0.07 |
| Halifax ... | 96,320 | 13.2 | 13.0 | 65 | 0.02 | — | 0.02 | 0.17 |
| Northampton ... | 93,260 | 14.0 | 11.3 | 52 | — | 0.05 | — | 0.06 |
| Rochdale ... | 91,060 | 13.7 | 14.0 | 78 | 0.01 | 0.02 | 0.03 | 0.09 |
| Wallasey ... | 99,730 | 14.4 | 10.1 | 36 | 0.03 | 0.03 | 0.01 | 0.09 |
| Wigan ... | 88,690 | 18.6 | 12.1 | 92 | 0.02 | — | — | 0.01 |
| Bootle ... | 84,970 | 20.5 | 10.4 | 87 | — | 0.06 | 0.01 | 0.08 |
| Blackpool ... | 93,160 | 11.9 | 13.1 | 72 | — | 0.06 | 0.01 | 0.04 |
| Warrington ... | 78,680 | 19.7 | 11.1 | 64 | 0.01 | 0.37 | 0.01 | 0.06 |
| Southport ... | 78,670 | 11.6 | 12.7 | 75 | — | 0.03 | — | 0.01 |
| Barrow-in-Furness .. | 69,750 | 16.3 | 10.8 | 61 | — | 0.04 | — | 0.03 |
| Bury ... | 56,770 | 13.1 | 13.2 | 89 | — | 0.05 | 0.04 | 0.12 |

APPENDIX 1.

TABLE 9.—Vital Statistics of the Twelve Wards.

| WARDS | Estimated Population | Acreage | No. of Births Registered in the District (uncor'ct'd number) | Birth Rate | No. of Deaths of Residents | Death Rate | No. of cases of notifiable Infectious Disease (excluding Tuberc'losis) | RATE PER 1,000 OF POPULATION | | | | Infantile Diarrhoea Death Rate per 1,000 Births | Infantile Mortality per 1,000 Births |
|-----------------------------------|-------------------------|---------|--|---------------|-------------------------------------|---------------|--|-----------------------------------|---|---|--|---|---|
| | | | | | | | | Cases of Infectious Disease | Pulmonary Tuberc'losis Death Rate | Other Forms of Tuberc'losis Death Rate | Respiratory Diseases (excluding T.B.) Death Rate | | |
| St. Andrew's ... | 15,575 | 823 | 135 | 8.7 | 185 | 11.9 | 193 | 12.4 | 0.96 | 0.13 | 1.01 | — | 37 |
| Daneshouse ... | 8,229 | 140 | 118 | 14.3 | 97 | 11.8 | 124 | 15.1 | 0.12 | 0.12 | 0.85 | — | 51 |
| Stoneyholme ... | 5,733 | 540 | 84 | 14.6 | 80 | 13.9 | 141 | 24.6 | 0.87 | — | 2.09 | — | 83 |
| St. Peter's ... | 5,714 | 114 | 106 | 18.5 | 86 | 15.1 | 133 | 23.3 | 1.57 | 0.35 | 1.58 | — | 113 |
| St. Paul's ... | 6,321 | 152 | 125 | 19.8 | 107 | 16.9 | 147 | 23.3 | 0.79 | — | 2.69 | 40 | 128 |
| Fulledge ... | 10,756 | 735 | 160 | 14.9 | 129 | 12.0 | 229 | 21.3 | 0.84 | 0.28 | 1.49 | 6.2 | 75 |
| Burnley Wood ... | 8,695 | 366 | 125 | 14.4 | 119 | 13.7 | 145 | 16.7 | 0.69 | — | 2.07 | — | 80 |
| Healey ... | 7,565 | 468 | 118 | 15.6 | 112 | 14.8 | 182 | 24.1 | 0.79 | 0.26 | 1.72 | — | 85 |
| Trinity ... | 7,617 | 93 | 128 | 16.8 | 109 | 14.3 | 184 | 24.2 | 1.18 | 0.13 | 3.02 | 7.8 | 70 |
| Whittlefield ... | 5,196 | 239 | 73 | 14.0 | 58 | 11.2 | 137 | 26.6 | 0.19 | — | 1.54 | 13.7 | 96 |
| Gannow ... | 9,688 | 497.7 | 162 | 16.7 | 146 | 15.1 | 257 | 26.5 | 1.44 | 0.21 | 1.75 | — | 117 |
| Lowerhouse ... | 9,611 | 527 | 139 | 14.5 | 117 | 12.2 | 245 | 25.5 | 0.31 | 0.31 | 1.66 | 14.4 | 43 |
| Workhouse ... | — | — | 20 | — | — | — | 34 | — | — | — | — | — | — |
| Victoria Hospital | — | — | 3 | — | — | — | 16 | — | — | — | — | — | — |
| Bank Hall Hosp. | — | — | 24 | — | — | — | 8 | — | — | — | — | — | — |
| TOTALS for the Town as a whole | 100,700 | 4,694.7 | 1,520 | 15.0 | 1,345 | 13.46 | 2,175 | 21.6 | 0.82 | 0.16 | 1.72 | 6.7 | 79.3 |

TABLE 10.—Shewing Birth Rates, Mortality Rates from all causes, from Tuberculosis of the Lungs, Respiratory Diseases, and Malignant Diseases, together with Infantile Mortality and Infantile Diarrhoea Death Rates per 1,000 Births.

APPENDIX I.

| YEAR. | Popu- lation. | Birth Rate. | Death Rate. | Mortality Rates per 1,000 Population from | | | Infantile Diarrhoea Death rate per 1,000 Births. | Infantile Mortality per 1,000 Births. | Infantile Mortality per 1,000 Births, England & Wales. |
|---------------------|------------------|----------------|----------------|---|---|------------------------|--|--|---|
| | | | | Pul- monary Tuber- culosis. | Respiratory Diseases (excluding Pulmonary Tuberculosis) | Malignant Diseases. | | | |
| 1882-1886 ... | — | 38.9 | 23.2 | 2.31 | 5.15 | 0.24 | 34.9 | 212 | 142 |
| 1887-1891 ... | — | 35.9 | 22.2 | 1.64 | 6.21 | 0.30 | 27.9 | 217 | 145 |
| 1892... .. | 88,019 | 35.9 | 20.9 | 1.96 | 5.79 | 0.36 | 15.8 | 189 | 148 |
| 1893... .. | 89,022 | 35.4 | 22.8 | 2.00 | 5.12 | 0.52 | 46.1 | 227 | 159 |
| 1894... .. | 90,024 | 34.5 | 19.9 | 2.25 | 4.04 | 0.36 | 16.7 | 174 | 137 |
| 1895... .. | 91,027 | 35.0 | 25.6 | 2.08 | 7.02 | 0.44 | 54.9 | 249 | 161 |
| 1896... .. | 92,030 | 34.6 | 20.2 | 2.00 | 4.38 | 0.50 | 16.2 | 173 | 148 |
| Average 5 years ... | | 35.1 | 21.9 | 2.06 | 5.27 | 0.44 | 29.9 | 202 | 151 |
| 1897... .. | 93,033 | 33.8 | 22.1 | 2.21 | 3.60 | 0.59 | 26.9 | 223 | 156 |
| 1898... .. | 94,036 | 31.9 | 19.0 | 1.82 | 3.58 | 0.55 | 44.6 | 194 | 160 |
| 1899... .. | 95,039 | 29.9 | 23.6 | 1.78 | 4.22 | 0.57 | 82.8 | 273 | 163 |
| 1900... .. | 96,041 | 30.5 | 19.7 | 1.67 | 4.23 | 0.54 | 51.1 | 208 | 154 |
| 1901... .. | *97,043 | 27.5 | 18.9 | 1.65 | 3.68 | 0.69 | 58.6 | 227 | 151 |
| Average 5 years ... | | 30.7 | 20.7 | 1.83 | 3.86 | 0.59 | 52.8 | 225 | 157 |
| 1902... .. | 98,158 | 29.6 | 19.3 | 1.44 | 3.96 | 0.85 | 23.4 | 175 | 133 |
| 1903... .. | 99,061 | 27.3 | 18.7 | 1.51 | 3.88 | 0.55 | 42.4 | 216 | 132 |
| 1904... .. | 99,971 | 26.8 | 19.4 | 1.49 | 3.62 | 0.64 | 70.8 | 232 | 145 |
| 1905... .. | 100,889 | 26.3 | 16.6 | 1.46 | 3.13 | 0.73 | 46.1 | 174 | 128 |
| 1906... .. | 101,816 | 28.0 | 19.9 | 1.38 | 4.04 | 0.72 | 73.3 | 212 | 132 |
| Average 5 years ... | | 27.6 | 18.8 | 1.46 | 3.73 | 0.70 | 51.2 | 202 | 134 |
| 1907... .. | 102,751 | 29.0 | 17.7 | 1.38 | 4.14 | 0.67 | 24.1 | 156 | 118 |
| 1908... .. | 103,696 | 28.6 | 18.2 | 1.23 | 3.41 | 0.80 | 52.2 | 201 | 120 |
| 1909... .. | 104,648 | 25.4 | 16.3 | 1.15 | 3.90 | 0.56 | 21.5 | 157 | 109 |
| 1910... .. | 105,610 | 25.4 | 16.5 | 1.03 | 3.18 | 0.84 | 37.0 | 168 | 105 |
| 1911... .. | *106,322 | 23.2 | 18.1 | 1.04 | 3.16 | 0.77 | 81.3 | 210 | 130 |
| Average 5 years ... | | 26.3 | 17.4 | 1.17 | 3.56 | 0.73 | 43.2 | 178 | 116 |
| 1912... .. | 108,012 | 23.0 | 15.0 | 0.85 | 3.36 | 0.82 | 14.5 | 145 | 95 |
| 1913... .. | 109,021 | 22.8 | 16.8 | 0.96 | 3.31 | 0.90 | 49.8 | 174 | 108 |
| 1914... .. | 110,040 | 23.5 | 16.4 | 1.02 | 3.77 | 0.85 | 27.0 | 158 | 105 |
| 1915... .. | 103,098 | 19.5 | 16.9 | 0.88 | 4.08 | 0.76 | 38.8 | 166 | 110 |
| 1916... .. | 100,183 | 16.5 | 17.3 | 0.94 | 3.76 | 1.15 | 19.4 | 151 | 91 |
| Average 5 years ... | | 21.1 | 16.5 | 0.93 | 3.66 | 0.90 | 29.9 | 159 | 102 |
| 1917... .. | 93,779 | 14.4 | 16.0 | 1.12 | 3.44 | 0.94 | 12.6 | 143 | 96 |
| 1918... .. | 90,770 | 14.3 | 18.9 | 0.85 | 4.02 | 1.22 | 5.5 | 126 | 97 |
| 1919... .. | 102,391 | 15.6 | 15.2 | 0.91 | 3.67 | 1.03 | 8.7 | 118 | 89 |
| 1920... .. | 105,030 | 23.3 | 14.1 | 0.72 | 2.90 | 1.22 | 13.8 | 129 | 80 |
| 1921... .. | *105,300 | 22.3 | 13.6 | 0.64 | 2.73 | 1.41 | 17.9 | 118 | 83 |
| Average 5 years ... | | 18.0 | 15.6 | 0.85 | 3.35 | 1.16 | 11.7 | 127 | 89 |
| 1922... .. | 105,100 | 18.6 | 15.4 | 0.87 | 3.28 | 1.03 | 6.1 | 114 | 77 |
| 1923... .. | 104,800 | 17.4 | 13.4 | 0.90 | 2.69 | 1.38 | 4.9 | 103 | 69 |
| 1924... .. | 103,400 | 16.4 | 14.8 | 0.70 | 3.59 | 1.14 | 8.2 | 126 | 75 |
| 1925... .. | 102,300 | 16.0 | 14.8 | 0.81 | 3.17 | 1.23 | 3.0 | 109 | 75 |
| 1926... .. | 99,600 | 16.1 | 13.2 | 0.69 | 2.25 | 1.32 | 8.1 | 86 | 70 |
| Average 5 years ... | | 16.9 | 14.3 | 0.79 | 3.00 | 1.22 | 6.1 | 108 | 73 |
| 1927... .. | 99,270 | 15.2 | 15.4 | 0.73 | 2.21 | 1.55 | 8.6 | 110 | 69 |
| 1928... .. | 100,700 | 15.0 | 13.3 | 0.86 | 1.72 | 1.59 | 6.7 | 79 | 65 |

* The Population for the census years 1891, 1901, 1911 and 1921 are taken from the census Returns ; the populations for the other years are estimations of the Registrar General.

| KIND OF HOUSE INSURANCE | | | | |
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| Through. | Back to | Single. | Room Dwellings | Basements | Total. |
|----------|---------|---------|----------------|-----------|--------|
| 1,232 | 128 | 20 | 60 | — | 1,440 |

1,243 open on to front streets.

121 " " cul-de-sac streets.

| | | | |
|----|---|---|------------|
| 26 | " | " | courts. |
| 45 | | | back yards |

| | | | |
|----|---|---|-------------|
| 45 | " | " | back yards. |
| 5 | " | " | landing. |

[illegible][illegible]

SIZE OF ROOMS.—HEIGHTS.

APPENDIX 2

| Kind of House. | Kind of Room. | Under 8 feet. | Between 8 & 9 feet | Between 9 & 10 feet | 10 feet & above. | Total. |
|------------------------------|-------------------------------------|------------------|-----------------------|------------------------|---------------------|--------|
| Through Houses | Living Rooms with Kitchen Ranges | — | 316 | 1537 | 6 | 1859 |
| | Rooms without Kitchen Ranges | — | 94 | 91 | — | 185 |
| | Parlours | — | 49 | 329 | 2 | 380 |
| | Bedrooms ... | 43 | 577 | 1882 | 12 | 2514 |
| Back-to-Back Houses. | Living Rooms ... | 7 | 100 | 19 | 2 | 128 |
| | Bedrooms ... | 58 | 87 | 31 | 3 | 179 |
| Single Houses | Living Rooms with Kitchen Ranges | 1 | 19 | — | — | 20 |
| | Without Kitchen Ranges | 5 | — | — | — | 5 |
| | Bedrooms ... | 25 | 3 | 2 | — | 30 |
| Single Room Dwellings ... | — | 24 | 32 | 4 | — | 60 |
| Basements ... | — | — | — | — | — | — |

SIZE OF ROOMS.—FLOOR SPACES.

| Kind of House. | Kind of Room. | Under 125 sq. feet. | Between 125&150 sq. feet. | Between 150&200 sq. feet. | Between 200&250 sq. feet. | 250 sq. feet & above | Total. |
|------------------------------|-------------------------------------|---------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------|--------|
| Through Houses | Living Rooms with Kitchen Ranges | 597 | 429 | 815 | 18 | — | 1859 |
| | Rooms without Kitchen Ranges | 183 | 2 | — | — | — | 185 |
| | Parlours | 240 | 108 | 31 | 1 | — | 380 |
| | Bedrooms ... | 916 | 537 | 996 | 59 | 6 | 2514 |
| Back-to-Back Houses ... | Living Rooms ... | 5 | 18 | 88 | 15 | 2 | 128 |
| | Bedrooms ... | 35 | 29 | 42 | 64 | 9 | 179 |
| Single Houses | Living Rooms with Kitchen Ranges | — | 1 | 14 | 5 | — | 20 |
| | Rooms without Kitchen Ranges | 5 | — | — | — | — | 5 |
| | Bedrooms ... | 4 | 8 | 6 | 10 | 2 | 30 |
| Single Room Dwellings ... | — | 1 | 2 | 52 | 5 | — | 60 |
| Basements ... | — | — | — | — | — | — | — |

SIZE OF ROOMS.—CUBIC SPACE.

| Kind of House. | Kind of Room. | Under 1,000 cubic feet. | Between 1,000 and 1,500 cubic feet. | Between 1,500 and 2,000 cubic feet. | 2,000 cubic feet and above | Total. |
|---------------------------|----------------------------------|-------------------------|-------------------------------------|-------------------------------------|----------------------------|--------|
| Through Houses | Living Rooms with Kitchen Ranges | 478 | 1036 | 339 | 6 | 1859 |
| | Rooms without Kitchen Ranges | 183 | 2 | — | — | 185 |
| | Parlours | 110 | 255 | 15 | — | 380 |
| | Bedrooms | 670 | 1280 | 553 | 11 | 2514 |
| Back-to-Back Houses ... | Living Rooms ... | 4 | 59 | 63 | 2 | 128 |
| | Bedrooms ... | 31 | 63 | 58 | 27 | 179 |
| Single Houses... | Living Rooms with Kitchen Ranges | — | 11 | 9 | — | 20 |
| | Rooms without Kitchen Ranges | 5 | — | — | — | 5 |
| | Bedrooms ... | 10 | 7 | 11 | 2 | 30 |
| Single Room Dwellings ... | — | 1 | 51 | 8 | — | 60 |
| Basements ... | — | — | — | — | — | — |

14 living rooms used as sleeping rooms in addition to bedrooms.

2 " " " " instead of bedrooms.

12 parlours used as sleeping rooms in addition to bedrooms.

3 attics " " " "

OVERCROWDING:—

11 allowing 300 cubic feet per adult in bedrooms.

69 allowing 400 cubic feet per adult in bedrooms.

64 on the basis adopted by the Registrar-General, viz., more than 2 persons to a room.

RENTS.

THROUGH HOUSES.

Rents ranging from 4s. 0d. to 13s. 6d., with both rates ... { 49 at 6s. 9d.
190 at 7s. 1d.
70 at 7s. 5d.
49 at 7s. 7d.

| | | | |
|---|-----|-----|--|
| Rents ranging from 5s. 8d. to 11s. 0d., clear | ... | ... | { 9 at 6s. 2d. 4 at 8s. 4d. 3 at 10s. 0d. |
|---|-----|-----|--|

BACK-TO-BACK HOUSES.

Rents ranging from 3s. 3d. a week to 8s. 1½d. a week, clear.

SINGLE HOUSES.

Rents ranging from 4s. 8d. a week to 7s. 2d., clear.

Single Room Dwellings from 2s. 5d. to 5s. 0d., clear.

STORAGE OF FOOD.

1353 had cupboards.

69 had cupboards and pantries.

17 had shelves.

STORAGE OF COAL.

632 had places under the stairs.

392 had cellars.

377 stored coal in yards.

39 had no proper storage for coal.

WATER SUPPLY.

All houses were supplied with Town water.

952 had taps in living rooms.

190 " " scullery kitchens.

229 " " sculleries.

69 " " in other places.

DRAINS.

All houses were provided with drains.

55 had drains underneath (cellar drains).

581 ventilated by downspouts.

572 sloptraps.

103 gullies in cellars.

566 yard gullies.

562 Dishbrick inlets to waste water closets.

DOWNSPOUTS.

212 near doors.

302 near windows.

169 on corner of buildings.

581 connected to drains.

Remainder discharging on to sloptraps, yard flags and footpaths.

SLOP-PIPES.

1,373 inside.

67 outside.

YARDS.

1,197 houses had back yards for own use.
 314 under 100 square feet.
 505 between 100 and 125 square feet.
 360 between 125 and 200 square feet.
 18 above 200 square feet.

SANITARY CONVENIENCES.

1,228 had separate conveniences.
 82 joined at 41=2 to 1.
 130 joined at closets used in common with houses previously inspected.

CLEAN-WATER CLOSETS.

207 with separate cisterns.

WASTE-WATER CLOSETS: 1,062.

ASHPITS.

Large Covered—7, used by 34 houses.
 Small Covered 738
 716 had ashpits for own use.
 44 joined at ashpit with 22 others=2 to 1.
 114 joined at ashpits with other houses previously inepected.

ASHBINS. 479

455 had bin for own use.
 48 joined at ashbin with another=2 to 1.
 29 joined at ashbins with other houses previously reported.

DEFECTS FOUND:

DAMPNESS—

| | | | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Living Rooms | ... | ... | ... | ... | ... | ... | 57 |
| Caused by want of pointing | ... | ... | ... | ... | ... | ... | 42 |
| „ absence of damp-proof course | ... | ... | ... | ... | ... | ... | 11 |
| „ defective flashing to window | ... | ... | ... | ... | ... | ... | 4 |
| Parlours | ... | ... | ... | ... | ... | ... | 15 |
| Caused by want of pointing | ... | ... | ... | ... | ... | ... | 9 |
| „ absence of damp-proof course | ... | ... | ... | ... | ... | ... | 6 |
| Bedrooms | ... | ... | ... | ... | ... | ... | 189 |
| Defective roofs | ... | ... | ... | ... | ... | ... | 109 |
| Defective spouting | ... | ... | ... | ... | ... | ... | 28 |
| Want of wall pointing | ... | ... | ... | ... | ... | ... | 41 |
| Defective window frames | ... | ... | ... | ... | ... | ... | 11 |

WANT OF CLEANLINESS—

18 living rooms were in need of re-papering, and 57 bedrooms required white or colour washing.

