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COUNTY BOROUGH OF OLDHAM.

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REPORT  
ON THE  
HEALTH OF OLDHAM  
FOR THE YEAR 1916,  
BY  
JAMES B. WILKINSON,  
M.D., C.M., D.P.H., F.C.S.

MEDICAL OFFICER OF HEALTH ;  
MEDICAL OFFICER TO THE EDUCATION COMMITTEE ;  
MEDICAL SUPERINTENDENT OF WESTHULME AND STRINESDALE HOSPITALS ;  
EX-PRESIDENT AND EXAMINER TO THE INSTITUTE OF SANITARY ENGINEERS ;  
FELLOW ROYAL INSTITUTE OF PUBLIC HEALTH ;  
MEMBER ROYAL SANITARY INSTITUTE ;  
FELLOW INCORPORATED SOCIETY OF MEDICAL OFFICERS OF HEALTH.

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## MEMBERS of the HEALTH COMMITTEE, 1916.

Mr. Councillor Simister, J.P., Chairman.

„ „ Dunkerley, J.P., Vice-Chairman.

The Mayor, Mr. Alderman Greaves, J.P.

Mr. Councillor Ashton.

„ „ Grime, J.P.

„ „ Stanbury

„ „ Makin.

„ „ W. C. Brierley.

„ „ Jackson.

---

## HOSPITALS SUB-COMMITTEE AND INSANITARY DWELLINGS SUB-COMMITTEE.

All the Members of the Committee.



*To the Mayor, Aldermen, and Councillors  
of the Oldham Borough Council.*

DAME LEES AND GENTLEMEN,

I beg to submit my Annual Report on the work of the various Departments under the direction of the Health Committee for the year 1916. The absence of so many members of the permanent staff on military duty, and the lack of assistance has considerably delayed its production, and the size and contents have also been considerably curtailed, partly with a view to economy and partly owing to the difficulty of correctly calculating many of the statistics. There is no method of estimating with any degree of accuracy the populations of the various wards at the present time, and in consequence the few ward statistics given have been calculated on the pre-war population.

I am glad to be able to report that except for measles, fortunately of a mild type, the town has been very free from infectious disease throughout the year. I take this opportunity of tendering my thanks to the Members of the Health Committee for their support and confidence, and to the Staff for their willing co-operation and assistance.