VENTILATION—

4 bedrooms poorly ventilated, roof lights not openable.

WINDOWS—

539 defects were found in connection with living room windows.

45 " " " " " scullery kitchen windows.

811 " " " " " bedroom windows.

STATE OF REPAIR:

LIVING ROOMS—

58 doors, jamb stones or steps, out of repair.

195 with defective walls.

209 " " floors.

73 " " ceilings.

817 defects were found in connection with fireplaces, ovens and boilers.

6 lobbies had defective floors, and 9 defective plastering.

9 stairs out of repair.

77 staircases and 2 landings had defective plastering.

SCULLERIES—

87 windows were not openable, and 7 had defective window frames.

47 had walls or ceilings out of repair, and 8 roofs were defective.

6 had floors out of repair, 7 with doors out of repair.

50 were without downspouts and eaves spouts, and 4 had defective eaves.

4 downspouts defective.

37 defects were found in connection with set boilers.

BEDROOMS—

10 with doors off or out of repair.

257 walls out of repair.

70 floors "

159 ceilings "

23 fireplaces "

372 without fireplaces.

9 fireplaces built up, 38 blocked up.

FOOD STORES—

7 cupboards out of repair.

DRAINS—

20 blocked.

31 dishbricks broken or required cementing at back.

18 dishbricks without grates.

DOWN-SPOUTS—

48 broken or blocked.

SLOPSTONES—

102 worn, allowing water to lodge or flow over on to the floor.

13 had defective woodwork or cementing at back.

3 had defective brickwork supporting.

SLOP-PIPES—

6 closed and 41 defective.

CLOSETS—

58 defects were found in connection with clean-water closets, and 247 in connection with waste-water closets.

ASHPITS—

58 ashpits and 8 ashbins defective.

YARDS—

137 with broken or sunken flags.

12 with defective walls.

51 had doors out of repair.

10 were without doors.

MISCELLANEOUS PARTICULARS—

66 of the houses had forecourts ; 159 were lobbied, 6 had vestibules and lobbies, 38 had vestibules only, and 9 were provided with baths.

106 were occupied by the owners, and 13 were houses and shops.

107 houses were each occupied by 2 families, and 1 by 3 families.

1 house occupied by more than 1 family was overcrowded, allowing 300 cubic feet per adult in bedrooms ; 9 houses allowing 400 cubic feet, and 7 on the basis adopted by the Registrar-General, i.e., more than 2 persons to a room.

BANK HALL CHILDREN'S HOSPITAL.

TABLE I.—SHEWING DISEASES AND RESULT OF TREATMENT OF CHILDREN ADMITTED.
PERIOD—1/1/1928 TO 31/12/1928.

| Cause of Admission. | Remain- ing on Jan. 1st, 1928 | Ad- mitted in 1928 | Total | Discharged— | | | Died. | Rem- aining in Hos- pital. |
|----------------------------|--|--------------------------|-------|-------------------|----------------|--------------------|-------|-------------------------------------|
| | | | | In good health | Im- proved. | Not Im- proved. | | |
| Marasmus | 4 | 17 | 21 | 6 | 5 | — | 9 | 1 |
| Tuberculosis | 3 | 2 | 5 | — | 2 | 2 | — | 1 |
| Alimentary Diseases | 3 | 24 | 27 | 13 | 2 | 2 | 4 | 6 |
| Respiratory Diseases | 1 | 12 | 13 | 9 | 1 | 1 | 2 | — |
| Minor Ailments | 1 | — | 1 | — | 1 | — | — | — |
| Rickets | 8 | 34 | 42 | — | 25 | 7 | — | 10 |
| Debility | 2 | 10 | 12 | 3 | 5 | — | — | 4 |
| Prematurity | — | 9 | 9 | — | 2 | — | 5 | 2 |
| Birth Injuries | — | 1 | 1 | — | — | 1 | — | — |
| Teething | — | 2 | 2 | 2 | — | — | — | — |
| Boils | — | 1 | 1 | 1 | — | — | — | — |
| Coryza | — | 1 | 1 | 1 | — | — | — | — |
| Convulsions | — | 3 | 3 | 1 | 1 | — | 1 | — |
| Meningitis | — | 1 | 1 | — | — | — | 1 | — |
| Total | 22 | 117 | 139 | 36 | 44 | 13 | 22 | 24 |

TABLE II.—THE FOLLOWING TABLE SHEWS THE AGES AND THE NUMBER OF THE CHILDREN
ADMITTED. PERIOD—1/1/28 TO 31/12/28.

| Under 1 week | 1-2 weeks | 2-4 weeks | 1-2 m'ths. | 2-3 m'ths. | 3-4 m'ths. | 4-5 m'ths. | 5-6 m'ths. | 6-7 m'ths. | 7-12 m'ths. | 1-2 yrs. | 2-3 yrs. | 3-4 yrs. | Over 4 yrs. | Total |
|-----------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|-------------|-------------|-------------|----------------|-------|
| 3 | 4 | 2 | 10 | 7 | 11 | 1 | 3 | 7 | 18 | 33 | 15 | 2 | 1 | 117 |

TABLE III.—AVERAGE DURATION OF STAY OF CHILDREN DISCHARGED (NOT INCLUDING
THOSE REMOVED BY RELATIONS AGAINST MEDICAL ADVICE).

| Reason for Admission. | Average duration of Stay in Days. |
|--------------------------|--------------------------------------|
| Marasmus | 98.1 |
| Rickets | 91.2 |
| Respiratory... .. | 55.1 |
| Alimentary | 72.9 |
| Other Conditions | 83.9 |

TABLE IV.—SOURCE OF ADMISSION OF CHILDREN.

| General Practitioners. | Out-patient Clinic. | Maternity Ward. |
|---------------------------|------------------------|--------------------|
| 41 | 72 | 4 |

NOTE.—As in previous years a large number of those admitted from the out-patient clinics have been advised to go there by the Health Visitors.

TABLE V.—SHEWING THE AGES AND CAUSES OF DEATH OF CHILDREN AT BANK HALL CHILDREN'S HOSPITAL.

PERIOD—1/1/1928 TO 31/12/1928.

| Cause of Death. | Total | SEX. | | AGE PERIOD. | | | | | | | | | |
|-------------------------|-------|------|----|------------------|---------------|---------------|---------------|----------------|----------------|----------------|-----------------|---------------|---------------|
| | | M. | F. | Under 1 week. | 1—2 weeks. | 2—3 weeks. | 3—4 weeks. | 1—3 months. | 3—6 months. | 6—9 months. | 9—12 months. | 1—2 years. | 2—3 years. |
| Marasmus | 9 | 2 | 7 | — | 2 | 1 | — | — | 5 | 1 | — | — | — |
| Respiratory Diseases .. | 2 | 1 | 1 | — | — | — | — | — | — | 1 | — | 1 | — |
| Prematurity | 5 | 2 | 3 | 1 | 2 | 1 | — | 1 | — | — | — | — | — |
| Alimentary Diseases ... | 3 | 1 | 2 | — | 1 | — | — | — | 1 | — | 1 | — | — |
| Meningitis | 1 | — | 1 | — | — | — | — | — | — | — | — | 1 | — |
| Convulsions | 2 | 1 | 1 | — | — | — | — | — | 1 | 1 | — | — | — |
| Total | 22 | 7 | 15 | 1 | 5 | 2 | — | 1 | 7 | 3 | 1 | 2 | — |

BANK HALL MATERNITY HOSPITAL—1928.

| | | | | | | |
|--|-----|-----|-----|-----|-----|-----|
| Cases in Hospital on 1st January, 1928 | ... | ... | ... | ... | ... | 13 |
| Number of Cases Admitted in 1928 | ... | ... | ... | ... | ... | 417 |
| Cases remaining in Hospital on 31st December, 1928 | ... | ... | ... | ... | ... | 17 |
| Number of External Cases | ... | ... | ... | ... | ... | 4 |

TABLE VI.—SHEWING PARTICULARS OF THE INTERNAL CASES DEALT WITH.

| No. of Cases. | NATURE OF CASE. | No. of Births. | DEATHS. | | | | |
|---------------|---------------------------------|----------------|----------------|-------------|----|---------------|----|
| | | | Mater- nal. | Infantile.* | | Stillbirths.† | |
| | | | | M. | F. | M. | F. |
| 5 | Placenta Praevia | 5 | — | — | 2 | — | 2 |
| | Contracted Pelvis :— | | | | | | |
| 5 | (a) Caesarian Section | 5 | — | 1 | — | — | — |
| 31 | (b) Instrumental Delivery | 31 | — | — | 1 | 2 | 1 |
| 13 | (c) Non-Instrumental | 13 | — | — | — | — | — |
| 17 | Malpresentations | 17 | — | 1 | 2 | — | 2 |
| 24 | Toxæmia of Pregnancy | 24 | — | — | 1 | 2 | — |
| 27 | Intercurrent Ailments | 27 | 1 | 2 | — | — | 2 |
| 13 | Ante-partum Hæmorrhage | 13 | — | — | — | 2 | — |
| 3 | Adherent Placenta | 3 | — | — | — | — | — |
| 3 | Prolapse of Cord | 3 | — | — | — | — | — |
| 10 | Abortions | — | — | — | — | — | — |
| 257 | Normal Cases | 259 | — | 5 | 5 | 1 | 1 |
| 9 | Patients not delivered | — | — | — | — | — | — |
| 417 | | 400 | 1 | 9 | 11 | 7 | 8 |

NOTE—*Of the 20 Infantile Deaths 10 were premature.

†Of the 15 Stillbirths 11 were premature and 3 were macerated.

ANNUAL STATISTICS.

Form 11 M.C.W.

MATERNITY AND CHILDREN'S HOSPITAL.

BANK HALL BURNLEY.

Number of Beds 20

| INFORMATION REQUIRED. | PARTICULARS. |
|---|---|
| (1) Number of cases in the Home on 1st January, 1928 | 13 |
| (2) Number of cases admitted during 1928 | 417 (17 of these were admitted for Ante-Natal treatment). |
| (3) Average duration of stay | Ante-Natal Cases, 16.5 days. Confinements, 14.2 days. |
| (4) No. of cases delivered by | |
| (a) Midwives | 348 |
| (b) Doctors | 50 } 398 |
| (5) No. of cases in which medical assistance was sought by the midwife, with reasons for requiring assistance | |
| (a) Ante-Natal | (a) 369 cases seen by Doctor in ordinary routine way. 31 emergency cases. |
| (b) During Labour | (b) 40. Reasons :— Adherent Placenta 4 Ante-partum Hæmorrhage ... 1 Prolonged Labour 26 Malpresentation..... 5 Eclampsia 2 Prolapse of Cord 1 Collapse 1 |
| (c) After labour (state separately number of ruptured perineums which required suture). | (c) 46. Reasons :— Ruptured Perineum 46 |
| (d) For infant | (d) 28. Reasons :— Dangerous feebleness 17 Malformations 8 Convulsions 3 |
| (6) No. of cases notified as :— | |
| (a) Puerperal Fever | Nil. |
| (b) Puerperal Pyrexia (i.e. rise of temperature to 100.4°F. for 24 hours or its recurrence within that period) with the result of treatment in each case. | 11—10 discharged in good health 1 died. (Pulmonary Tuberculosis). |
| (7) No. of cases of pemphigus neonatorum | Nil. |
| (8) No. of cases notified as ophthalmia neonatorum, with result of treatment in each case | Nil. |

| INFORMATION REQUIRED. | PARTICULARS. |
|---|---|
| (9) No. of cases of "inflammation of the eyes," however slight | 1. Responded satisfactorily to treatment. |
| (10) No. of infants not entirely breast-fed while in the Institution, with reasons why they were not breast-fed | 4. Reasons:— Cardiac Disease of Mother 3 Mammary Abscess 1 |
| (11) No. of maternal deaths, with causes ... | 1. From Pulmonary Tuberculosis. |
| (12) No. of foetal deaths:— (a) Stillborn | Premature 9 Macerated 1 Full Time 2 Anencephalic 2 Hydrocephalus 1 — 15 — |
| (b) Within 10 days of birth and their causes, and the results of the post-mortem examination, if obtainable. | Hydrocephalic and Spina Bifida..... 1 Atelectasis 2 Convulsions 6 Hæmorrhagic Disease 1 Prematurity 10 — 20 No Post-Mortems were performed on any of the above fatal cases |

METEOROLOGY.

THE METEOROLOGICAL OBSERVATORY is at Queen's Park. It is attached to the Meteorological Office and is called an Auxiliary Climatological Station. The results of the observations are sent to that office, and monthly returns are published from all the places that supply readings. A weekly return of temperature and rainfall is also sent by us for the use of the Registrar-General, and is published in a weekly return sent out from his office.

The Instruments consist of a Kew pattern barometer—in the potting shed—the reservoir of which is 458 feet above sea level. In the enclosure are the following:—

| | | |
|---------------------------|---|-----------------------|
| In the Stephenson Screen: | { | Wet Bulb Thermometer. |
| | | Dry Bulb Thermometer. |
| | | Maximum Thermometer. |
| | { | Minimum Thermometer. |

Solar Radiation Maximum Thermometer.

Grass Minimum Thermometer.

Earth Thermometer—1 foot.

—4 feet.

Sunshine Recorder. (Campbell Stokes).

Rain Gauge. (8 inches in diameter).

The floor of the Stephenson screen is 461 feet above sea level.

The Readings are taken daily at 9 o'clock a.m., G.T., and the results are posted each day in front of the Town Hall, and published on the Wednesday in each of the two local papers.

The following Table gives a Monthly Summary of the Readings:—

MEAN METEOROLOGICAL READINGS, MADE AT QUEEN'S PARK, 1928.

APPENDIX 4.

LAT. : 53° 47' 30 N. LONG. : 2° 14' 30 W.

Barometer Cistern 458 feet above Mean Sea Level.

| 1928 | THERMOMETERS | | | | | | | | | | RAINFALL. | | | | BRIGHT SUNSHINE. | | | | DIRECTION OF THE WIND AT 9 A.M. G.T. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Mean Air Pressure at Mean Sea Level. | IN SCREEN. | | | | Mean Min. on Grass | Mean Solar Max. | IN GROUND. | | Mean Relative Humidity. | Most in a day | | No. of days of Sun | Total Am-ount. | Daily Mean. | Most in a day | No. of DAYS OF : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Mean Max. | Mean Min. | Mean Temp. | Absolute Extremes of Temperature. | | | Total Fall. | Am-ount of month | | N. | N.E. | | | | | E. | S.E. | S. | S.W. | W. | N.W. | C'lin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Highest | | | | | | | | | | | | | | | | | | | Lowest. | Date | Date | Am-ount. | Day of Month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mbbs. inches. | | | | | | | | | % | M.M. | M.M. | Hrs. | Hrs. | Hrs. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

During the year the amount of rainfall in millimetres, according to wind direction at 9 a.m., was as follows:—

| Direction of Wind. | N. | N.E. | N.W. | S. | S.E. | S.W. | E. | W. | Calm | Total |
|-------------------------|-----|------|------|------|------|-------|-------|-------|--------|---------|
| Rainfall in Millimetres | 0.4 | 3.7 | 8.3 | Nil. | 15.1 | 309.5 | 151.3 | 610.1 | 207.15 | 1305.55 |

WEATHER PHENOMENA.

NUMBER OF DAYS OF

| Snow | Snow lying | Hail | Thunderstorm | Fog | Ground Frost | Gale |
|------|------------|------|--------------|-----|--------------|------|
| 13 | 7 | 11 | 9 | 15 | 89 | 2 |

SUMMARY OF MEAN METEOROLOGICAL READINGS, 1908-1928.

| Year | Air Pressure at Mean Sea Level. | | THERMOMETERS IN SCREEN. ABSOLUTE EXTREMES OF TEMPERATURE. | | | | | | Mean Solar Max. | GRASS MINIMUM. | | No. of Days of Ground Frost. | EARTH THER- MOMETERS | | Relative Humidity. | RAINFALL. Most in a DAY. | | | | BRIGHT SUNSHINE. Most in a DAY. | | | | | | | | |
|----------------|---------------------------------------|--------|---|----------------|-------------------------------|---------|------------------------------|----------|-----------------------|-------------------|----------|--|----------------------------|------|-----------------------|--------------------------------|----------------|---------------|--------------|---------------------------------------|--------------|---------------|--------------|-------|------|--------------|---------|---------|
| | | | Mean Temp. | Daily Range | High- est Read- ing. | Date. | Low- est Read- ing. | Date. | | | | | | | | No. of Days | Total Fall. | Amount | Date. | No. of Days | Am- ount. | Daily Mean | Am- ount. | Date. | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1908 | 29.982 | 1015.3 | ° 47.1 | 12.5 | 82 | 2.7.08 | 12 | 2.12.08 | 88.7 | 11 | 5.1.08 | 134 | 47.3 | 47.5 | 83.4 | 193 | Ins. 37.27 | M.M. 946.7 | Ins. 1.27 | M.M. 32.3 | 20.9.08 | 272 | Hrs. 1201 | 3.3 | 15.0 | Hrs. 15.0 | 30.6.08 | |
| 1909 | 29.934 | 1013.6 | ° 45.8 | 13.0 | 77 | 15.5.09 | 10 | 20.12.09 | 94.7 | 10 | 6.12.09 | 170 | 45.5 | 46.3 | 83.0 | 190 | 40.20 | 1021.1 | 1.11 | 28.2 | 3.2.09 | 282 | 1144 | 3.1 | 13.5 | Hrs. 13.5 | 5.5.09 | |
| 1910 | 29.861 | 1011.2 | ° 47.0 | 12.8 | 78.5 | 13.7.10 | 11 | 27.1.10 | 88.0 | 7 | 22.1.10 | 109 | 46.6 | 46.9 | 82.3 | 209 | 48.04 | 1220.2 | 1.86 | 47.2 | 10.11.10 | 283 | 1144 | 3.1 | 14.4 | Hrs. 14.4 | 8.5.09 | |
| 1911 | 29.987 | 1015.4 | ° 48.1 | 13.1 | 85 | 9.8.11 | 17 | 1.2.11 | 89.1 | 11 | 1.2.11 | 106 | 47.9 | 48.1 | 80.5 | 183 | 44.14 | 1121.2 | 1.61 | 40.9 | 17.6.11 | 288 | 1334 | 3.7 | 14.6 | Hrs. 14.6 | 8.6.11 | |
| 1912 | 29.910 | 1012.8 | ° 46.5 | 11.5 | 82 | 15.7.12 | 9 | 3.2.12 | 85.0 | Zero | 3.2.12 | 118 | 47.3 | 47.9 | 83.5 | 215 | 48.09 | 1221.5 | 1.44 | 36.6 | 26.10.12 | 262 | 894 | 2.4 | 13.1 | Hrs. 13.1 | 23.4.12 | |
| 1913 | 29.955 | 1014.4 | ° 48.1 | 11.2 | 75 | 2.8.13 | 15 | 31.12.13 | 86.4 | 10 | 31.12.13 | 86 | 47.7 | 44.7 | 82.7 | 194 | 39.45 | 1002.0 | 1.17 | 29.7 | 15.4.13 | 271 | 1055 | 2.9 | 13.3 | Hrs. 13.3 | 26.7.13 | |
| 1914 | 29.936 | 1013.7 | ° 47.8 | 13.0 | 83 | 21.7.14 | 18 | 1.1.14 | 87.9 | 14 | 1.1.14 | 103 | 48.0 | 48.5 | 81.9 | 220 | 46.10 | 1170.9 | 1.26 | 32.0 | 11.11.14 | 287 | 1205 | 3.3 | 15.1 | Hrs. 15.1 | 14.6.14 | |
| 1915 | 29.910 | 1012.8 | ° 45.5 | 14.1 | 74 | 12.6.15 | 15 | 13.12.15 | 88.9 | 9 | 13.12.15 | 117 | 46.5 | 47.4 | 80.8 | 200 | 40.23 | 1021.8 | 1.30 | 33.5 | 15.1.15 | 292 | 1218 | 3.3 | 14.9 | Hrs. 14.9 | 18.6.15 | |
| 1916 | 29.856 | 1011.0 | ° 45.8 | 12.9 | 77 | 12.6.16 | 19 | 16.12.16 | No therm | 18 | 6.12.16 | 117 | 47.1 | 47.5 | 83.2 | 223 | 44.87 | 1139.7 | 1.33 | 33.8 | 15.8.16 | 272 | 975 | 2.7 | 13.7 | Hrs. 13.7 | 16.6.16 | |
| 1917 | 29.950 | 1014.1 | ° 45.3 | 11.6 | 79 | 19.5.17 | 6 | 5.2.17 | do. | 15 | 10.3.17 | 127 | 46.0 | 46.7 | 81.1 | 172 | 36.68 | 931.7 | 1.04 | 26.4 | 10.3.17 | 279 | 1136 | 3.1 | 15.0 | Hrs. 15.0 | 1.7.17 | |
| 1918 | 29.800 | 1009.2 | ° 48.0 | 13.1 | 80 | 22.5.18 | 6 | 14.1.18 | do. | 13 | 9.1.18 | 104 | 47.6 | 45.8 | 78.4 | 205 | 32.39 | 823.7 | 1.18 | 30.0 | 15.9.18 | 288 | 1189 | 3.2 | 14.0 | Hrs. 14.0 | 19.5.18 | |
| 1919 | 29.893 | 1012.3 | ° 45.0 | 13.0 | 81 | 30.5.19 | 14 | 16.11.19 | do. | 10 | 16.11.19 | 113 | 45.3 | 46.9 | 80.1 | 206 | 35.68 | 906.3 | 1.18 | 30.0 | 1.1.19 | 278 | 1280 | 3.5 | 14.0 | Hrs. 14.0 | 14.5.19 | |
| 1920 | 29.976 | 1015.1 | ° 47.5 | 12.0 | 76 | 17.6.20 | 13 | 13.12.20 | 87.7 | 18 | 6.1.20 | 63 | 47.7 | 48.0 | 84.6 | 241 | 42.80 | 1087.2 | 1.39 | 35.2 | 9.2.20 | 271 | 1018 | 2.8 | 14.7 | Hrs. 14.7 | 24.5.20 | |
| 1921 | 30.086 | 1018.8 | ° 48.9 | 13.0 | 85 | 25.6.21 | 21 | 9.11.21 | 91.7 | 19 | 16.4.21 | 72 | 49.5 | 49.5 | 79.6 | 210 | 37.40 | 948.5 | 1.34 | 34.0 | 27.12.21 | 272 | 1361 | 3.7 | 15.3 | Hrs. 15.3 | 9.6.20 | |
| 1922 | 29.954 | 1014.3 | ° 45.6 | 12.4 | 82 | 1.6.22 | 17 | 18.1.22 | 87.7 | 16 | 6.2.22 | 98 | 46.6 | 47.9 | 81.9 | 225 | 43.79 | 1111.7 | 1.64 | 41.8 | 8.8.22 | 278 | 1072 | 2.9 | 14.8 | Hrs. 14.8 | 29.6.21 | |
| 1923 | 29.904 | 1012.6 | ° 46.4 | 11.6 | 84 | 13.7.23 | 17 | 30.11.23 | No therm | 15 | 30.11.23 | 96 | 47.1 | 47.8 | 83.4 | 256 | 57.90 | 1471.8 | 1.80 | 45.8 | 12.4.23 | 263 | 1035 | 2.8 | 12.3 | Hrs. 12.3 | 12.6.23 | |
| 1924 | 29.924 | 1013.3 | ° 46.9 | 11.7 | 80 | 12.7.24 | 17 | 3.3.24 | do | 15 | 9.1.24 | 110 | 47.3 | 47.3 | 82.9 | 241 | 42.10 | 1068.8 | 1.20 | 30.5 | 31.5.24 | 275 | 950 | 2.6 | 13.6 | Hrs. 13.6 | 14.6.24 | |
| 1925 | 29.946 | 1014.2 | ° 46.7 | 12.9 | 84 | 25.7.25 | 15 | 25.12.25 | do | 11 | 14.12.25 | 139 | 47.4 | 48.2 | 81.5 | 214 | 41.4 | 1051.4 | 1.24 | 31.1 | 10.2.25 | 284 | 1097 | 3.0 | 13.2 | Hrs. 13.2 | 9.6.25 | |
| 1926 | 29.961 | 1014.7 | ° 47.8 | 12.6 | 84 | 13.7.26 | 19 | 31.10.26 | 92.0 | 12 | 31.10.26 | 97 | 48.7 | 48.6 | 81.8 | 223 | 44.0 | 1099.0 | 1.49 | 37.3 | 1.11.26 | 290 | 1021 | 2.8 | 14.4 | Hrs. 14.4 | 2.7.26 | |
| 1927 | 29.919 | 1013.2 | ° 46.8 | 11.8 | 78 | 10.7.27 | 18 | 20.12.27 | 87.0 | 12 | 20.12.27 | 83 | 47.9 | 48.3 | 82.0 | 228 | 46.63 | 1184.4 | 1.43 | 36.3 | 21.7.27 | 271 | 948 | 2.6 | 13.9 | Hrs. 13.9 | 8.5.27 | |
| Mean 20 yrs | 29.932 | 1013.6 | ° 46.8 | 12.4 | — | — | — | — | — | — | — | 108 | 47.3 | 47.5 | 81.9 | 213 | 42.46 | 1077.5 | — | — | — | 278 | 1114 | 3.0 | — | Hrs. — | — | — |
| 1928 | 29.932 | 1013.6 | ° 47.6 | 13.0 | 75 | 11.7.28 | 18 | 9.12.28 | 87.3 | 13 | 9.12.28 | 89 | 47.9 | 48.1 | 81.0 | 238 | 51.4 | 1305.5 | 2.04 | 51.8 | 20.8.28 | 285 | 1089 | 2.95 | 4.6 | Hrs. 4.6 | 2.6.28 | 20.6.28 |

**Extract from the Report of the Medical Officer of the Burnley Joint
Hospital Board, 1928.**

TABLE shewing the Notifications of the Four Principal Infectious Diseases in the areas of the Constituent Authorities, and the numbers isolated, together with the percentage isolated:—

| Authority. | Scarlet Fever. | Enteric Fever. | Ery- sipelas. | Diph- theria. | Total. |
|---|-------------------|-------------------|------------------|------------------|--------|
| BURNLEY BOROUGH (including Workhouse)— | | | | | |
| Total Notified | 144 | 5 | 87 | 95 | 331 |
| Total Isolated | 68 | 5 | 25 | 57 | 155 |
| Percentage Isolated ... | 47·2 | 100·0 | 28·8 | 60·0 | 46·8 |
| BURNLEY RURAL DISTRICT— | | | | | |
| Total Notified | 42 | 1 | 6 | 22 | 71 |
| Total Isolated | 20 | 1 | — | 14 | 35 |
| Percentage Isolated ... | 47·6 | 100·0 | — | 63·6 | 49·3 |
| BRIERFIELD URBAN DISTRICT— | | | | | |
| Total Notified | 16 | — | 4 | 5 | 25 |
| Total Isolated | 12 | — | — | 1 | 13 |
| Percentage Isolated ... | 75·0 | — | — | 20·0 | 52·0 |
| PADIHAM URBAN DISTRICT— | | | | | |
| Total Notified | 72 | 2 | 10 | 53 | 137 |
| Total Isolated | 46 | 2 | 1 | 52 | 101 |
| Percentage Isolated ... | 63·9 | 100·0 | 10·0 | 98·1 | 73·7 |

POLICE COURT PROCEEDINGS DURING 1928.

| Date of Decision | Act, Bye-law or Regulation under which proceedings taken | Offence. | Result. |
|------------------|--|--------------------------------------|---------------------------------------|
| Oct. 3 | Public Health Act, 1875, Sec. 50 | Failure to remove manure | Fine and Costs, £2 9s. 0d. |
| Oct. 30 | Bye-laws, Houses-let-in-Lodgings | Overcrowding Intermixing of Sexes | Fined 10/- Fined 10/- |
| Nov. 21 | Public Health Act, 1875, Secs. 91-94 | Nuisance | Work done. Withdrawn. Costs 3/6 |
| Dec. 14 | Bye-laws, Houses-let-in-Lodgings | Failure to limewash | Work done. Withdrawn. Costs 2/6 |

APPENDIX 7.

TABLE SHEWING MEDICAL EXAMINATIONS MADE FOR THE FINANCE COMMITTEE UNDER THE WORKMEN'S COMPENSATION ACT.

| Department. | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 |
|--------------------------------------|------|------|------|------|------|------|------|------|
| CLEANSING ... | 9 | 3 | 2 | 7 | 1 | 8 | 13 | 60 |
| EDUCATION... | 5 | 1 | — | 6 | 1 | 3 | 3 | 1 |
| ELECTRICITY ... | 7 | 10 | 4 | 15 | 20 | 4 | 6 | 24 |
| GAS ... | 45 | 24 | 28 | 49 | 73 | 25 | 57 | 46 |
| HEALTH ... | 2 | — | — | — | — | — | — | — |
| HIGHWAYS ... | — | — | — | — | — | — | — | — |
| AND SEWAGE ... | 16 | 4 | 14 | 30 | 30 | 36 | 8 | 29 |
| HOUSING ... | 1 | 1 | — | 4 | 2 | — | — | — |
| HURSTWOOD ... | 44 | 27 | 31 | 9 | 9 | 2 | 1 | 1 |
| IMPROVEMENT ... | 6 | 8 | 1 | 7 | 11 | 3 | — | 13 |
| MARKETS ... | 1 | — | — | — | 3 | 10 | — | 1 |
| PARKS ... | — | — | 6 | 3 | 11 | 6 | — | 2 |
| TRAMWAYS ... | 51 | 19 | 47 | 45 | 50 | 55 | 41 | 58 |
| TOWN HALL, BATHS AND CEMETERY ... | 1 | — | — | 1 | 5 | 3 | 7 | 3 |
| WATER ... | — | — | 4 | — | 1 | — | — | 5 |
| PAINTING ... | — | — | — | 3 | 1 | 1 | — | 8 |
| JOINERY ... | — | — | — | 8 | — | — | 4 | — |
| PERMANENT WAY ... | — | — | — | 4 | 18 | 26 | 10 | — |
| SURVEYORS... | — | — | — | 1 | — | — | — | — |
| Totals ... | 188 | 97 | 137 | 192 | 236 | 182 | 150 | 251 |

TABLE SHEWING MEDICAL EXAMINATIONS OF FITNESS OF EMPLOYEES OF THE TRAMWAYS DEPARTMENT.

| 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 |
|--------|--------|--------|---------|--------|---------|---------|------|
| 30 ... | 22 ... | 30 ... | 221 ... | 94 ... | 125 ... | 131 ... | 123 |

EXAMINATIONS OF TUBERCULOUS EX-SERVICE MEN FOR THE MINISTRY OF PENSIONS

| 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 |
|---------|---------|---------|---------|---------|--------|--------|------|
| 146 ... | 181 ... | 166 ... | 113 ... | 120 ... | 90 ... | 99 ... | 40 |

TUBERCULOSIS.

APPENDIX 8.

RETURN SHOWING THE IMMEDIATE RESULTS OF TREATMENT OF PATIENTS AND OF OBSERVATION OF DOUBTFUL CASES DISCHARGED FROM RESIDENTIAL INSTITUTIONS DURING THE YEAR 1928.

| Classification on admission to the Institution. | | Condition at time of discharge. | Duration of Residential Treatment in the Institution. | | | | | | | | | | | | |
|---|---------------------------|---------------------------------|---|----|-----|------------|----|-----|-------------|----|-----|---------------------|----|-----|-------|
| | | | Under 3 months | | | 3—6 months | | | 6—12 months | | | More than 12 months | | | Total |
| | | | M. | F. | Ch. | M. | F. | Ch. | M. | F. | Ch. | M. | F. | Ch. | |
| PULMONARY TUBERCULOSIS. | Class T. B. minus. | Quiescent | 1 | 3 | — | 5 | 3 | — | 1 | 1 | — | — | — | — | 14 |
| | | Improved | 3 | 4 | — | 3 | — | — | — | 1 | — | — | — | — | 11 |
| | | No material improvement | 1 | 1 | — | 2 | — | — | 2 | 2 | — | — | — | — | 8 |
| | | Died in Institution ... | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | Class T.B. plus. Group 1. | Quiescent | 2 | 1 | 1 | 4 | — | — | — | — | — | — | 1 | — | 9 |
| | | Improved | 1 | 1 | — | 1 | 1 | — | — | 1 | — | — | — | — | 5 |
| | | No material improvement | 1 | 1 | — | 2 | — | — | — | 1 | — | — | — | — | 5 |
| | | Died in Institution ... | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | Class T.B. plus. Group 2. | Quiescent | 1 | — | — | 1 | 2 | — | 4 | 1 | — | — | — | — | 9 |
| | | Improved | — | — | — | 6 | — | — | 4 | 1 | — | 2 | — | — | 13 |
| | | No material improvement | — | 6 | — | 3 | 1 | — | 1 | 1 | — | — | — | — | 12 |
| | | Died in Institution ... | 3 | 2 | — | — | 1 | — | 1 | — | — | — | — | — | 7 |
| | Class T.B. plus. Group 3. | Quiescent | — | 1 | — | — | — | — | — | — | — | — | — | — | 1 |
| | | Improved | — | — | — | 1 | 1 | — | — | — | — | — | — | — | 2 |
| | | No material improvement | 1 | 2 | — | — | 1 | — | — | — | — | — | — | — | 4 |
| | | Died in Institution ... | — | — | — | — | — | — | 1 | — | — | — | — | — | 1 |

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912.

Summary of Notifications during the period from the 1st January, 1928, to the 29th December, 1928, in the County Borough of Burnley.

| Age-periods. | Notifications on Form A. | | | | | | | | | | | | Total Notifications on Form A. |
|-------------------------|----------------------------------|--------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------------|-----------------------------------|--------------------------------------|
| | Number of Primary Notifications. | | | | | | | | | | | | |
| | 0 to 1 | 1 to 5 | 5 to 10 | 10 to 15 | 15 to 20 | 20 to 25 | 25 to 35 | 35 to 45 | 45 to 55 | 55 to 65 | 65 and upwards | Total Primary Notifications | |
| Pulmonary Males ... | — | — | — | 1 | 10 | 7 | 12 | 14 | 9 | 10 | 4 | 67 | 85 |
| „ Females ... | — | 1 | 2 | 3 | 9 | 9 | 20 | 12 | 5 | 3 | — | 64 | 74 |
| Non-pulmonary Males ... | 1 | 4 | 6 | 2 | 5 | 2 | 1 | 1 | 2 | 1 | 3 | 28 | 40 |
| „ „ Females ... | 1 | 3 | 2 | 3 | 8 | 6 | 3 | 3 | 1 | 2 | — | 32 | 37 |

| Age-periods. | Notifications on Form B. | | | | | Number of Notifications on Form C. | |
|-------------------------|---------------------------------|---------|----------|-----------------------------|--------------------------------|------------------------------------|------------|
| | Number of Primary Notifications | | | | Total Notifications on Form B. | Poor Law Institutions. | Sanatoria. |
| | Under 5 | 5 to 10 | 10 to 15 | Total Primary Notifications | | | |
| Pulmonary Males ... | — | — | — | — | — | 21 | 53 |
| „ Females ... | — | — | — | — | — | 9 | 37 |
| Non-pulmonary Males ... | — | — | — | — | — | 5 | — |
| „ „ Females ... | — | — | — | — | — | 2 | 4 |

SUPPLEMENTAL RETURN.

| Age Periods. | 0 to 1 | 1 to 5 | 5 to 10 | 10 to 15 | 15 to 20 | 20 to 25 | 25 to 35 | 35 to 45 | 45 to 55 | 55 to 65 | 65 and upwards | Total Cases |
|-------------------------|--------|--------|---------|----------|----------|----------|----------|----------|----------|----------|----------------|-------------|
| Pulmonary Males | — | — | — | — | — | — | 2 | — | 1 | — | — | 3 |
| „ Females ... | — | — | — | — | — | — | — | — | — | — | — | — |
| Non-pulmonary Males ... | — | — | — | — | — | — | 1 | 1 | — | — | — | 2 |
| „ Females ... | — | — | 1 | — | — | — | — | — | — | — | 1 | 2 |

| Source of Information. | No. of Cases. | |
|---|---------------|----------------|
| | Pulmonary. | Non-pulmonary. |
| Death Returns ... | 2 | 4 |
| “ Inward ” Transfers ... | — | — |
| Other Sources, viz.: Notified after death ... | 1 | — |
| Form C and D ... | — | — |

REGISTRAR-GENERAL'S SHORT LIST CLASSIFICATION OF CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE IN THE COUNTY BOROUGH OF BURNLEY DURING 1928.

Deaths under 1 Year:—

| | | |
|---|--------|----------|
| | Legit. | Illegit. |
| M | 59 | 4 |
| F | 48 | 8 |

| Causes of Death. | Sex. | All Ages. | 0— | 1— | 2— | 5— | 15— | 25— | 45— | 65— | 75— |
|--|------|-----------|----|----|----|----|-----|-----|-----|-----|-----|
| ALL CAUSES | M | 660 | 63 | 10 | 11 | 23 | 25 | 84 | 210 | 145 | 89 |
| | F | 685 | 56 | 11 | 9 | 15 | 26 | 73 | 189 | 182 | 124 |
| 1 Enteric Fever | M | 1 | — | — | — | 1 | — | — | — | — | — |
| | F | — | — | — | — | — | — | — | — | — | — |
| 2 Smallpox | M | — | — | — | — | — | — | — | — | — | — |
| | F | — | — | — | — | — | — | — | — | — | — |
| 3 Measles | M | 4 | — | 1 | 1 | 2 | — | — | — | — | — |
| | F | 4 | 1 | 2 | 1 | — | — | — | — | — | — |
| 4 Scarlet Fever | M | 1 | — | — | 1 | — | — | — | — | — | — |
| | F | — | — | — | — | — | — | — | — | — | — |
| 5 Whooping Cough | M | 2 | 2 | — | — | — | — | — | — | — | — |
| | F | — | — | — | — | — | — | — | — | — | — |
| 6 Diphtheria | M | 8 | — | — | 3 | 5 | — | — | — | — | — |
| | F | — | — | — | — | — | — | — | — | — | — |
| 7 Influenza | M | 11 | — | — | — | — | — | 3 | 5 | 2 | 1 |
| | F | 15 | — | — | — | 1 | — | 6 | 4 | 3 | 1 |
| 8 Encephalitis Lethargica ... | M | 2 | — | — | — | — | — | 1 | 1 | — | — |
| | F | 1 | — | — | — | — | — | 1 | — | — | — |
| 9 Meningococcal Meningitis ... | M | — | — | — | — | — | — | — | — | — | — |
| | F | 2 | — | — | 1 | — | — | 1 | — | — | — |
| 10 Tuberculosis of Respiratory System | M | 48 | — | — | — | 1 | 7 | 20 | 18 | 2 | — |
| | F | 35 | — | — | — | — | 10 | 13 | 10 | 2 | — |
| 11 Other Tuberculous Diseases | M | 10 | 1 | — | 1 | 2 | 2 | 2 | 1 | 1 | — |
| | F | 9 | 1 | 3 | — | 2 | — | 1 | 1 | — | 1 |
| 12 Cancer, Malignant Disease | M | 74 | — | — | 1 | — | — | 7 | 34 | 23 | 9 |
| | F | 92 | — | — | — | — | — | 9 | 43 | 29 | 11 |
| 13 Rheumatic Fever | M | 5 | — | — | — | 2 | 3 | — | — | — | — |
| | F | 6 | — | — | — | 2 | 2 | — | 2 | — | — |
| 14 Diabetes | M | 6 | — | — | — | 1 | — | — | 2 | 3 | — |
| | F | 14 | — | — | — | — | — | 1 | 6 | 5 | 2 |
| 15 Cerebral Hæmorrhage. &c. | M | 26 | — | — | — | 1 | — | — | 6 | 15 | 4 |
| | F | 40 | — | — | — | — | — | — | 13 | 18 | 9 |
| 16 Heart Disease | M | 106 | — | — | 1 | — | 3 | 8 | 43 | 33 | 18 |
| | F | 155 | — | — | — | 1 | 2 | 14 | 49 | 56 | 33 |
| 17 Arterio-sclerosis | M | 45 | — | — | — | — | — | — | 16 | 18 | 11 |
| | F | 36 | — | — | — | — | — | — | 7 | 15 | 14 |
| 18 Bronchitis | M | 44 | 8 | 2 | — | 1 | — | 3 | 9 | 10 | 11 |
| | F | 47 | 6 | 1 | — | — | — | 2 | 11 | 18 | 9 |
| 19 Pneumonia (all forms) ... | M | 45 | 10 | 4 | 1 | — | 2 | 13 | 11 | 2 | 2 |
| | F | 29 | 4 | 3 | 4 | — | 4 | 5 | 5 | 1 | 3 |

REGISTRAR-GENERAL'S SHORT LIST CLASSIFICATION OF CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE—(Continued).