I have the honour to remain,

Your obedient Servant,

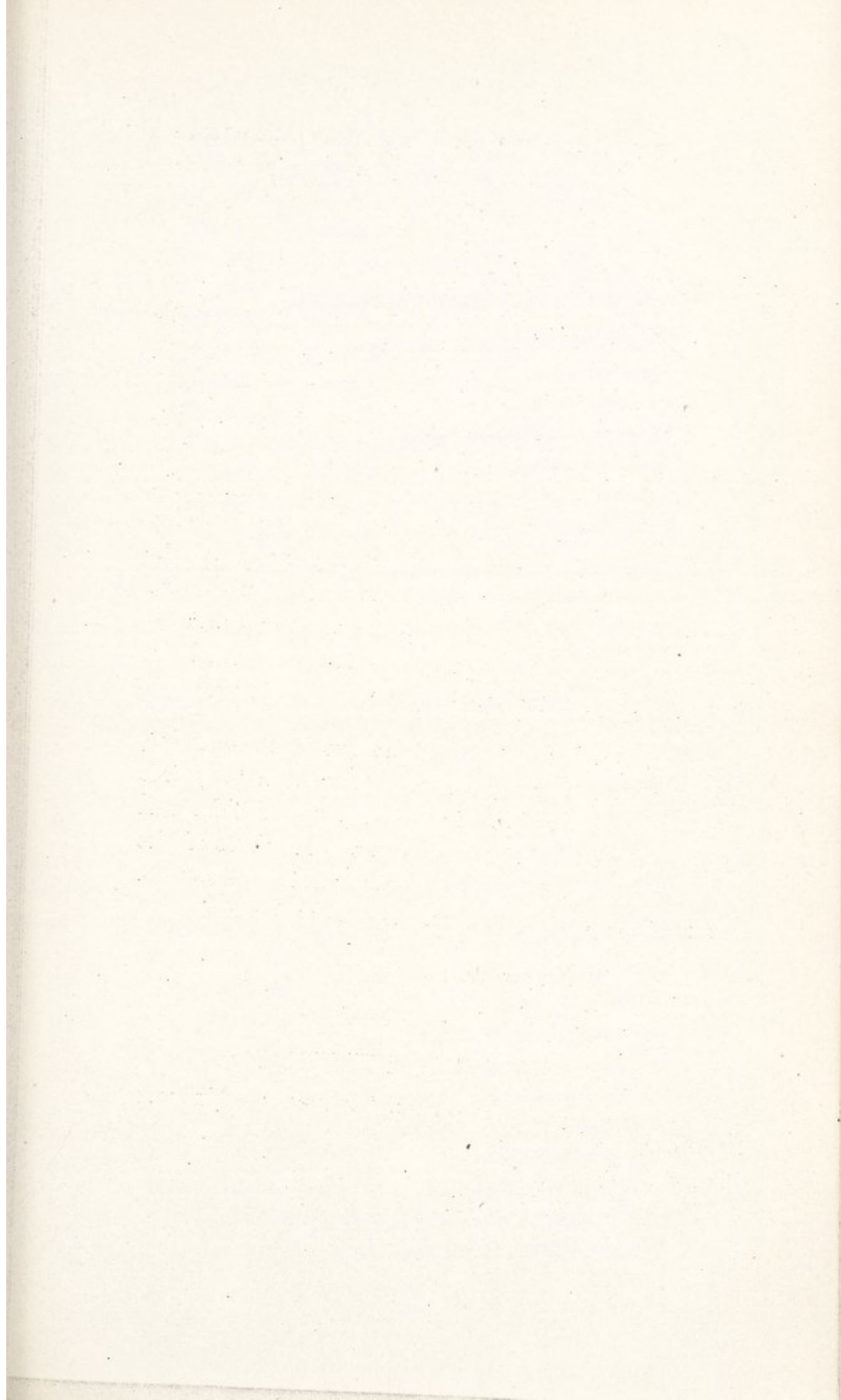
JAMES B. WILKINSON,

MEDICAL OFFICER OF HEALTH.

Health Office,

Town Hall,

November 17th, 1917.



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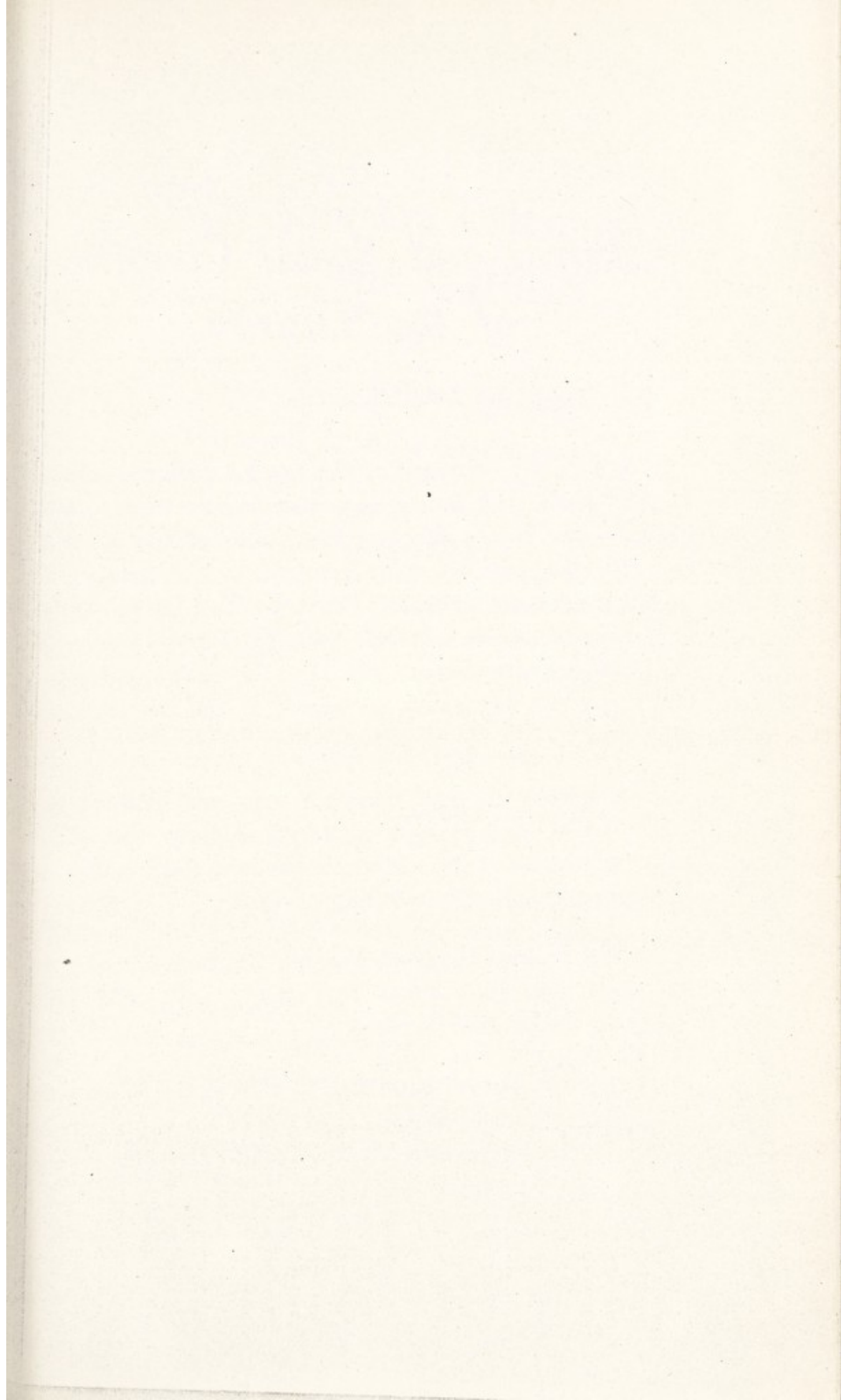
## *Annual Report.*