[illegible]



COUNTY BOROUGH OF BURNLEY

LOCAL EDUCATION AUTHORITY

Medical Officer's Report 1928

THOMAS HOLT, M.D., D.P.H.,

School Medical Officer.



Education Committee.

FOR THE MUNICIPAL YEAR 1928-29

IS CONSTITUTED AS FOLLOWS:—

*HIS WORSHIP THE MAYOR (COUNCILLOR H. LEES, J.P.)

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*ALDERMAN BUCHANAN, Vice-Chairman.

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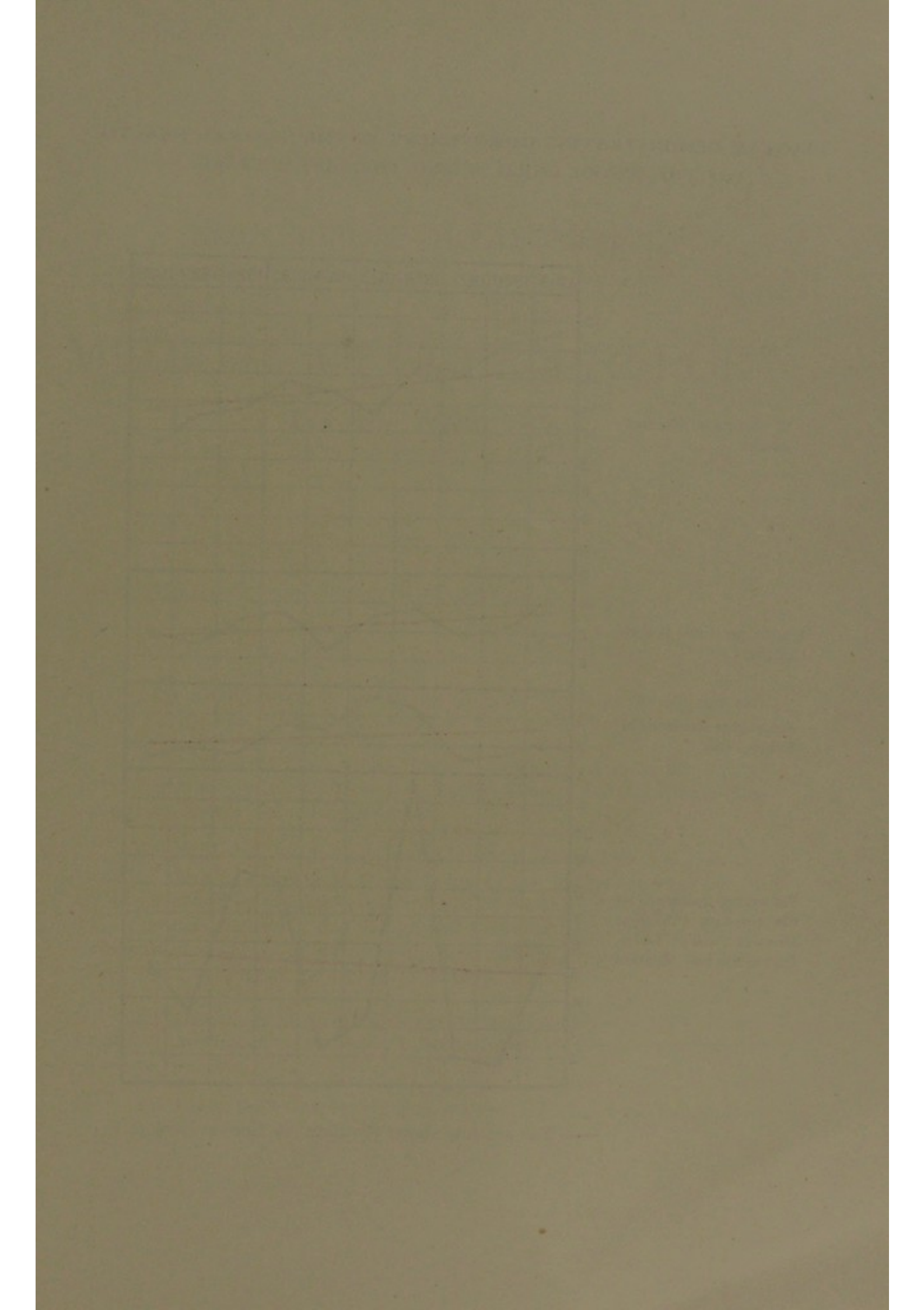
* Members of the Special Services Sub-Committee.

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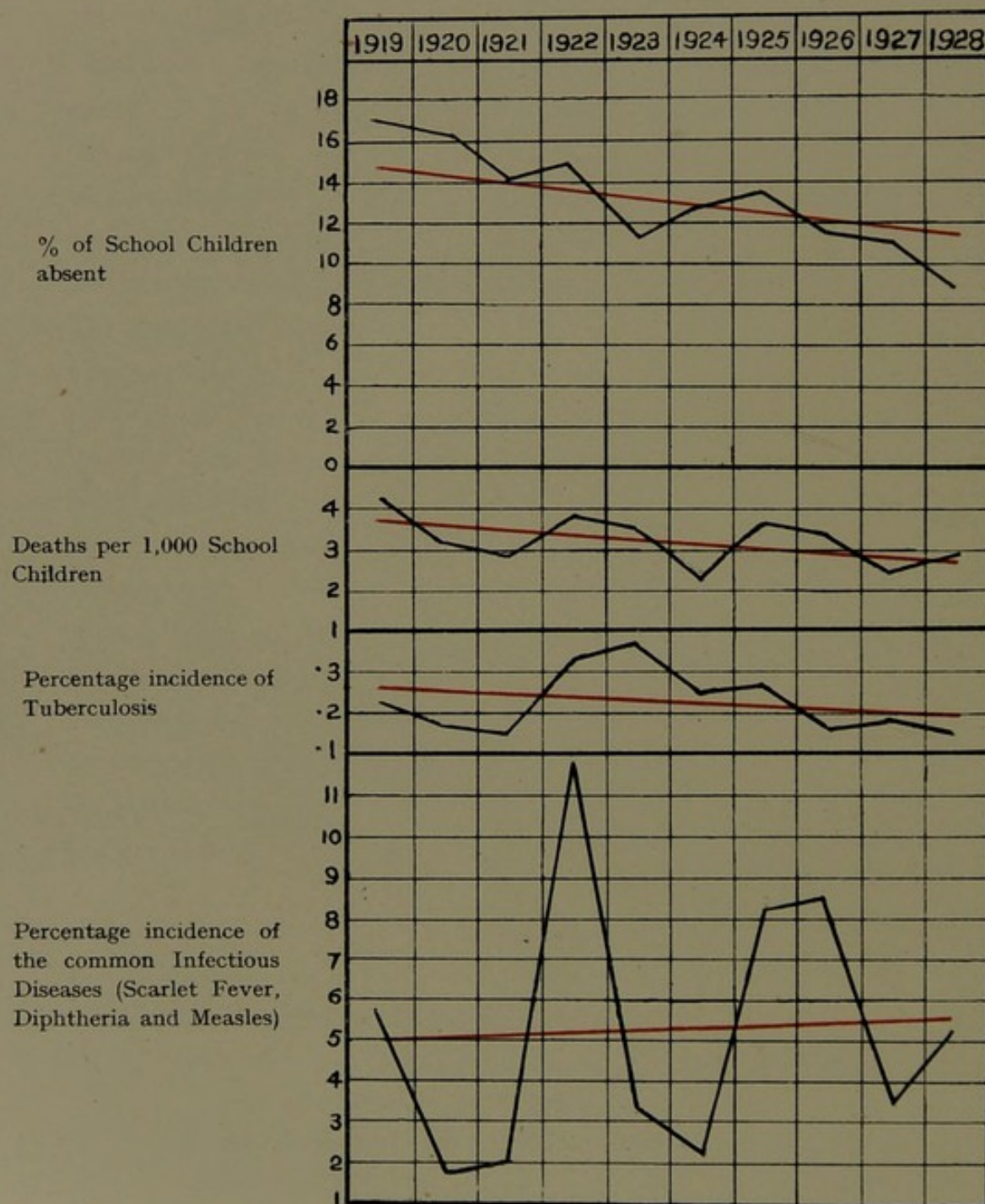
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**DIAGRAM DEMONSTRATING IMPROVEMENT IN THE GENERAL HEALTH
OF THE SCHOOL CHILD DURING THE LAST 10 YEARS.**



— The red line shews the mean decline or increase.

COUNTY BOROUGH OF BURNLEY.

EDUCATION DEPARTMENT.

MEDICAL OFFICER'S REPORT

For the Year 1928.

TO THE CHAIRMAN OF THE EDUCATION COMMITTEE.

SIR,

I have the honour to present my Annual Report as School Medical Officer for the year ending 31st December, 1928.

If we compare certain figures relating to children of school age for the last 10 years the general health of the school children in Burnley during 1928 appears to show a decided improvement.

The chief disease affecting general health is tuberculosis, and from the fact that there is a decline in the incidence of this disease amongst school children as shown by the notifications received by the Medical Officer of Health, we are justified in saying that the general health of the children shews an improvement. This is supported by the fact that the absentee rate is down, giving the lowest figure for the last 10 years.

The chart opposite shows that the gradual diminution of the absentee rate for the last 10 years is not due to a decline in the incidence of the commoner infectious diseases.

The Death Rate and the Tuberculosis rate also show a gradual diminution.

At the School Clinic the work increases, but this does not appear to indicate that the ailments dealt with there are on the increase, but rather that more use is being made of that Institution.

There still remains a large number of indifferent parents. This is shown in the figures relating to the Dental Clinic and also those relating to the Eye Clinic. An increasing amount of work, however, is being carried out by the Dentist, but full benefit from his services is not possible owing to the very inadequate premises in which he has to work. If the premises were suitable it is certain that more could be done and also that more parents would avail themselves of his services, and thus lessen the percentage of parents labelled "indifferent."

There has been a full year's work at the Orthopædic Clinic and the figures relating to this are given in the Report.

At the Open Air School the attendance still remains good. An average attendance of over 90% must be considered extremely satisfactory.

Owing to the outbreak of smallpox it was not possible to use Crown Point Isolation for the reception of school children suffering from "closed" pulmonary tuberculosis, but arrangements are now being made for it to be reopened for that purpose during the coming summer.

I have to thank the Special Services Sub-Committee for their sympathetic consideration of the matters I have had to bring before them, and also to thank all the members of my staff, both professional and clerical, for their great assistance both in carrying out the work and in preparing this report.

I am, Sir,

Your obedient servant,

THOMAS HOLT,

School Medical Officer.

Health Department,
St. James's Street,
April, 1929.

GENERAL INFORMATION.

SCHOLARS.

Number of scholars on roll on the 31st December, 1928, 13,184.
Average attendance during year, 12,002.

TEACHERS.

Men, 83 ; Women, 296 ; Total, 379.

SCHOOLS.

Elementary.

| | | | | |
|--|-----|-----|-----|----|
| Number of Council Schools | ... | ... | ... | 15 |
| Number of Non-Provided Schools | ... | ... | ... | 13 |
| Number of Departments in charge of Head Teacher:— | | | | |
| Mixed only | ... | ... | ... | 17 |
| Boys only | ... | ... | ... | 2 |
| Girls only | ... | ... | ... | 2 |
| Mixed and Infants | ... | ... | ... | 6 |
| Infants only | ... | ... | ... | 20 |

Secondary.

The Grammar School for Boys.
The High School for Girls.

Special Schools 5

School for the Blind and partially blind, School for the Deaf, the Open Air School and 2 Schools for the Mentally Defective children.

SCHOOL CLINIC.

This is situate at the Old Technical School in Elizabeth Street. Children can here obtain treatment for minor ailments, dental treatment, the correction of errors of refraction, X-ray treatment for ringworm, and orthopædic after-care. The total number of attendances at the various Clinics was 33,786.

The School Clinic was open on 287 days.

1841

REPORT.

STAFF.

The Staff consists of:—

- The Medical Officer of Health, who is the School Medical Officer ;
- The Deputy Medical Officer of Health and Tuberculosis Officer, who acts as Assistant School Medical Officer ;
- Two Assistant Medical Officers of Health (ladies), who act as Assistant School Medical Officers ;
- One Ophthalmic Surgeon (part time) ;
- One whole-time dentist.
- Three Health Visitors acting as School Nurses ; and
- Four Clerks.

CO-ORDINATION WITH OTHER HEALTH SERVICES.

The co-ordination of the School Medical Service with the Public Health and Maternity and Child Welfare Services is assured by the fact that the Medical Officer of Health is the School Medical Officer, and every member of the staff engaged on school medical work is a member also of the Public Health and Maternity and Child Welfare Department.

The records kept by the Health Visitors of children from birth to the age of 5 years are passed to the School Clinic when these children enter school. They are filed together with the records made during their school life. In this way a fairly complete history of each child from birth can be obtained at any time. These records ultimately consist of a Health Visitor's record card, a school medical inspection card, a note of any notifiable infectious disease from which the child may have suffered, a dental record, an ophthalmic record if such has been necessary, and a record of any treatment for a minor ailment at the School Clinic.

THE SCHOOL MEDICAL SERVICE IN RELATION TO THE PUBLIC ELEMENTARY SCHOOLS.

School Hygiene.—There are 9 schools of fairly modern construction and built by the Local Authority. The rest of the schools, 19 in number, are either rented by the Authority or are "non-provided."

The lighting of the older buildings in some cases is not altogether satisfactory. The heating in all cases is satisfactory. The sanitary arrangements, with one or two exceptions previously noted, are satisfactory.

Sanitary Supervision.

During the year 430 visits have been paid by members of the Sanitary Staff to the Schools. 22 defects were noted, 4 of which existed at the beginning of the year. 24 of these were remedied, leaving 2 still to be dealt with.

MEDICAL INSPECTION AT THE SCHOOLS.

Three groups of school children have been examined in accordance with the Board of Education (Special Services) Regulations, which provides for the medical inspection of all children in public elementary schools as soon as possible in the twelve months following

- (a) their first admission ;
- (b) their attaining the age of 8 years ; and
- (c) their attaining the age of 12 years.

Each school has been visited once for this purpose.

Head teachers are given notice at every routine examination that they may submit any special cases not falling in the above code groups, which they desire the Medical Officer to see.

All children in the code groups and special cases who have a defect requiring treatment or are to be kept under observation, are re-examined at the schools after a suitable interval has elapsed.

The following table shews the number of children inspected under the various groups during the year, with a comparison for 1927.

Code Groups.

| | | | | Total | | Total | |
|---------------|-----|------|-------|-------|-------|-------|--|
| Entrants: | | Boys | Girls | 1928 | | 1927 | |
| Age 3 years | ... | 12 | 18 | 30 | ..... | 21 | |
| " 4 | " | 156 | 130 | 286 | ..... | 286 | |
| " 5 | " | 464 | 536 | 1000 | ..... | 938 | |
| " 6 | " | 143 | 152 | 295 | ..... | 226 | |
| " 7 | " | 38 | 48 | 86 | ..... | 75 | |
| | | 813 | 884 | 1697 | ..... | 1546 | |
| | | — | — | — | | — | |
| Intermediate: | | Boys | Girls | Total | | Total | |
| | | | | 1928 | | 1927 | |
| Age 8 years | ... | 633 | 685 | 1318 | ..... | 759 | |
| " 9 | " | 120 | 116 | 236 | ..... | 75 | |
| | | 753 | 801 | 1554 | ..... | 834 | |
| | | — | — | — | | — | |

| | | | | Total | |
|---------------------------|------|-------|-----|-------|------|
| Leavers: | | | | 1928 | 1927 |
| Age 12 years ... | Boys | Girls | | | |
| | 471 | 445 | ... | 916 | 999 |
| „ 13 „ ... | 135 | 125 | ... | 260 | 148 |
| „ 14 „ ... | 1 | | ... | 1 | — |
| | | | | — | — |
| | 607 | 570 | ... | 1177 | 1141 |
| | | | | — | — |
| Others ... | 38 | 33 | ... | 71 | 66 |
| | | | | — | — |
| Total Routine Inspections | 2211 | 2288 | ... | 4499 | 3593 |
| | | | | — | — |

Other Inspections.

| | | | | | |
|-----------------------------|-----|-----|-----|------|------|
| No. of Special Inspections: | | | | 1928 | 1927 |
| At Schools ... | ... | ... | ... | 329 | 280 |
| At School Clinic | ... | ... | ... | 1836 | 1575 |
| | | | | — | — |
| | | | | 2165 | 1855 |
| | | | | — | — |
| No. of Re-Inspections: | | | | | |
| At Schools ... | ... | ... | ... | 5018 | 5044 |
| At School Clinic | ... | ... | ... | 3085 | 2328 |
| | | | | — | — |
| | | | | 8103 | 7372 |
| | | | | — | — |

Details of the numbers examined at the various Schools appear in the Appendix.

Visits of the Medical Officer.

Appended below is the number of visits paid to the Elementary Schools.

| | | | |
|--------------------------------|---------------|---------------|-----|
| For Routine Medical Inspection | Morning 103 ; | Afternoon 72— | 175 |
| For " Following up " Defects | „ 67 ; | „ 8— | 75 |
| | | | — |
| | | | 250 |
| | | | — |

REVIEW OF THE FACTS DISCLOSED BY MEDICAL INSPECTION.

Routine Inspection.

The following is a summary of the defects found in 1928 compared with the previous year:—

| | | 1928 | | 1927 | |
|----|---|------|------|------|------|
| | | No. | % | No. | % |
| 1. | Total Number of children inspected at routine inspection | 4499 | — | 3593 | — |
| 2. | Number of children suffering from | | | | |
| | Malnutrition | 2 | — | — | — |
| | Uncleanliness | 651 | 14.5 | 321 | 8.9 |
| | Skin Disease | 107 | 2.4 | 99 | 2.8 |
| | External Eye Disease | 48 | 1.1 | 50 | 1.4 |
| | Defective Vision (including Squint) | 543 | 12.1 | 444 | 12.4 |
| | Ear Disease | 26 | 0.6 | 67 | 1.9 |
| | Nose and Throat Disease | 484 | 10.8 | 429 | 11.9 |
| | Enlarged Glands | 437 | 9.8 | 222 | 6.2 |
| | Defective Speech | 4 | — | 1 | — |
| | Defective Teeth | 1088 | 24.2 | 651 | 18.1 |
| | Heart Disease | 98 | 2.2 | 86 | 2.4 |
| | Anæmia | 135 | 3.0 | 96 | 2.7 |
| | Lung Disease (Non-T.B.) | 95 | 2.1 | 119 | 3.3 |
| | Tuberculosis: | | | | |
| | Pulmonary Definite | 1 | — | 1 | — |
| | „ Suspected | 7 | 0.2 | 8 | 0.2 |
| | Non-Pulmonary | 3 | — | 1 | — |
| | Diseases of Nervous System | 31 | 0.7 | 21 | 0.6 |
| | Deformities | 195 | 4.3 | 100 | 2.8 |
| | Other Defects and Diseases | 386 | 8.6 | 265 | 7.4 |

The percentage of children found to require treatment, excluding uncleanliness and dental disease, was 31.6 in the Entrants Group, 38.0 in the Intermediate Group, and 35.6 in the Leavers' Group; the percentage for the total code groups being 34.9, a decrease of 4% on last year's figure.

A detailed list of the defects found at routine inspection appears in the Appendix to the report.

Uncleanliness.—As compared with 1927, the percentage of children who were unclean at routine inspection is higher—14·5 as against 8·9.

Of the 651 children, 537 had unclean heads, chiefly nits, and 114 were noted to have dirty bodies. At the special inspections 29 were noted as being unclean.