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The General Regulations in regard to the Annual Report of the Medical Officer of Health have been issued in former Reports, and with the view of limiting the size of the Report as much as possible, it is this year undesirable to repeat them.

Owing to the withdrawal of men from the town for Active Service, there has during the past year been a great diminution of the population. Under normal circumstances the population would be something over 150,000 persons. The Registrar-General has reduced this to an estimated population of 136,126 for deaths. There is no military camp in the town, and though several of the works in the town are engaged in the manufacture of munitions, there has been no large influx of persons for this work.

The Report has been curtailed as much as possible, with the exception of the tables, which have been compiled as usual, in order to have a complete record for comparison with future years. Under most of the headings a bare statement of the work done is all that is given.





— A. —

## *Natural and Social Conditions of the District.*

---

The natural conditions of the town remain the same as in past years, and it is unnecessary to recapitulate them. The principal points affecting the health of the town are the elevated position with exposure to the strong rain-bearing south-west winds and the consequent heavy rainfall. This damp atmosphere, when combined with the smoke and dust, have a detrimental effect on Bronchial and Heart diseases, which contribute so largely to the death-rate of the town.

Throughout the year, there has been very little distress in the town, and though commodities have cost more, wages have been high, and there has been little or no lack of employment for those willing to work.

In the General Hospital, the year has been one of great stress, no less than 1,884 In-Patients and 6,522 Out-Patients having been treated.

The well-equipped operating theatre at the Workhouses Infirmary has also been made good use of for many persons unable to obtain admission to the General Hospital.

— B. —

## *The Sanitary Circumstances of the District.*

---

### WATER SUPPLY.

The supply of water throughout the year was ample, and no complaints have been received as to its purity, with the exception of one or two of some peaty deposit, due to an alteration to the service pipes.

At the close of the year the Reservoirs contained 1,910,550,000 gallons, or  $28\frac{1}{2}$  weeks' supply, compared with 1,808,890,000 gallons, and 25 weeks' supply at the close of the year 1915.

### SEWERAGE.

There are no rivers passing through the town, and all the streams have been sewerized.

The general arrangement of the Sewers and the construction of the Sewage Works have not been altered, and they need not be re-described.

As regards the Sewage Works, their condition has been very satisfactory during the year, the effluents have shown a great improvement, being practically all under the standard of the Rivers Board. All the sewage, except during very heavy storms, is treated. Owing to the absence of the Analyst on Military duty, the results of the daily analyses have not been tabulated.



The Grossmann Plant for drying the sludge and extracting the grease has worked very satisfactorily, though, owing to the high price of coal and coke, and the increased cost of repairs, the working expenses have been high. It is difficult, however, to say that any other method would have been more economical. The alternative method of carting the sludge away would have proved equally if not more expensive, and during the past winter would have been almost impossible to have carried out. All the grease and manure have been disposed of.

### CLOSET ACCOMMODATION.

The work of converting the Pan Closets to Water Closets has been almost entirely suspended during the year, and also the issue of notices for the provision of additional closet accommodation, but the inspection, cleansing and removal of blockages has been carefully attended to.

The various types of closets in the town at the close of the years 1915 and 1916 are as follows :—

	Dec., 1915	Dec., 1916	Increase	D'crease
Water Closets ... ..	6,892	6,906	14	—
Waste Water Closets ... ..	24,443	24,486	43	—
Latrines ... ..	2,916	2,940	24	—
Pan Closets ... ..	3,378	3,376	—	2
Total ... ..	37,629	37,708	81	2

Net Increase of Water Closets—79.