The routine cleanliness surveys by the School Nurse are a better guide as to the conditions obtaining in the various schools. During the year 26 visits were paid to 26 of the schools, and 7,735 children were inspected. In 231 instances the Nurse found vermin and advised exclusion of the children from school. On the basis of these inspections 3% of the children seen shewed evidence of infestation, as against 4·5% in 1927. In addition 1,096 children were found with nits only.

Minor Ailments.—Under this heading are included Skin Diseases, External Eye Diseases, etc. The figures are 3·6% as compared with 4·2% in 1927. These diseases are referred to under their respective headings.

Nose and Throat Defects.—Unhealthy conditions of the Nose and Throat were recorded in 484 or 10·8% of the children examined at routine inspections: a decrease of 1% on the 1927 figures. Included are 382 where the tonsils were enlarged (8·5%) and 61 where adenoids were present. Both conditions were found in 16 cases only. There were 25 other conditions.

At the special examinations 185 Nose and Throat Defects were noted. These included 74 cases of enlarged tonsils 29 of adenoids, and 24 with enlarged tonsils and adenoids.

Tuberculosis.—1 case of definite Pulmonary Tuberculosis was discovered at the Routine Inspection, and 7 and 1 suspected cases were found at routine and special inspections respectively. Practically the whole of these were referred to the Tuberculosis Officer. A few, however, were kept under observation by the Inspecting Officer.

Other forms of Tuberculosis found were:—Glands 1, Knee 2, and other bones and Joints 1. One of the cases was found at special inspection.

Skin Disease.—At the routine examinations 107 cases of skin disease, including ringworm, were discovered, the percentage being 2·4 as compared with 2·8 last year.

The diseases noted were:—Ringworm 15, Scabies 1, Impetigo 32, Alopecia 14, Seborrhœa 22, Eczema 3, Intertrigo 5, Dermatitis 4, Urticaria 8, Erythema 1, and Sclero Derma 2.

At special examinations 442 skin affections were revealed. These included 119 cases of Ringworm (Head 37, Body 82), 10 cases of Scabies, 235 with Impetigo and other conditions 78.

External Eye Diseases.—48 cases of inflammatory conditions of the external eye were noted at routine inspections and 136 cases at special examinations. All were referred for treatment. The cases included Blepharitis 62, Conjunctivitis 56, Corneal Ulcers 7, Corneal Opacities 1, other conditions 58.

Defective Vision.—The routine test of vision is carried out in respect of the Intermediates and Leavers. The test is also applied to the Entrants when defective vision is suspected.

With respect to routine inspections, 502 children were found with defective vision, the percentage being 18·5 in the Intermediate Group (aged 8 and 9) and 16·7 in the Leavers. With the exception of 145 cases, all the 502 cases were referred to the oculist. The rest were kept under observation. In addition there were 151 children noted with defective vision who were wearing suitable glasses: 12 Entrants, 45 Intermediates, 90 Leavers and 4 not coming in the above code groups.

There were also 213 cases of Defective Vision noted at special examinations, 194 of which were referred for treatment. The remaining 19 were kept under observation.

Squint.—41 cases of Squint were found at routine inspections and 17 amongst the special cases. With the exception of 12, all were referred for treatment.

Ear Disease and Hearing.—At routine inspection 4 children were found to be suffering from defective hearing and 22 from other conditions, i.e., Otorrhœa 15, and 7 with "wax in ears."

At the special examinations 115 cases were discovered, 17 being Defective Hearing; the others were chiefly Otorrhœa and "wax in ears."

Dental Defects.—As usual, a large number of children, 1,088 or 24·2%, were found to have dental defects at routine inspection. 1,024 of these were referred for treatment. 76 were also noted at special examinations, all of whom were referred for treatment.

Routine inspection by the Medical Officer does not give an accurate return of the prevalence of dental caries amongst school children. This is more fully shewn in the section dealing with dental treatment on page 25.

Deformities and Crippling Defects.—At routine inspection 30 children were noted as suffering from Rickets, 9 Spinal Curvature and 156 other deformities. Amongst these were 4 Torticollis, Deformed Chest 16, Infantile Paralysis 2, Flat Foot 3, Round Shoulders 93. There were 25 defects amongst special cases : 8 Rickets, 1 Spinal Curvature, and 16 other forms.

In December, 1927, the Local Authority's scheme for Orthopædic treatment and after-care was commenced. Particulars of the scheme, and the work done during the year are given on page 20.

Clothing and Footgear.—The examining Medical Officer at routine inspections noted that in 45 instances children were insufficiently clad or their footgear was defective. There was also 9 at the special examinations.

Height and Weight.—The following table shews the averages compared with 1927 of the children examined at routine inspection.

Average Height and Weight of Children Age 5 Years.

| | Boys | | Boys | | Girls | | Girls | |
|--------------------------------|------|-----|------|-----|-------|-----|-------|-----|
| | 1927 | | 1928 | | 1927 | | 1928 | |
| Number Inspected | 464 | ... | 464 | ... | 474 | ... | 536 | ... |
| Average Height in inches | 42.5 | ... | 41.1 | ... | 41.9 | ... | 40.6 | ... |
| Average Weight in pounds ... | 41.6 | ... | 38.3 | ... | 40.2 | ... | 36.8 | ... |

Average Height and Weight of Children Age 8 Years.

| | Boys | | Boys | | Girls | | Girls | |
|--------------------------------|------|-----|------|-----|-------|-----|-------|-----|
| | 1927 | | 1928 | | 1927 | | 1928 | |
| Number Inspected | 379 | ... | 633 | ... | 380 | ... | 685 | ... |
| Average Height in inches | 49.2 | ... | 47.7 | ... | 48.1 | ... | 47.8 | ... |
| Average Weight in pounds ... | 55.2 | ... | 51.6 | ... | 51.8 | ... | 50.5 | ... |

Average Height and Weight of Children Age 12 Years.

| | Boys | | Boys | | Girls | | Girls | |
|--------------------------------|------|-----|------|-----|-------|-----|-------|-----|
| | 1927 | | 1928 | | 1927 | | 1928 | |
| Number Inspected | 495 | ... | 471 | ... | 504 | ... | 445 | ... |
| Average Height in inches | 57.1 | ... | 54.6 | ... | 57.0 | ... | 54.9 | ... |
| Average Weight in pounds ... | 76.0 | ... | 71.2 | ... | 75.8 | ... | 71.8 | ... |

THE INSPECTION CLINIC.

Inspection Clinics are held at the School Clinic on Tuesday, Thursday and on Saturday morning.

At this Clinic all absentees, not certified by private medical practitioners as unfit to attend school, are sent by the Attendance Officers; also a number are sent by the teachers when they want advice as to the condition of the child which does not allow of waiting until the Medical Officer next visits the school.

In this way practically the whole of the children who are suffering from any ailment are kept under constant supervision ; in many cases the private medical practitioner refers children to the Clinic.

During the year 1,840 children attended the Inspection Clinic.

1,256 of the inspected children had defects of a trifling nature that exclusion from school was not necessary, but in 584 cases certificates of exclusion from school for varying periods were granted. The defects of the children who were excluded from school are given below:—

| | | | |
|------------------------------------|-----|-------------------------------------|-----|
| Defective Teeth | 10 | Nervous Diseases | 19 |
| Uncleanliness | 24 | Affections of the Urinary System... | 1 |
| Ringworm | 65 | Minor Intestinal Parasites ... | 6 |
| Impetigo | 125 | Rheumatism | 10 |
| Scabies | 10 | Alveolar Abscess | — |
| Other Skin Diseases | 23 | Debility | 88 |
| Eye Defects | 32 | Minor Intestinal Complaints ... | 18 |
| Ear Defects... .. | 11 | Minor Ailments and Injuries ... | 66 |
| Nose and Throat Diseases ... | 59 | Infectious Diseases | 22 |
| Enl. Cervical Glands (Non-T.B.)... | 14 | Influenza | 12 |
| Heart Disease | 7 | Not yet diagnosed | 25 |
| Anæmia | 38 | Hernia | 1 |
| Respiratory Diseases | 51 | | |
| Non-Pulmonary Tuberculosis ... | 2 | | |
| Deformities | 4 | | |
| Deaf and Dumb | 1 | Total | 744 |

All the children who were excluded were referred for treatment and 249 of them received their treatment under the Authority's scheme. The rest were kept under observation and received their treatment otherwise. In 153 cases children were recommended to consult their own medical man.

The total number of attendances at the Inspection Clinic was 3,920.

“ FOLLOWING UP.”

When the Medical Officer finds a child suffering from some defect which requires attention, the parent, if present, is informed. If the parent is not present a written notice of the defect is made out, and is passed to the Head Teacher to send to the parent. If this notice does not have the desired effect the School Nurse is instructed to interview the parent and urge the necessity for securing appropriate treatment with instructions in all cases as to how such

treatment may be secured. Where treatment may be obtained under the Authority's scheme the parents are informed. All children having been noted as suffering from a defect by the Medical Officer are kept on that officer's list for so long as they are considered to require either treatment or observation. When neither of these are required the child is struck off the list. Children on the "defect list" are seen by the Medical Officer at every visit to the school, and as a result of these re-inspections by the Medical Officer, further visits by the School Nurse may be made.

The following shews the amount of work done.

No. of visits by the Medical Officer to schools:—

For re-inspection (i.e. to see children on defect list):

Morning 67, Afternoon 8—75.

Visits by the Nurse to schools in connection with Medical Inspection:—

Morning 100, Afternoon 80—180.

Visits by the Nurse to homes on account of

| | |
|-------------------------|------|
| Dental Defects | 3120 |
| Defective Vision | 934 |
| Other Defects | 897 |

INFECTIOUS DISEASE.

Review of the action taken to detect and prevent the spread of Infectious Disease.

The School Medical Officer receives as Medical Officer of Health, notification of all cases of the notifiable Infectious Diseases occurring in the Borough and the necessary exclusion certificates under Article 53(b) of the code are forwarded to the School Attendance Department. A list of houses where there are cases of Infectious Disease is also sent daily to this Department.

The legally notifiable diseases amongst school children notified to the Medical Officer of Health were as follows:—

| Disease. | No. of Notifications. | Deaths. |
|---|-----------------------|---------|
| Smallpox | 76 | — |
| Scarlet Fever... .. | 100 | — |
| Diphtheria and Membranous Croup | 52 | 5 |
| Pulmonary Tuberculosis | 6 | 1 |
| Other forms of Tuberculosis | 13 | 4 |
| Measles | 525 | 2 |
| Primary and Influenzal Pneumonia | 40 | — |
| Enteric Fever | 1 | 1 |
| Erysipelas | 2 | — |

With the exception of Tuberculosis, all cases notified by medical practitioners are visited by the Infectious Diseases Inspector. The cases of Tuberculosis are visited by the Tuberculosis Nurse.

Head Teachers are requested to inform the School Medical Officer of any case of sickness amongst school children coming to their notice. During the year notifications were received in respect of 6 cases of Whooping Cough, 28 Chickenpox, 3 Mumps, 14 Influenza, and 14 other diseases.

No schools were closed by order of the Medical Officer of Health during the year, nor was it found necessary to issue any certificate of the prevalence of disease amongst the children attending any school in accordance with Article 23(b) of the Code.

MEDICAL TREATMENT.

The Local Authority provides treatment for the following defects.

At the School Clinic:—

Minor Ailments: Daily.

Dental Defects: Monday, Wednesday and Friday, and Saturday morning.

Errors of Refraction: Friday.

Orthopædic: Thursday.

At Victoria Hospital:—

Operative Treatment of Enlarged Tonsils and Adenoids.

Inspection Clinics are also held at the School Clinic by the Assistant Medical Officer on Tuesdays, Thursdays and Saturdays. The cases are either referred to their own doctor in case of children having a regular medical attendant, or are treated at the Clinic by the School Nurse in respect of minor ailments.

The work of the School Clinic is gradually increasing as will be seen by a comparison of the figures with those of previous years.

CLINIC ATTENDANCES.

| Year. | Minor Ailments. | Ophthalmic. | Dental. | Inspection. | Nose and Throat. | Orthopædic. | Total. |
|------------|-----------------|-------------|---------|-------------|------------------|-------------|--------|
| 1923 | 9,947 | 1,034 | 1,412 | 5,164 | — | — | 17,557 |
| 1924 | 10,433 | 1,323 | 2,254 | 4,705 | — | — | 18,715 |
| 1925 | 16,769 | 3,029 | 2,261 | 4,623 | — | — | 26,682 |
| 1926 | 18,570 | 3,583 | 3,156 | 3,900 | — | — | 29,209 |
| 1927 | 18,550 | 3,326 | 3,672 | 4,032 | 209 | 14 | 29,803 |
| 1928 | 20,297 | 3,329 | 4,670 | 4,305 | 721 | 464 | 33,786 |

Charges for Treatment.—The Board of Education require the Local Authority to make a charge for medical treatment where the income of the parents will allow of such charge. The following charges were decided upon:—

(a) For each attendance at the Clinic for treatment of minor ailments, 1d.

(b) For each attendance for Dental Treatment, 6d.

During the year the amount collected was £34 19s. 10d.: £19 19s. 0d. for Dental Treatment and £15 0s. 10d. for minor ailments. The total amount collected on 1927 was £31 10s. 2d.

Minor Ailments.—1,084 cases were treated by the School Nurse. This number includes 122 who were under treatment at the beginning of the year.

The following gives details of the number of cases and their attendances.

| Diseases. | Number of Cases : | | No. of Cases under treatment 1/1/28 | Total No. of cases dealt with. | No. of Attendances. |
|---|----------------------------|------------------------------------|-------------------------------------|--------------------------------|---------------------|
| | Referred Inspection Clinic | Referred School Medical Inspection | | | |
| SKIN:— | | | | | |
| Ringworm: Head | 28 | 8 | 38 | 74 | 6,041 |
| Body | 71 | 4 | 5 | 80 | 1,143 |
| Impetigo | 130 | 2 | 7 | 139 | 1,329 |
| Sore Head | 60 | 1 | 3 | 64 | 738 |
| Other Skin Diseases | 51 | 1 | 15 | 67 | 1,714 |
| EYE:— | | | | | |
| Blepharitis | 29 | 1 | 7 | 37 | 942 |
| Conjunctivitis | 40 | 4 | 8 | 52 | 1,207 |
| Iritis | 1 | — | — | 1 | 24 |
| Corneal Ulcer | 4 | 1 | 2 | 7 | 97 |
| Other Eye Conditions | 30 | 3 | — | 33 | 451 |
| EAR:— | | | | | |
| Other Ear Diseases | 77 | 16 | 19 | 112 | 1,851 |
| MISCELLANEOUS, e.g., Minor Injuries, Bruises, Sores, etc. | 390 | 10 | 18 | 418 | 4,760 |
| | 911 | 51 | 122 | 1,084 | 20,297 |
| | 962 | | | | |

In 1927 the Nurses dealt with 1,081 cases.

In addition to the minor ailments dealt with at this Clinic, it was ascertained that 372 cases were treated otherwise. These were

| | | | | |
|---------------------|-----|-----|-----|-----|
| Ringworm: Scalp | ... | ... | ... | 8 |
| Body | ... | ... | ... | 7 |
| Scabies | ... | ... | ... | 12 |
| Impetigo | ... | ... | ... | 45 |
| Other Skin Diseases | ... | ... | ... | 50 |
| Minor Eye Defects | ... | ... | ... | 38 |
| Minor Ear Defects | ... | ... | ... | 43 |
| Miscellaneous | ... | ... | ... | 169 |
| | | | | — |
| | | | | 372 |
| | | | | — |

Enlarged Tonsils and Adenoids.—The Local Authority in May, 1927, inaugurated a scheme for the operative treatment of enlarged tonsils and adenoids. Dr. Snowball, the rhinologist of the Victoria Hospital, entered into an agreement to deal with these cases sent to him by the School Medical Officer, and the Victoria Hospital authorities agreed to afford him facilities to carry out treatment at the Hospital. The Victoria Hospital also deals with cases apart from the above scheme.

INSPECTION.—During the year the Specialist Medical Officer examined 219 cases.

173 were advised operative treatment.

35 were advised other forms of treatment.

6 were not advised treatment.

5 were deferred.

TREATMENT.—174 received treatment under the Authority's Scheme during the year—148 operative, and 26 other forms of treatment.

The total number of attendances at the Nose and Throat Clinic was 721, 455 being for treatment.

In addition, it was ascertained that 163 children had treatment apart from the Authority's Scheme, 28 of whom had operative treatment.

Orthopædic Treatment and Aftercare.—The scheme commenced on the 8th December, 1927. Children requiring Orthopædic treatment are referred by the School Medical Officer to the Specialist Officer, who attends once a month at the School Clinic. Aftercare is undertaken by a specially trained nurse who attends at the School Clinic once a week. Hospital accommodation is available at Ancoats Hospital, Manchester, for those children who require special forms of treatment or operation, and by arrangement with the Lancashire County Council, country hospital treatment is provided at Biddulph Grange Hospital for those who require prolonged treatment; this kind of treatment refers more particularly to cases of spinal curvature.

It is intended that the parents should contribute towards the cost of Hospital treatment and the provision of boots, splints, etc., according to their means.

The following are particulars of the work in connection with the Orthopædic Scheme during the year.

Sessions.—55 sessions have been held: 11 by the Orthopædic Surgeon and 44 by the Orthopædic Nurse.

Cases.—The Orthopædic Surgeon examined 78 cases referred to him. In 10 cases the diagnosis was in doubt. The remaining 68 were diagnosed as follows:—

| | School Clinic. | Referred from | | | | Total. |
|-------------------------------|-------------------|--------------------------|-----------------------------|-----|-----|--------|
| | | Child Welfare Clinic. | Tuberculosis Dispensary. | | | |
| Rickets | 11 | 10 | — | ... | ... | 21 |
| Genu Varum | 5 | 1 | — | ... | ... | 6 |
| Genu Valgum | 8 | — | — | ... | ... | 8 |
| Poliomyelitis | 2 | — | — | ... | ... | 2 |
| Osteomyelitis | 1 | — | 1 | ... | ... | 2 |
| Congenital deformity of feet | 1 | — | — | ... | ... | 1 |
| Congenital club foot | 1 | 1 | — | ... | ... | 2 |
| Hemiplegia | 1 | — | — | ... | ... | 1 |
| Torticollis | 3 | — | — | ... | ... | 3 |
| Old scoliosis | 1 | — | — | ... | ... | 1 |
| Pseudo Coxalgia | 2 | — | — | ... | ... | 2 |
| Old infantile paralysis ... | 3 | 1 | — | ... | ... | 4 |
| Flat feet | 1 | — | — | ... | ... | 1 |
| Old fracture of left elbow... | 1 | — | — | ... | ... | 1 |
| TUBERCULOSIS—Ankle ... | — | — | 1 | ... | ... | 1 |
| Knee ... | — | — | 4 | ... | ... | 4 |
| Spine ... | — | — | 1 | ... | ... | 1 |
| Hip | — | — | 1 | ... | ... | 1 |
| Arthritis ... | — | — | 2 | ... | ... | 2 |

| | | School Clinic. | Referred from | | | | Total. |
|------------------------|--------|-------------------|--------------------------|-----------------------------|-----|----|--------|
| | | | Child Welfare Clinic. | Tuberculosis Dispensary. | | | |
| Multiple T.B. Lesions | ... | — | ... | — | ... | 1 | 1 |
| Pott's disease | ... .. | — | ... | — | ... | 1 | 1 |
| Spinal caries | ... .. | 1 | ... | — | ... | — | 1 |
| Septic arthritis elbow | ... | 1 | ... | — | ... | — | 1 |
| | | — | — | — | — | — | — |
| Totals | ... .. | 43 | ... | 13 | ... | 12 | 68 |
| | | — | — | — | — | — | — |

In addition 6 cases seen in 1927 were re-examined.

Treatment recommended.—In 25 instances the Orthopædic Surgeon recommended admission to the Biddulph Orthopædic Hospital. 17 were recommended to Ancoats Hospital, Manchester, for X-ray, 6 for Sunlight Treatment, 1 Sanatorium treatment, 4 for stretchings, 20 for splints, 13 for boots, 2 for back brace, 9 for plasters, and 18 for other forms of treatment.

Attendances.—In connection with the Orthopædic Scheme there were 479 attendances as follows:—

| Referred from | | | | | No. of Attendances at Orthop. Clinic. | Attendances at Ancoats | Total. | | |
|-------------------------|-----|-----|-----|-----|--|------------------------------|--------|-----|-----|
| School Clinic | ... | ... | ... | ... | 331 | ... | 10 | ... | 341 |
| Tuberculosis Dispensary | ... | ... | ... | ... | 97 | ... | 4 | ... | 101 |
| Child Welfare Clinics | ... | ... | ... | ... | 35 | ... | 1 | ... | 36 |
| Pensions Committee | ... | ... | ... | ... | 1 | ... | — | ... | 1 |
| | | | | | — | | — | | — |
| Totals | ... | ... | ... | ... | 464 | ... | 15 | ... | 479 |
| | | | | | — | | — | | — |

168 examinations were carried out by the Orthopædic Surgeon and 296 examinations by the Nurse.

Treatment.

BIDDULPH GRANGE ORTHOPÆDIC HOSPITAL.—13 of the 25 cases recommended to this Hospital were admitted during the year as follows:—

| | | | | |
|-------------------------------|-----|-----|-----|---|
| Congenital dislocation of hip | ... | ... | ... | 2 |
| Rickets | ... | ... | ... | 4 |
| Torticollis | ... | ... | ... | 2 |
| Hemiplegia | ... | ... | ... | 1 |
| Pseudo coxalgia | ... | ... | ... | 1 |
| Genu valgum | ... | ... | ... | 2 |

In the remaining case the diagnosis was in doubt.

With reference to the 12 remaining cases recommended for Hospital treatment, 3 of the parents were indifferent and 9 are still on the waiting list.

X-RAY.—Of the 17 recommended to attend for X-Ray, with one exception, all had the X-Ray examination done either at Ancoats Hospital or at the Burnley Clinic.

SUNLIGHT TREATMENT.—Of the 6 cases recommended, 4 have had treatment at Bank Hall Hospital, and 2 at the Primrose Bank Institution.

PROVISION OF BOOTS, SPLINTS, ETC.—The following were supplied by the Local Education Authority:—

- 1 Back support with groin straps.
- 10 Calipers.
- 4 Boots tubed, inside T straps and valgus wedges.
- 1 Boots tubed and inside T straps.
- 1 Boots tubed and raised $\frac{3}{4}$ " with cork.
- 1 Boots for repairs and valgus wedges.
- 1 Metatarsal bars to boots.
- 1 Boots to be raised.
- 1 Hard knee shield.
- 3 Calipers for repair.

Tuberculosis.—Definite and suspected cases of the Pulmonary type in school children are referred to the Tuberculosis Officer at the Dispensary, and, if necessary, receive treatment there, though a few find their way to outside institutions.

Owing to the continued prevalence of Smallpox it was not possible to use Crown Point Hospital for the reception during the summer months for cases of "closed" pulmonary and non-pulmonary tuberculosis in school children.

Non-Pulmonary Tuberculosis.—Arrangements have been made, with the approval of the Ministry of Health, for a radiologist to undertake the treatment by X-ray of cases of Tuberculosis of the Skin and Glands.

14 school children were treated by him during the year: 9 cases of Lupus, and 5 with Tuberculous Glands.

Skin Diseases.—The majority of cases of Skin Diseases occurring amongst school children were dealt with at the Minor Ailments Clinic. Further particulars are given on page 19.

External Eye Disease.—Most of these defects are also dealt with at the Minor Ailments Clinic. Particulars are to be found on page 19.

Vision.—The authority employs an Ophthalmic Surgeon to carry out refraction work at the Ophthalmic Clinic. He devotes one day per week (Friday) to this duty.

A course of Atropine drops is given by the School Nurse prior to the Ophthalmic Surgeon's examination. 1,758 attendances were made at the Clinic on this account.

864 new cases of defective Vision were enquired into last year. 522 of these attended the Ophthalmic Clinic for examination, and 422 children were given prescriptions. In 100 cases the Ophthalmic Surgeon did not advise glasses.

Parents are advised, after having obtained glasses, to present their children again at the Clinic to see if the glasses are according to the prescriptions issued. 404 children (9 children were secondary pupils) were seen on this account during the year.

In addition to the new cases dealt with above, 269 children were re-examined by the Ophthalmic Surgeon at a later date to see if the glasses obtained previously were still suitable. As a result 102 children were given re-prescriptions.

The total number of attendances made by the children at the Ophthalmic Clinic, including the 1,758 for atropine drops already referred to, was 3,329.

As a result of "following up" these cases not attending the Ophthalmic Clinic the School Nurse obtained the following information:—

| | | | |
|--|-----|-----|-----|
| - Not advised glasses by own Doctor | ... | ... | 3 |
| Obtained prescriptions from own doctor or optician | | | 28 |
| Promised to see own doctor or optician | | ... | 12 |
| Parents indifferent | ... | ... | 263 |
| Left school or not traced | ... | ... | 17 |
| Cases being still followed up at the end of the year | | | 19 |

It will be noted that in 263 instances, the parents were indifferent.

The number of children who actually obtained glasses during the year was 450. Of these 294 were got through the Local Education Authority, in accordance with an arrangement with a local optician.

Dental Defects.—A whole-time dentist is employed. He holds 8 sessions each week for treatment and 2 sessions weekly at the schools for routine dental inspection.

The scheme which commenced in 1922 provides for the primary inspection of children aged 6 years and for their re-inspection yearly throughout school life. Parents of children are notified of any defect requiring treatment and are advised to consult their own dentist, or, if they so desire, to send the children to the School Dental Clinic.

Inspection.—75 half-days were devoted to inspection during the year. Inspection and re-inspection was confined to elementary school children of age groups 6 to 12 years inclusive, together with a few aged 13 years. 7,906 were examined and 6,601 or 83·5% had defective teeth as against 83·9% in 1927.

The following gives the number of children examined in each age group, together with the number with defective teeth.

| Age Group | Total | Number Inspected | | Not requiring Treatment | | Number with defects requiring Treatment | |
|-------------|-------|------------------|-------|-------------------------|-------|---|-------|
| | | Boys | Girls | Boys | Girls | Boys | Girls |
| 6 Years ... | 1362 | 675 | 687 | 72 | 80 | 603 | 607 |
| 7 „ ... | 1447 | 724 | 723 | 90 | 80 | 634 | 643 |
| 8 „ ... | 1677 | 807 | 870 | 107 | 100 | 700 | 770 |
| 9 „ ... | 627 | 312 | 315 | 54 | 50 | 258 | 265 |
| 10 „ ... | 942 | 481 | 461 | 115 | 86 | 366 | 375 |
| 11 „ ... | 993 | 530 | 463 | 161 | 119 | 369 | 344 |
| 12 „ ... | 796 | 435 | 361 | 104 | 75 | 331 | 286 |
| 13 „ ... | 61 | 38 | 23 | 7 | 5 | 31 | 18 |
| 14 „ ... | 1 | 1 | — | — | — | 1 | — |
| Total ... | 7906 | 4003 | 3903 | 710 | 595 | 3293 | 3308 |

In addition to these inspections, 122 children attending the Special Schools were dentally inspected and 90 were found to require dental treatment.

694 special cases were also inspected by the Dentists at the Dental Clinic.

Treatment.—284 treatment sessions were held at the School Clinic, and 3,042 cases were dealt with as against 2,742 in 1927. 612 of the 3,042 were special cases referred by the School Medical Officer or teachers.

The following table gives an account of the work of the School Dental Clinic.

| Attend- ances of Children | Fillings | | Extractions | | Anæsthetics Administered | | Other Operations | | |
|---------------------------------|------------------|----------------|------------------|----------------|-----------------------------|-------|------------------|----------|--------|
| | Perm't. Teeth | Temp. Teeth | Perm't. Teeth | Temp. Teeth | General | Local | Scalings | Dressgs. | T'mts. |
| 3976 | 1540 | 378 | 481 | 5793 | 8 | 6121 | 2 | 127 | 2480 |

“Following up” by the School Nurse.

The parents whose children have not attended the Dental Clinic as the result of having been notified of the need of dental treatment, are “followed up” by the School Nurse.

During the year 7392 children were notified as requiring treatment, and the following gives the after-history of the cases:—

| | | | | |
|--|-----|-----|-----|------|
| Attended School Dental Clinic | ... | ... | ... | 3042 |
| Received treatment from own Dentist | ... | ... | ... | 215 |
| Promised to attend own Dentist | ... | ... | ... | 723 |
| Parents indifferent | ... | ... | ... | 1751 |
| Treatment not advised | ... | ... | ... | 2 |
| Left school or could not be traced | ... | ... | ... | 22 |
| Failed to attend Dental Clinic... | ... | ... | ... | 1323 |
| Remaining to be followed up at the end of the year | ... | ... | ... | 314 |

OPEN-AIR EDUCATION.

School Camps.—A permanent camp is established at Hest Bank, near Morecambe. There is accommodation for 50 children. The place was utilised for 12 weeks and 288 school children were admitted, each for a period of two weeks.

Convalescent Home.—There is, at Lytham St. Annes, a Convalescent Home for the children of Burnley and District, built by the late Sir John Thursby. Accommodation for 12 children of each sex is provided. During the year 242 children were admitted, 161 of these being Burnley school children. Most of the children were sent to the Home under the recommendation and certificate of the Assistant School Medical Officer.

Day Open-air School.—The Local Authority possesses a Day Open-air School which was established in October, 1918.

The school is situate in the grounds of Bank Hall and is built to accommodate 120 children. Approval for this number has been obtained from the Board of Education.

The children for attendance at this school are selected by the Assistant School Medical Officer who is also the Tuberculosis Officer, from those whose attendance at an elementary school is in most cases very irregular on account of their physical condition. This officer also acts as medical officer in charge of the school, which he visits twice weekly.

The routine of the school is as follows:—School opens at 9-0 a.m.; the children have breakfast on arrival. Lessons at 9-30 a.m., dinner at 12-15; rest hour in winter from 1 to 2 o'clock, summer 1 to 3 o'clock; lessons; tea 4-15. In winter the school is dismissed at 4 p.m. and at 5-15 p.m. in summer.

During the year 44 children were admitted for the following reasons:—

| | | | | | |
|--------------------|-----|-----|-----|-----|----|
| Pre-tubercular | ... | ... | ... | ... | 10 |
| Chronic Bronchitis | ... | ... | ... | ... | 7 |
| Anæmia | ... | ... | ... | ... | 9 |
| Neurasthenia | ... | ... | ... | ... | 2 |
| General Debility | ... | ... | ... | ... | 6 |
| Peritonitis | ... | ... | ... | ... | 3 |
| Enlarged Glands | ... | ... | ... | ... | 2 |
| Ch. Pneumonia | ... | ... | ... | ... | 1 |
| Chorea | ... | ... | ... | ... | 4 |
| | | | | | — |
| | | | | | 44 |
| | | | | | — |

In addition, 6 children who were temporarily discharged on account of illness, were re-admitted.

The average number on the roll was 120, and the average attendance was 109.

The School Nurse attends periodically for cleanliness inspection and weekly for the treatment of minor ailments.

47 children were discharged during the year and the following table gives details respecting them.

Discharges from the Open-Air School during the Year 1928.

| Sex | Age on admis. | Length of stay | | Average weight of normal child at similar age. | Weight on admission | Weight on discharge | Gain in weight | Average gain in weight of normal child at that age | Reason for Admission | Reason for Discharge |
|-----|---------------|----------------|------|--|---------------------|---------------------|----------------|--|----------------------|------------------------|
| | years | yrs. | mths | lbs. | lbs. | lbs. | lbs. | lbs. | | |
| F | 9 | 4 | 9 | 55½ | 49 | 82 | 33 | 39 | Pre. T.B. | Age Limit. |
| F | 9 | 4 | 3 | 55½ | 66 | 86 | 20 | 34 | Pre. T.B. | do. |
| M | 7 | 6 | 9 | 50 | 42 | 86 | 44 | 45 | Pre. T.B. | do. |
| M | 7 | 4 | 8 | 50 | 49 | 71½ | 22½ | 25 | Chronic Bronchitis | Restoration of Health. |
| F | 9 | 2 | 4 | 55½ | 54 | 66 | 12 | 15 | Debility | do. |
| F | 10 | 4 | 0 | 62 | 46 | 63 | 17 | 35 | Debility | Age Limit. |
| F | 8 | 5 | 6 | 52 | 34 | 59½ | 25½ | 40 | Chorea | do. |
| F | 8 | 5 | 6 | 52 | 46 | 84½ | 38½ | 40 | Debility | do. |
| M | 9 | 2 | 7 | 60 | 46 | 56½ | 10½ | 14 | Tabes | |
| F | 7 | 4 | 8 | 47½ | 42 | 69½ | 27½ | 30 | Mesenterica | Restoration of Health. |
| F | 10 | 1 | 11 | 62 | 51 | 65½ | 14½ | 14½ | Debility | do. |
| M | 7 | 4 | 3 | 50 | 46 | 66½ | 20½ | 23½ | Bronchitis | |
| | | | | | | | | | Heart Dis. | do. |
| | | | | | | | | | Bone | do. |
| | | | | | | | | | Disease | |
| M | 9 | | 8 | 60 | 61 | 68 | 7 | 5 | Pre. T.B. | do. |
| M | 7 | 1 | 8 | 50 | 50 | 58 | 8 | 9 | Bone | do. |
| | | | | | | | | | Disease | |
| M | 6 | 2 | 8 | 44 | 47 | 65 | 18 | 14 | Adenitis | do. |
| F | 8 | 1 | 5 | 52 | 53 | 66 | 13 | 7 | Anæmia | do. |
| F | 7 | 1 | 0 | 47½ | 38½ | 44 | 5½ | 4½ | Adenitis | do. |
| M | 9 | 2 | 3 | 60 | 54½ | 66 | 11½ | 14 | Debility | do. |
| M | 10 | 1 | 8 | 67½ | 50 | 65 | 15 | 9 | Pre. T.B. | do. |
| F | 7 | 5 | 0 | 47½ | 38 | 58 | 20 | 29 | Anæmia | do. |
| F | 9 | 2 | 0 | 55½ | 44 | 53½ | 9½ | 13 | Rickets | do. |
| M | 8 | 3 | 3 | 55 | 46½ | 65½ | 19 | 18 | Pre. T.B. | do. |
| F | 9 | 2 | 7 | 55½ | 53 | 63 | 10 | 17 | Pre. T.B. | do. |
| M | 10 | 2 | 4 | 67½ | 55 | 67 | 12 | 11 | Peritonitis | do. |
| M | 10 | 1 | 8 | 67½ | 62 | 70 | 8 | 8 | Pre. T.B. | do. |
| M | 10 | 2 | 7 | 67½ | 56 | 70½ | 14½ | 13 | Neurotic | do. |
| F | 7 | 6 | 9 | 47½ | 45 | 77½ | 32½ | 43 | Pre. T.B. | Age Limit. |
| F | 9 | 5 | 1 | 55½ | 44 | 69 | 25 | 42 | Pre. T.B. | do. |
| M | 8 | 5 | 3 | 55 | 42 | 63 | 21 | 30 | Pre. T.B. | do. |
| M | 10 | 3 | 6 | 67½ | 47 | 59 | 12 | 20 | Chronic | do. |
| | | | | | | | | | Bronchitis | |
| M | 7 | 3 | 8 | 50 | 50 | 67 | 17 | 21 | Pre. T.B. | Restoration of Health. |
| M | 8 | | 11 | 55 | 48 | 55 | 7 | 5½ | Chronic | do. |
| | | | | | | | | | Bronchitis | |
| M | 9 | | 11 | 60 | 48 | 56 | 8 | 7 | General | do. |
| | | | | | | | | | Debility | |
| M | 7 | 1 | 3 | 50 | 34 | 41 | 7 | 7 | Pre. T.B. | do. |
| F | 10 | 2 | 5 | 62 | 65½ | 83 | 17½ | 20 | Asthma | do. |
| F | 8 | 3 | 7 | 52 | 37 | 58 | 21 | 21 | Organic | do. |
| | | | | | | | | | Heart Dis. | |
| F | 9 | 1 | 9 | 55½ | 58 | 75 | 17 | 11 | Heart Dis. | Do |
| F | 7 | | 11 | 47½ | 57 | 65 | 8 | 4½ | Chronic | do. |
| | | | | | | | | | Bronchitis | |
| M | 8 | | 3 | 55 | 55½ | 57½ | 2 | 1 | Heart Dis. | Left Town. |

Discharges from the Open-Air School during the Year 1928—*continued.*

| Sex | Age on admis. years | Length of stay yrs. mths | Average weight of normal child at similar age. lbs. | Weight on admission lbs. | Weight on discharge lbs. | Gain in weight lbs. | Average gain in weight of normal child at that age lbs. | Reason for Admission | Reason for Discharge |
|-----|------------------------|-----------------------------|--|-----------------------------|-----------------------------|------------------------|--|----------------------|------------------------|
| F | 9 | 2 3 | 55½ | 48 | 59½ | 11½ | 15 | Pre. T.B. | Death |
| M | 8 | 1 6 | 55 | 39 | 50 | 11 | 9 | Neurasth'nia | Left Town. |
| F | 10 | 3 6 | 62 | 50 | 61½ | 11½ | 30 | Heart Dis. | Age Limit. |
| F | 8 | 2 6 | 52 | 38 | 54 | 16 | 13 | Anæmia | Irregular Attendance. |
| F | 7 | 1 9 | 47½ | 42 | 49 | 7 | 7 | Pre. T.B. | Unsatisfactory. |
| M | 9 | 4 6 | 60 | 62 | 95 | 33 | 27 | Pre. T.B. | Age Limit. |
| F | 12 | 7 | 76½ | 61 | 67 | 6 | 6 | Chronic Bronchitis | Restoration of Health. |
| F | 13 | 5 | 87 | 72 | 78 | 6 | 4 | Debility | Age Limit. |

Average length of stay, 2 years 10½ months.

Average gain in weight per year, 5·6 lbs.

PHYSICAL TRAINING.

There is no Organiser of Physical Training employed.

The Board of Education Syllabus of Physical Training (1919) is used in the Schools.

The Local Authority possesses playing fields at Cherry Fold, and these are utilized by the Schools in that district during the afternoons for recreative training and organised games.

School Sports.—Organised competitions take place each year in respect of football and cricket for the boys and basket-ball for the girls. Galas are held for swimming and certificates awarded to encourage the scholars. A Sports Carnival is also organised each year.

PROVISION OF MEALS.

The total number of children requiring to be fed averaged 188.

Both breakfasts and dinners are provided. During the year a total of 81,049 meals were supplied (32,719 Breakfasts and 48,330 Dinners). The number of meals supplied in 1927 was 80,943.

The arrangements are in the hands of the Canteen Sub-Committee, and the cases are selected by the application of a scale approved by the Board, taking into consideration income and number in family.

SCHOOL BATHS.

Wash Baths are not provided at any of the Elementary Schools. They are installed in the two Special Schools for the Mentally Defective and at the Open Air School.

The Baths Committee provide facilities by allowing the Elementary School Children the use of the Public Swimming Baths. The Education Committee arrange for the attendance of classes of children usually during school hours. 47,218 attendances were made at the three Swimming Baths, compared with 45,421 last year. In addition 14,397 attendances were made by boys on Saturday mornings.

CO-OPERATION OF PARENTS.

As in former years, teachers on being advised of the date when routine medical inspection is to take place, are asked to send written notice to the parents of the entrants, requesting them to be present at the examination.

The Intermediates and Leavers are also directed by the teachers to inform their parents of the intended examination. 1,002 parents or relatives of entrants attended, and the following is a summary respecting the illnesses of the children prior to entering school, which was obtained from the relative attending the inspection.

| | | | |
|-------|-----------------|-------------------|-----------------|
| 45.4% | of the children | had suffered from | Measles. |
| 1.9% | " | " | Scarlet Fever. |
| 1.2% | " | " | Diphtheria. |
| 16.0% | " | " | Whooping Cough. |
| 18.3% | " | " | Chickenpox. |

Of the 1,697 entrants inspected, only 32% had been vaccinated.

As regards the Intermediate and Leaver Groups, in a few instances only were parents present at the inspection.

Parents are notified through the Head Teacher of all defects requiring treatment and advised to secure treatment through their own medical man, or in suitable cases, at the School Clinic.

CO-OPERATION OF TEACHERS.

All the teaching staff co-operate in following up cases requiring treatment, and in the notification of infectious and sickness cases amongst their scholars.

BLIND, DEAF, DEFECTIVE AND EPILEPTIC CHILDREN.

Teachers are instructed by the Director of Education to report twice yearly on given dates the names of all children in their Departments whom they desire to present to the School Medical Officer, with a view to admission to the Special Schools for Mentally Defective Children.

In addition to the mental cases, they are instructed to bring forward children with physical defects, i.e., those with markedly defective vision, deafness, crippling and epilepsy.

Cases are also referred to the School Medical Officer by the Assistant Medical Officers as a result of routine and special inspections.

Information regarding defective children not attending school is obtained through the Attendance Department.

Blind and Partially Blind.—The School for the Blind, situate at Tarleton House, has accommodation for 20 scholars. There are at present 16 children attending, of whom 12 are Burnley children, the rest being sent by neighbouring authorities.

Of the Burnley children, there are:—

| | Boys 2 | | Girls 10 | |
|-----------------|--------|-----|----------|---|
| Totally blind | — | ... | ... | 5 |
| Partially blind | 2 | ... | ... | 5 |

The Staff of the School consists of a Headmaster and a female Assistant.

Medical inspection of the pupils was carried out during the year.

In 1925 consideration was given to the question of establishing a class for children with seriously defective eyesight, and the Ophthalmic Surgeon is asked to recommend suitable cases.

The after care of the blind children is dealt with by the Blind Persons Act Sub-Committee. A scheme for the further instruction of blind young persons between 16 and 21 years is now established, and the County Borough Council through the Sub-Committee maintain a Workshop at Tarleton House.

Four Technical pupils are in attendance at the Workshop, two being Burnley pupils.

Deaf.—The Local Authority possesses a School for the Deaf; 18 children are receiving instruction here. 13 of them are Burnley children.

The particulars in respect of the Burnley children are:—

| | | | |
|------------------------|----|---------------------|---|
| Boys | 10 | Girls | 3 |
| Boys: Totally Deaf ... | 8 | Girls: Totally Deaf | 2 |
| Partially Deaf ... | 2 | Partially Deaf | 1 |

A Head Mistress and one Assistant constitute the Staff employed.

All the children were medically inspected during the year.

The after care of the Deaf children is in the hands of the Burnley Oral Society, and the Headmistress of the Deaf School is a member of that Society.

Mentally Defective Children.—There are two Special Schools for the Mentally Defective, one at Coal Clough and the other at Heasandford. Each school has accommodation for 65 scholars. The Staff at each school consists of a Headmistress and three assistants.

At the end of 1928, the number of children attending the Special Schools was 124—76 boys and 48 girls.

35 children were admitted (30 boys, 5 girls) and 24 were discharged during the year. The following are the particulars of those discharged:—

| | | | | | Boys. | | Girls. |
|----------------------------------|-----|-----|-----|-----|-------|-----|--------|
| Went to work | ... | ... | ... | ... | 7 | ... | 6 |
| Transferred to Elementary School | ... | | | ... | 3 | ... | 1 |
| Transferred to Institution | ... | | ... | ... | 1 | ... | — |
| Left at 16 | ... | ... | ... | ... | 1 | ... | 5 |

The children have been inspected by the Dentist during the year.

The after care of children requiring supervision outside school life is dealt with by the Burnley Ladies' After Care Committee.

SECONDARY SCHOOLS.

Pupils:—No. on Roll, Boys 369 ; Girls 358. Total 727.

Teachers:—Men 17 ; Women 19. Total 36.

Medical inspection of secondary pupils was continued during the year, the Deputy Medical Officer of Health examining the boys at the Grammar School and the Assistant Medical Officer of Health (lady) the girls at the High School.

Generally speaking, the procedure followed is that of the inspection of the children of the elementary schools. All pupils, on entering the secondary schools, are examined as soon as practicable after admission. This is only varied when the Inspecting Officer is satisfied that a recent complete examination has been made in the elementary school. Thereafter pupils are examined once a year.

The School Medical Officer is always available to the Principal for advice concerning pupils who may have shewn signs of some ailment or disability which develops in the period between routine inspection.

During the year the following pupils have been inspected:—

ROUTINE MEDICAL INSPECTION.

| Ages | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | Total |
|------------|---|----|----|----|----|----|----|----|----|----|----|-------|
| Boys ... | — | — | — | — | 3 | 6 | 8 | 25 | 13 | 5 | 1 | 61 |
| Girls ... | — | 6 | 31 | 69 | 61 | 83 | 43 | 26 | 13 | — | 1 | 333 |
| Totals ... | — | 6 | 31 | 69 | 64 | 89 | 51 | 51 | 26 | 5 | 2 | 394 |

Special Inspections at the Clinic:—

| | | | | |
|-------|-----|-----|-----|---|
| Boys | ... | ... | ... | 3 |
| Girls | ... | ... | ... | 1 |

FINDINGS OF MEDICAL INSPECTION.

A list of the defects found to require treatment or to be kept under observation is shewn in the Board's Table II.(A) of the Appendix.

Uncleanliness.—The Standard of cleanliness in the Secondary Schools continues to be high, only 4 children out of 394 inspected being noted as requiring attention.

Minor Ailments.—These are referred to under their respective headings.

Tonsils and Adenoids.—In 34 instances enlarged tonsils were discovered. 10 were referred for treatment, and 24 were kept under observation. There were 4 other conditions of the Nose and Throat.

Tuberculosis.—1 case of Tuberculosis-Glands was discovered and 4 suspected cases of Pulmonary Tuberculosis.

Skin Disease.—There were 2 cases of Acne and 1 of Intertrigo. These all required treatment.

External Eye Disease.—There were no defects under this heading recorded.

Vision.—There were 51 cases of defective vision found, but only in 24 of the pupils was the defect so pronounced as to require treatment. 58 pupils were wearing suitable glasses.

Ear Disease and Hearing.—Defective hearing was found in two cases, Otorrhœa in three cases, and "Wax in ears" was present in 22.

Dental Defects.—122 pupils had some dental defects. All the cases except one were referred for treatment.

Crippling Defects.—23 of the pupils had some deformity. 1 Spinal Curvature, 1 case of Knock-knee, 1 of Infantile Paralysis, 13 Round Shoulders, 3 of Deformed Chest, 1 of Cleft Palate, 1 case of Flat Foot and 2 cases of Winged Scapulæ.

Heart and Circulation.—There were 25 cases of Heart Disease—organic 5; functional 20; also 34 with Anæmia.

Pupils requiring Treatment.—164 or 41·6% of the pupils had defects (apart from uncleanliness and Defective Teeth) which required treatment.

Height and Weight.—Records of the Height and Weight of the pupils were made, and the following shews the averages for each age group.

Average Height and Weight of Pupils at the High School for Girls.

| | 1928 Number Inspected. | | Average Height. | | | | Average Weight. | | |
|--------------------|------------------------------|-----|-----------------|-----------------|-----|-----|-----------------|--------------|-----|
| | | | 1928 inches. | 1927 inches. | | | 1928 lbs. | 1927 lbs. | |
| Age 10 years | 6 | ... | 56.3 | 57.0 | ... | ... | 83.3 | 84.5 | ... |
| Age 11 years | 31 | ... | 56.7 | 56.9 | ... | ... | 78.1 | 80.1 | ... |
| Age 12 years | 69 | ... | 60.1 | 58.0 | ... | ... | 87.4 | 81.0 | ... |
| Age 13 years | 61 | ... | 60.7 | 60.4 | ... | ... | 92.8 | 96.1 | ... |
| Age 14 years | 83 | ... | 62.1 | 61.8 | ... | ... | 106.4 | 103.5 | ... |
| Age 15 years | 43 | ... | 62.3 | 61.8 | ... | ... | 107.2 | 108.6 | ... |
| Age 16 years | 26 | ... | 62.9 | 63.2 | ... | ... | 110.5 | 110.5 | ... |
| Age 17 years | 13 | ... | 64.1 | 63.2 | ... | ... | 120.8 | 121.1 | ... |
| Age 18 years | — | ... | — | — | ... | ... | — | — | ... |
| Age 19 years | 1 | ... | 63.0 | — | ... | ... | 117.5 | — | ... |

Average Height and Weight of Pupils at the Grammar School for Boys.

| | | | | | | | | | |
|--------------------|----|-----|------|------|-----|-----|-------|-------|-----|
| Age 10 years | — | ... | — | 54.0 | ... | ... | — | 65.0 | ... |
| Age 11 years | — | ... | — | 56.5 | ... | ... | — | 76.2 | ... |
| Age 12 years | — | ... | — | 57.3 | ... | ... | — | 80.6 | ... |
| Age 13 years | 3 | ... | 63.0 | 60.0 | ... | ... | 100.8 | 90.0 | ... |
| Age 14 years | 6 | ... | 64.0 | 62.0 | ... | ... | 106.5 | 97.3 | ... |
| Age 15 years | 8 | ... | 64.7 | 65.1 | ... | ... | 113.7 | 110.7 | ... |
| Age 16 years | 25 | ... | 67.8 | 66.4 | ... | ... | 124.7 | 120.8 | ... |
| Age 17 years | 13 | ... | 66.8 | 68.6 | ... | ... | 122.9 | 137.1 | ... |
| Age 18 years | 5 | ... | 69.4 | 68.8 | ... | ... | 145.5 | 133.6 | ... |
| Age 19 years | 1 | ... | 71.0 | — | ... | ... | 137.5 | — | ... |

Infectious Disease.—During the year no action was necessary beyond the exclusion of a few pupils and contacts.

Medical Treatment.—Notices are sent to parents through the Principal of the School when defects requiring treatment are found. In the case of minor ailments, errors of refraction and dental defects, the pupils are at liberty to attend at the School Clinic. The "following up" of defects found in pupils is primarily through the Principal.

The majority of the defects were treated privately, but in 23 instances the pupils attended the School Clinic, 6 for Dental Defects and 17 for Defective Vision. 9 attended again for inspection of glasses.

MISCELLANEOUS.

Employment of Children and Young Persons.—One child was referred to the School Medical Department for examination prior to granting a licence for employment out of school hours, but no young persons have been referred to the Department during the year.

The officers of the School Medical Department are at the service of the Juvenile Employment Committee.

Special Enquiries.—No special enquiries relating to the School Medical Service were conducted by the Staff during the year.

Other Medical Examinations.—93 children were medically examined by the Assistant School Medical Officer at the Special Schools for Mentally Defective, Blind and Deaf, during the year.

305 children were examined at the School Clinic as to their suitability to go to Hest Bank Holiday Camp.

80 were examined as to their fitness to re-enter school after having had an infectious disease or being a contact case.

Deaths of School Children.—38 children between 5—15 years of age died during the year. Included are 5 from Diphtheria ; 2 from Measles ; 1 from Enteric Fever ; 1 from Influenza ; 1 from Pulmonary Tuberculosis ; 4 other forms of Tuberculosis ; Respiratory Diseases, 2 ; Heart Disease 2 ; 5 had accidental deaths, and 15 died from other causes.

APPENDIX.

MEDICAL STATISTICAL TABLES, YEAR ENDED 31st DECEMBER, 1928.

Table 1.—Return of Medical Inspections.

(a) ROUTINE MEDICAL INSPECTIONS.

Elementary Schools.

Number of Code Group Inspections:—

| | | | | | |
|---------------|-----|-----|-----|-----|-------|
| Entrants | ... | ... | ... | ... | 1,697 |
| Intermediates | ... | ... | ... | ... | 1,554 |
| Leavers | ... | ... | ... | ... | 1,177 |
| Total | | | | | 4,428 |

| | | |
|-------------------------------------|-----|----|
| Number of other Routine Inspections | ... | 71 |
|-------------------------------------|-----|----|

(b) OTHER INSPECTIONS.

| | At Schools. | At School Clinic. | Total. |
|-------------------------------|-------------|-------------------|------------|
| Number of Special Inspections | ... 329 | ... 1,836 | ... 2,165 |
| Number of Re-Inspections | ... 5,018 | ... 3,085 | ... 8,103 |
| Totals | ... 5,347 | ... 4,921 | ... 10,268 |

Secondary Schools.

(a) ROUTINE MEDICAL INSPECTIONS.

| | | | | | |
|-----------------|-----|-----|-----|-----|-----|
| Number examined | ... | ... | ... | ... | 394 |
|-----------------|-----|-----|-----|-----|-----|

(b) OTHER INSPECTIONS.

| | | | | |
|-------------------------------|-----|-----|-----|---|
| Number of Special Inspections | ... | ... | ... | 4 |
| Number of Re-Inspections | ... | ... | ... | — |
| Total | ... | ... | ... | 4 |

TABLE II. (A)—Return of Defects found in the course of Medical Inspection in 1927.

| Defect or Disease. | Elementary Schools. | | | | | | Secondary Schools. | | | |
|---|---------------------|--|---------------------------------------|--|--|--|---------------------|--|---------------------|--|
| | Routine Inspections | | Special Inspections by M.O. at School | | Special Inspections by M.O. at School Clinic | | Routine Inspections | | Special Inspections | |
| | No. of Defects | | No. of Defects | | No. of Defects | | No. of Defects | | No. of Defects | |
| | Requiring Treatment | Requiring to be kept under observation but not requiring Treatment | Requiring Treatment | Requiring to be kept under observation but not requiring Treatment | Requiring Treatment | Requiring to be kept under observation but not requiring Treatment | Requiring Treatment | Requiring to be kept under observation but not requiring Treatment | Requiring Treatment | Requiring to be kept under observation but not requiring Treatment |
| Malnutrition | 2 | — | 2 | — | — | — | — | — | — | — |
| Uncleanliness : Head | 536 | 1 | 16 | — | 36 | — | 1 | 1 | — | — |
| Body | 114 | — | 13 | — | 3 | — | 2 | — | — | — |
| Skin : Ringworm : Head | 10 | — | — | — | 37 | — | — | — | — | — |
| Body | 5 | — | 3 | — | 79 | — | — | — | — | — |
| Scabies | 1 | — | — | — | 10 | — | — | — | — | — |
| Impetigo | 32 | — | 14 | — | 221 | — | — | — | — | — |
| Other Diseases (Non-Tuberculous) | 58 | 1 | 8 | — | 70 | — | 3 | — | — | — |
| Eye : Blepharitis | 24 | — | 5 | — | 33 | — | — | — | — | — |
| Conjunctivitis | 4 | — | 3 | — | 49 | — | — | — | — | — |
| Keratitis | — | — | — | — | 1 | — | — | — | — | — |
| Corneal Ulcers | — | — | 1 | — | 6 | — | — | — | — | — |
| Corneal Opacities | 1 | — | — | — | — | — | — | — | — | — |
| Defective Vision (excluding Squint) | 357 | 145 | 55 | 12 | 139 | 7 | 24 | 27 | 1 | — |
| Squint | 30 | 11 | 3 | 1 | 13 | — | — | — | — | — |
| Other conditions | 19 | — | 3 | — | 35 | — | — | — | — | — |
| Ear : Defective Hearing | 4 | — | 7 | — | 10 | — | 2 | — | — | — |
| Otitis Media | — | — | — | — | — | — | — | — | — | — |
| Other Ear Diseases | 22 | — | 8 | — | 90 | — | 25 | — | 1 | — |
| Nose and Throat : Enlarged Tonsils only | 175 | 207 | 5 | 5 | 62 | 2 | 10 | 24 | — | — |
| Adenoids only | 40 | 21 | 10 | 1 | 18 | — | — | — | 1 | — |
| Enl. Tonsils and Adenoids | 14 | 2 | — | — | 24 | — | — | — | — | — |
| Other conditions | 24 | 1 | 12 | — | 46 | — | 3 | 1 | — | — |
| Enlarged Cervical Glands (Non-Tuberculous) | 257 | 180 | 25 | 3 | 41 | — | 35 | 29 | — | — |
| Defective Speech | 4 | — | 9 | — | — | — | 2 | — | — | — |
| Teeth | 1024 | 64 | 37 | — | 39 | — | 121 | 1 | — | — |
| Heart and Circulation : | | | | | | | | | | |
| Heart Disease : Organic | 68 | 7 | 4 | 1 | 12 | — | 5 | — | — | — |
| Functional | 23 | — | 1 | — | 6 | — | 18 | 2 | — | — |
| Anæmia | 103 | 32 | 9 | 2 | 110 | — | 23 | 11 | — | — |
| Lungs : Bronchitis | 88 | 6 | 3 | — | 62 | — | — | — | — | — |
| Others (Non-Tuberculous Diseases) | 1 | — | — | — | 16 | — | 3 | — | — | — |
| Pulmonary Tuberculosis : Definite | 1 | — | — | — | — | — | — | — | — | — |
| Suspected | 7 | — | — | — | 1 | — | 4 | — | — | — |
| Non-Pulmonary Tuberculosis : Glands | 1 | — | — | — | — | — | 1 | — | — | — |
| Knee | 2 | — | — | — | — | — | — | — | — | — |
| Hip | — | — | — | — | — | — | — | — | — | — |
| Other Bones and Joints | — | — | — | — | 1 | — | — | — | — | — |
| Other Forms | — | — | — | — | 2 | — | — | — | — | — |
| Nervous System : Epilepsy | — | — | — | — | 1 | — | — | — | — | — |
| Chorea | 2 | — | 2 | — | 15 | — | 1 | — | — | — |
| Other conditions | 29 | — | 5 | — | 10 | — | 1 | — | — | — |
| Deformities : Rickets | 30 | — | 1 | — | 7 | — | — | — | — | — |
| Spinal Curvature | 9 | — | — | — | 1 | — | 1 | — | — | — |
| Other Forms | 154 | 2 | 9 | — | 7 | — | 22 | — | — | — |
| Other Defects and Diseases | 383 | 3 | 78 | — | 790 | 1 | 22 | — | 1 | — |
| Totals | 3658 | 683 | 351 | 25 | 2103 | 10 | 329 | 96 | 4 | — |

(B.)—Number of Individual Children found at Routine Medical Inspection to require Treatment (excluding Uncleanliness and Dental Diseases).

Elementary Schools.

| GROUP. | NUMBER OF CHILDREN | | Percentage of Children found to require Treatment. |
|----------------------------------|--------------------|-----------------------------|--|
| | Inspected. | Found to require Treatment. | |
| Code Groups : | | | |
| Entrants | 1,697 | 536 | 31·6 |
| Intermediates | 1,554 | 589 | 38·0 |
| Leavers | 1,177 | 419 | 35·6 |
| Total (Code Groups) | 4,428 | 1,544 | 34·9 |
| Other Routine Inspections | 71 | 28 | 39·4 |

Secondary Schools.

| | | | |
|-------------------------|-----|-----|------|
| Secondary Pupils | 394 | 164 | 41·6 |
|-------------------------|-----|-----|------|

TABLE III.—Return of all Exceptional Children in the Area.

| | Boys. | Girls. | Total. |
|---|-------|--------|--------|
| BLIND (including partially blind). | | | |
| (i) Suitable for training in a school or class for the totally blind— | | | |
| Attending Certified Schools or Classes for the Blind ... | — | 5 | 5 |
| Attending Public Elementary Schools... .. | — | — | — |
| At other Institutions | — | — | — |
| At no School or Institution | — | — | — |
| (ii) Suitable for training in a school or class for the partially blind— | | | |
| Attending Certified Schools or Classes for the Blind... .. | 2 | 5 | 7 |
| Attending Public Elementary Schools... .. | — | — | — |
| At other Institutions | — | — | — |
| At no School or Institution | — | — | — |
| DEAF (including deaf and dumb and partially deaf). | | | |
| (i) Suitable for training in a school or class for the totally deaf or deaf and dumb— | | | |
| Attending Certified Schools or Classes for the Deaf | 8 | 2 | 10 |
| Attending Public Elementary Schools... .. | — | — | — |
| At other Institutions | 1 | — | 1 |
| At no School or Institution | — | — | — |
| (ii) Suitable for training in a school or class for the partially deaf— | | | |
| Attending Certified Schools or Classes for the deaf | 2 | 1 | 3 |
| Attending Public Elementary Schools... .. | — | — | — |
| At other Institutions | — | — | — |
| At no School or Institution | — | — | — |
| MENTALLY DEFECTIVE. | | | |
| Feeble-minded (cases not notifiable to the Local Authority)— | | | |
| Attending Certified Schools for Mentally Defective Children... | 76 | 48 | 124 |
| Attending Public Elementary Schools... .. | — | — | — |
| At other Institutions | 1 | — | 1 |
| At no School or Institution | 11 | 13 | 24 |
| Notified to the Local Control Authority during the year— | | | |
| Feeble-minded | — | — | — |
| Imbeciles | — | — | — |
| Idiots | — | — | — |
| EPILEPTICS. | | | |
| Suffering from severe epilepsy— | | | |
| Attending Certified Special Schools for Epileptics | — | — | — |
| In Institutions other than Certified Special Schools | 1 | — | 1 |
| Attending Public Elementary Schools... .. | — | — | — |
| At no School or Institution | 3 | 3 | 6 |
| Suffering from Epilepsy which is not severe— | | | |
| Attending Public Elementary Schools... .. | 5 | 1 | 6 |
| At no School or Institution | — | — | — |

TABLE III.—Return of all Exceptional Children in the Area.—cont.

| | Boys. | Girls. | Total. |
|--|-------|--------|--------|
| PHYSICALLY DEFECTIVE. | | | |
| Infectious Pulmonary and Glandular Tuberculosis— | | | |
| At Sanatoria or Sanatorium Schools approved by the Ministry of Health or the Board | — | — | — |
| At other Institutions | — | — | — |
| At no School or Institution | — | 2 | 2 |
| Non-infectious but active Pulmonary and Glandular Tuberculosis— | | | |
| At Sanatoria or Sanatorium Schools approved by the Ministry of Health or the Board | — | — | — |
| At Certified Residential Open Air Schools | — | — | — |
| At Certified Day Open Air Schools | — | — | — |
| At Public Elementary Schools | 5 | 10 | 15 |
| At other Institutions | — | — | — |
| At no School or Institution | 1 | 4 | 5 |
| Delicate Children (e.g., pre- or latent Tuberculosis, Malnutrition, Debility, Anæmia, etc.)— | | | |
| At Certified Residential Open Air Schools | — | — | — |
| At Certified Day Open Air Schools | 60 | 60 | 120 |
| At Public Elementary Schools | 102 | 133 | 235 |
| At other Institutions | — | — | — |
| At no School or Institution | 9 | 7 | 16 |
| Active Non-Pulmonary Tuberculosis— | | | |
| At Sanatoria or Hospital Schools approved by the Ministry of Health or the Board | 1 | — | 1 |
| At Public Elementary Schools | 5 | 5 | 10 |
| At other Institutions | 2 | — | 2 |
| At no School or Institution | 3 | 4 | 7 |
| Crippled Children (other than those with active tuberculous disease) e.g., children suffering from paralysis, etc., and including those with severe heart disease— | | | |
| At Certified Hospital Schools | 3 | 2 | 5 |
| At Certified Residential Cripple Schools | — | — | 1 |
| At Certified Day Cripple Schools | — | — | — |
| At Public Elementary Schools | 75 | 70 | 145 |
| At other Institutions | — | — | — |
| At no School or Institution | 7 | 8 | 15 |

TABLE IV.—Return of Defects treated during the Year ended
31st December, 1928.

ELEMENTARY SCHOOLS.—TREATMENT TABLE.

GROUP I.—MINOR AILMENTS (EXCLUDING UNCLEANLINESS, FOR WHICH SEE
GROUP V.)

| Disease or Defect. | Number of Defects treated, or under treatment during the year. | | | |
|--|--|------------|------------|--------|
| | Under the Authority's Scheme. | | Otherwise. | Total. |
| | Remaining under treatment on the 31 Dec. 1927. | New Cases. | | |
| Skin : | | | | |
| Ringworm—Scalp | 38 | 36 | 8 | 82 |
| Body | 5 | 75 | 7 | 87 |
| Scabies | — | — | 12 | 12 |
| Impetigo | 10 | 193 | 45 | 248 |
| Other Skin Diseases | 15 | 52 | 50 | 117 |
| Minor Eye Defects (external and other, but excluding cases falling in Group II.) ... | 17 | 113 | 38 | 168 |
| Minor Ear Defects | 19 | 93 | 43 | 155 |
| Miscellaneous (e.g., Minor injuries, bruises, sores, chilblains, etc.) | 18 | 400 | 169 | 587 |
| Total | 122 | 962 | 372 | 1456 |

TABLE IV.—contd.

GROUP II.—DEFECTIVE VISION AND SQUINT (EXCLUDING MINOR EYE DEFECTS
TREATED AS MINOR AILMENTS—GROUP I.)

| Defect or Disease. | Number of Defects dealt with. | | | |
|---|-------------------------------------|---|-----------|--------|
| | Under the Authority's Scheme. | Submitted to refraction by private practitioner or at hospital apart from the Authority's Scheme. | Otherwise | Total. |
| Errors of refraction (including Squint) .. | 522 | 28 | — | 550 |
| Other Defect or Disease of the eyes (ex- cluding those recorded in Group I.) ... | — | — | — | — |
| Total | 522 | 28 | — | 550 |

Total number of children for whom spectacles were prescribed—

| | |
|---|-----|
| (a) Under the Authority's Scheme | 422 |
| (b) Otherwise | 28 |

Total number of children who obtained or received spectacles—

| | |
|---|-----|
| (a) Under the Authority's Scheme | 294 |
| (b) Otherwise | 156 |

GROUP III.—TREATMENT OF DEFECTS OF NOSE AND THROAT.

NUMBER OF DEFECTS.

| Received Operative Treatment. | | | Received other forms of treatment. | Total number treated. |
|--|--|--------|--|-----------------------------|
| Under the Authority's Scheme in Clinic or Hospital. | By Private Practitioner or Hospital, apart from the Authority's Scheme. | Total. | | |
| 148 | 28 | 176 | 161 | 337 |

GROUP IV.—DENTAL DEFECTS.

(1) Number of children who were—

(a) Inspected by the Dentist:

| | | | | | | |
|--------------------|---|------------|-------|---|-----------|-------|
| Routine Age Groups | { | Aged 6 ... | 1,362 | } | Total ... | 7,906 |
| | | „ 7 ... | 1,447 | | | |
| | | „ 8 ... | 1,677 | | | |
| | | „ 9 ... | 627 | | | |
| | | „ 10 ... | 942 | | | |
| | | „ 11 ... | 993 | | | |
| | | „ 12 ... | 796 | | | |
| | | „ 13 ... | 61 | | | |
| | | „ 14 ... | 1 | | | |

Children attending Special Schools ... 122

Specials ... 694

Grand Total ... 8,722

(b) Found to require treatment ... 7,385

(c) Actually treated ... 3,042

(d) Re-treated during the year as the result of periodical examination ... 1,690

| | | | | | | | | |
|--------------------------|-----|-----|---|------------|-----|---|-----------|-----|
| (2) Half-days devoted to | ... | ... | { | Inspection | 75 | } | Total ... | 359 |
| | | | { | Treatment | 284 | | | |

(3) Attendances made by children for treatment ... 3,976

| | | | | | | | | |
|--------------|-----|-----|---|-----------------|-------|---|-----------|-------|
| (4) Fillings | ... | ... | { | Permanent Teeth | 1,540 | } | Total ... | 1,918 |
| | | | { | Temporary Teeth | 378 | | | |

| | | | | | | | | |
|-----------------|-----|-----|---|-----------------|-------|---|-----------|-------|
| (5) Extractions | ... | ... | { | Permanent Teeth | 481 | } | Total ... | 6,274 |
| | | | { | Temporary Teeth | 5,793 | | | |

(6) Administration of General Anæsthetics for Extractions ... 8

| | | | | | | | | |
|----------------------|-----|-----|---|-----------------|-------|---|-----------|-------|
| (7) Other Operations | ... | ... | { | Permanent Teeth | 380 | } | Total ... | 2,609 |
| | | | { | Temporary Teeth | 2,229 | | | |

GROUP V.—UNCLEANLINESS AND VERMINOUS CONDITIONS.

| | | | |
|--|---|--|---|
| (1) Average number of visits per School made during the year by the School Nurses. | { | 4 Visit paid to 4 Special School. | } |
| | { | 22 Visits paid to 22 Elementary Schools. | |

(2) Total number of examinations of children in the Schools by the School Nurses 7,735

(3) Number of individual children found unclean ... 231

(4) Number of children cleansed under arrangements made by the Local Education Authority ... —

(5) Number of cases in which legal proceedings were taken —

(a) Under the Education Act, 1921 ... —

(b) Under School Attendance Bye-Laws ... —

APPENDIX II.

Table shewing in detail the Physical Condition of Children Examined at Routine Medical Inspection during 1928.

| Disease or Defect. | ELEMENTARY SCHOOLS. | | | | | Secondary Pupils | Total |
|-------------------------------------|---------------------|----------------|---------|------------|----------|------------------|-------|
| | En-trants | Inter-mediates | Leavers | Other Ages | Specials | | |
| Number of Children Examined ... | 1697 | 1554 | 1177 | 71 | 329 | 394 | 5222 |
| Malnutrition ... | — | 1 | 1 | — | 2 | — | 4 |
| Uncleanliness: Head ... | 206 | 237 | 91 | 3 | 16 | 2 | 555 |
| Body ... | 42 | 41 | 30 | 1 | 13 | 2 | 129 |
| Clothing ... | 5 | — | 2 | — | 10 | — | 17 |
| Defective Clothing and Footgear ... | 28 | 8 | 9 | — | 9 | — | 54 |
| SKIN— | | | | | | | |
| Ringworm: Head ... | 7 | 2 | 1 | — | — | — | 10 |
| Body ... | 3 | — | 2 | — | 3 | — | 8 |
| Scabies ... | — | — | 1 | — | — | — | 1 |
| Impetigo ... | 20 | 7 | 5 | — | 14 | — | 46 |
| OTHER SKIN DISEASES | | | | | | | |
| Sclero Derma ... | — | 2 | — | — | — | — | 2 |
| Urticaria ... | 8 | — | — | — | — | — | 8 |
| Alopecia ... | 6 | 5 | 3 | — | — | — | 14 |
| Seborrhoea ... | 11 | 9 | 2 | — | 1 | — | 23 |
| Psoriasis ... | — | — | — | — | 1 | — | 1 |
| Eczema ... | 2 | 1 | — | — | 1 | — | 4 |
| Intertrigo ... | 2 | 2 | 1 | — | 4 | 1 | 10 |
| Dermatitis ... | 2 | 1 | 1 | — | 1 | — | 5 |
| Acne ... | — | — | — | — | — | 2 | 2 |
| Erythema ... | 1 | — | — | — | — | — | 1 |
| EYE DISEASES— | | | | | | | |
| Blepharitis ... | 12 | 6 | 6 | — | 5 | — | 29 |
| Conjunctivitis ... | 2 | 1 | 1 | — | 3 | — | 7 |
| Corneal Opacities ... | — | — | 1 | — | — | — | 1 |
| Corneal Ulcers ... | — | — | — | — | 1 | — | 1 |
| Defective Vision ... | 1 | 288 | 197 | 16 | 67 | 51 | 620 |
| Squint ... | 23 | 10 | 7 | 1 | 4 | — | 45 |
| OTHER CONDITIONS— | | | | | | | |
| Cataract ... | — | — | 1 | — | — | — | 1 |
| Stye ... | 3 | 6 | 2 | — | 2 | — | 13 |
| Nystagmus ... | — | 3 | 1 | — | — | — | 4 |
| Ptosis ... | 2 | — | 1 | — | — | — | 3 |
| Chalazion ... | — | — | — | — | 1 | — | 1 |
| EAR DISEASES— | | | | | | | |
| Defective Hearing ... | 2 | 1 | 1 | — | 7 | 2 | 13 |
| OTHER CONDITIONS— | | | | | | | |
| Otorrhoea ... | 9 | 3 | 3 | — | 4 | 3 | 22 |
| Wax in Ears ... | 3 | — | 4 | — | 4 | 22 | 33 |
| NOSE AND THROAT— | | | | | | | |
| Enlarged Tonsils ... | 142 | 130 | 108 | 2 | 10 | 34 | 426 |
| Adenoids... ... | 28 | 12 | 20 | 1 | 11 | — | 72 |
| Enlarged Tonsils and Adenoids ... | 8 | 7 | 1 | — | — | — | 16 |
| OTHER CONDITIONS— | | | | | | | |
| Nasal Polypus ... | — | — | — | — | — | 1 | 1 |
| Septic Throat ... | 1 | — | — | — | — | — | 1 |
| Nasal Catarrh ... | 2 | 1 | — | — | 1 | 2 | 6 |
| Mouth Breather... ... | 5 | 1 | 4 | — | 8 | 1 | 19 |
| Tonsillitis... ... | — | — | 3 | — | 3 | — | 6 |
| Biuvula ... | 4 | 2 | 1 | — | — | — | 7 |
| Pharyngitis ... | — | — | 1 | — | — | — | 1 |

Table shewing Physical Condition of Children Examined—(cont).

| Disease or Defect. | ELEMENTARY SCHOOLS. | | | | | Second- ary Pupils | Total |
|---------------------------------|---------------------|--------------------|---------|---------------|----------|--------------------------|-------|
| | En- trants | Inter- mediates | Leavers | Other Ages | Specials | | |
| DEFECTIVE SPEECH | 1 | — | 2 | 1 | 9 | 2 | 15 |
| ENLARGED CERVICAL GLANDS | 123 | 196 | 110 | 8 | 28 | 64 | 529 |
| DEFECTIVE TEETH | 478 | 384 | 218 | 8 | 37 | 122 | 1247 |
| HEART AND CIRCULATION— | | | | | | | |
| Heart Disease: Organic | 11 | 31 | 31 | 2 | 5 | 5 | 85 |
| Functional | 4 | 10 | 9 | — | 1 | 20 | 44 |
| Anæmia | 57 | 54 | 23 | 1 | 11 | 34 | 180 |
| LUNGS— | | | | | | | |
| Asthma | — | — | — | — | — | 1 | 1 |
| Bronchitis | 81 | 11 | 2 | — | 3 | — | 97 |
| Bronchial Catarrh | — | 1 | — | — | — | 2 | 3 |
| TUBERCULOSIS— | | | | | | | |
| Pulmonary: Definite | — | — | 1 | — | — | — | 1 |
| Suspected | 5 | 2 | — | — | — | 4 | 11 |
| Non-Pulmonary: Glands | — | 1 | — | — | — | 1 | 2 |
| Knee | 1 | 1 | — | — | — | — | 2 |
| NERVOUS SYSTEM— | | | | | | | |
| Chorea | — | 1 | 1 | — | 2 | 1 | 5 |
| OTHER CONDITIONS— | | | | | | | |
| Fine Tremors | — | — | — | — | 1 | 1 | 2 |
| Habit Spasm | — | 1 | 1 | — | 1 | — | 3 |
| Hesitation Stammer | 2 | 5 | 7 | 1 | 1 | — | 16 |
| Nervous | 4 | 3 | 5 | — | 2 | — | 14 |
| DEFORMITIES— | | | | | | | |
| Spinal Disease | 1 | — | — | — | — | — | 1 |
| Talipes | — | 1 | — | — | — | — | 1 |
| Rickets | 21 | 6 | 3 | — | 1 | — | 31 |
| Spinal Curvature | 1 | 6 | 2 | — | — | 1 | 10 |
| Winged Scapulae | — | — | 1 | — | 1 | 2 | 4 |
| OTHER FORMS— | | | | | | | |
| Round Shoulders | 13 | 56 | 19 | 5 | 3 | 13 | 109 |
| Clubbing of Fingers | — | — | — | — | 1 | — | 1 |
| Knock Knee | 4 | 5 | 3 | — | 1 | 1 | 14 |
| Bow Legs | 3 | 1 | 2 | — | — | — | 6 |
| Congenital Dislocation | 1 | — | — | — | — | — | 1 |
| Torticollis | — | 3 | 1 | — | 2 | — | 6 |
| Deformed Chest | 8 | 5 | 3 | — | — | 3 | 19 |
| Deformity of Ribs | — | — | 1 | — | — | — | 1 |
| Infantile Paralysis | 1 | 1 | — | — | — | 1 | 3 |
| Genu Valgum | 2 | — | — | — | 1 | — | 3 |
| Arched Palate | 2 | 3 | 2 | 1 | — | — | 8 |
| Cleft Palate | — | 1 | — | — | — | 1 | 2 |
| Undeveloped Ear | 1 | — | — | — | — | — | 1 |
| Flat Foot | 2 | — | 1 | — | — | 1 | 4 |
| Pseudo Coxalgia | 1 | — | — | — | — | — | 1 |
| Other Minor Deformities | 1 | 1 | — | — | — | — | 2 |
| OTHER DEFECTS AND DISEASES— | | | | | | | |
| Lipoma | — | 1 | — | — | — | — | 1 |

Table shewing Physical Condition of Children Examined—(cont).

| Disease or Defect | ELEMENTARY SCHOOLS. | | | | | Secondary Pupils | Total |
|---|---------------------|---------------|---------|------------|----------|------------------|-------|
| | En-trants | Inter-mediate | Leavers | Other Ages | Specials | | |
| Phimosis | 4 | 3 | 7 | — | — | — | 14 |
| Enlarged Thyroid and Goitre ... | — | 3 | 18 | — | 6 | 4 | 31 |
| Albino | 1 | — | — | — | — | — | 1 |
| Rheumatism | — | — | — | 1 | 1 | — | 2 |
| Hernia | 5 | 2 | — | — | — | — | 7 |
| Obesity | 1 | — | 5 | — | 1 | 1 | 8 |
| Influenza | — | — | — | — | 1 | — | 1 |
| Chickenpox | 2 | — | — | — | 1 | — | 3 |
| Minor Intestinal Complaints ... | 8 | 4 | 4 | — | 3 | — | 19 |
| Incontinence | 4 | 3 | 2 | — | 1 | — | 10 |
| Miscellaneous Minor Injuries ... | 56 | 35 | 15 | 4 | 15 | 4 | 129 |
| Other Unclassified Defects ... | 42 | 55 | 21 | 2 | 29 | 10 | 159 |
| Not yet Diagnosed | 12 | 12 | 2 | — | 1 | 3 | 30 |
| TOTALS | 1554 | 1695 | 1034 | 58 | 376 | 425 | 5142 |
| No. of individual children having defects... .. | 1087 | 1019 | 683 | 40 | 315 | 275 | 3419 |

APPENDIX III.

Table shewing Number of Children Examined at each Elementary School.

| SCHOOL. | Entrants | Inter- mediates | Leavers | Other Ages | Special Cases | Totals |
|--------------------------|----------|--------------------|---------|---------------|------------------|--------|
| Abel Street | 110 | 124 | 94 | 7 | 36 | 371 |
| Back Lane | 19 | 15 | 12 | — | 10 | 56 |
| Burnley Wood | 108 | 122 | 109 | 8 | 62 | 409 |
| Coal Clough | 146 | 155 | 82 | 10 | 22 | 415 |
| Fulledge | 132 | 12 | — | — | 1 | 145 |
| Habergham | 21 | 20 | 24 | 1 | 2 | 68 |
| Healey Wood | 41 | 31 | — | — | 8 | 80 |
| Hargher Clough | 53 | 48 | 40 | — | 5 | 146 |
| Heasandford | 97 | 99 | 84 | 2 | 14 | 296 |
| Lane Head | 24 | 18 | 8 | — | 4 | 54 |
| Lionel Street | 71 | 76 | 72 | 6 | 11 | 236 |
| Pickup Croft | 28 | — | — | — | — | 28 |
| Red Lion Street | 27 | 52 | 27 | 2 | 4 | 112 |
| Rosegrove | 70 | 79 | 61 | 1 | 14 | 225 |
| St. Andrew's | 51 | 60 | 39 | 1 | 8 | 159 |
| St. Augustine's | 13 | 8 | 11 | — | 2 | 34 |
| St. John's (R.C.) | 24 | 23 | 18 | — | 7 | 72 |
| St. Mary's | 124 | 76 | 80 | 7 | 39 | 326 |
| St. Mary Magdalene's ... | 56 | 60 | 36 | 1 | 11 | 164 |
| St. Peter's | 76 | 34 | 41 | 1 | 8 | 160 |
| St. Stephen's | 67 | 58 | 37 | — | 5 | 167 |
| St. Thomas's | 49 | 35 | 6 | 7 | 7 | 104 |
| Stoneyholme | 105 | 75 | 74 | 4 | 9 | 267 |
| Todmorden Road | — | 113 | 140 | 10 | 4 | 267 |
| Holy Trinity | 74 | 51 | 38 | — | 3 | 166 |
| Sandygate | — | 32 | 28 | 1 | 10 | 71 |
| Whittlefield | 83 | 25 | — | — | 5 | 113 |
| Wood Top | 28 | 53 | 16 | 2 | 18 | 117 |
| TOTALS | 1697 | 1554 | 1177 | 71 | 329 | 4828 |