There are no privy vaults in the town. The contents of the remaining pan closets are mixed with shoddy dust, and

sold as manure, for which there has been considerable demand.

Offal from Butchers, Fishmongers, &c., is regularly collected, a small charge being made.

### SCAVENGING.

The Local Authority, by their own staff, undertake the removal of ashes and house refuse, and this, in spite of labour and horse difficulties, has been efficiently performed.

The substitution of ash-cans for the open ash-pits has been temporarily suspended, except where a nuisance exists.

At the close of the year there were in the Borough 1,359 ash-pits, and 29,026 ash-cans, compared with 1,624 and 28,784 at the close of the year 1915.

The ash-pit and ash-can refuse is chiefly burnt at the destructors.



## *Premises and Occupations which can be controlled by Bye-Laws and Regulations.*

### COMMON LODGING HOUSES.

Bye-Laws for the control and regulation of these premises are in force, and the houses are supervised by a Special Officer of the Police Force, and are under the control of the Watch Committee. The accommodation is as follows :—

No. of Registered Lodging Houses ...	15
Total accommodation at night... ..	1,158
Number of Persons occupying them ...	226,221
Average occupation per night ... ..	620

The average occupation per night has decreased by about 106.

All Common Lodging Houses are annually licensed. There is one less Lodging House than in the previous year.

The largest Lodging House has accommodation for 285 persons, all males.

Eight Lodging Houses have accommodation for females, of which two take only females. These two Lodging Houses have together about 40 beds.

### HOUSES LET IN LODGINGS.

In addition to the Common Lodging Houses, there were at the close of the year 162 houses let in Lodgings, a decrease of 9 from the previous year, and 706 furnished rooms, compared with 740 in 1914. These houses are registered as soon as it is known they are used as such.

They could be kept in a much more satisfactory condition if power could be obtained to require registration before use, and of refusal if unsatisfactory or improperly used.

These premises are all inspected by the District Inspectors at least once a month, and several of them more frequently. 8,608 visits were made to them, and 189 notices were served for the removal of defects, and 182 of these notices have been complied with. Those not complied with were for broken walls, defective roofs, defective slop-pipe, and defective ventilation; defects for which the landlord, and not the tenant, is responsible.

### CELLAR DWELLINGS.

There are very few of these dwellings in the town, only 16 in all, and containing 35 rooms. Some of these occupied are allowed to remain so on the understanding that they are not to be let to persons having young children.

### OFFENSIVE TRADING.

There are only 33 premises which come under this heading in this town, and most of them small places. This is a decrease of 4 from the previous year. 628 visits of inspection have been made, and 15 notices for defects have been served, all of which have been complied with.

The following is a list of these trades :—

#### OFFENSIVE TRADES, 1916.

Tripe Boilers	-	-	-	-	13
Marine Stores	-	-	-	-	9
Grease Works	-	-	-	-	5
Gut Scrapers	-	-	-	-	3
Hide and Skin Depôts	-	-	-	-	2
Soap Boiler	-	-	-	-	1
Total	-	-	-	-	<u>33</u>



## SCHOOLS.

The Medical Officer of Health is also Superintendent Schools Medical Officer, and a separate report on the work during the year in connection with the Schools has been issued.

Besides the Medical Officer of Health, the School Medical Staff consisted of a Lady Assistant Medical Officer, and a Male Assistant Medical Officer and three School Nurses.

The following is a Summary of the work :—

No. of Infrants examined ... ..	1,944
No. of eight year olds examined ... ..	2,048
No. of Leavers examined ... ..	2,356
No. of Ailments treated at the Clinic... ..	1,144
No. of School Exemption Certificates given.	3,866
No. of Certificates, fitness to attend School..	772

## FOOD SUPPLIES.

## (a) MILK.

There were 107 Cowsheds and 47 Farm Dairies in the Borough at the close of the year. The number of Dairies is four less than in the previous year.

These premises are under the supervision of the Food Inspector, and 159 visits have been paid to them; 15 notices have been served for various defects, and 13 of these had been complied with at the close of the year.

It has only been necessary to serve one notice for a defective drain.



All the Cowsheds in the Borough have now at least 600 cubic feet of air space for each animal. No outbreak of disease has been attributed to the Milk supply.

There is one Depôt in the Borough where the milk is sterilized, cleansed and cooled before it is distributed to the consumers.

During the year 41 new retail milkshops have been registered, and 44 discontinued, making a total of 444 in the Borough, a decrease of 3. About 467 visits of inspection have been paid to them.

In addition to the visits to these shops, 202 visits have been made to the premises where Ice Cream is being manufactured.

It was not necessary to serve any notices for defects at either of these premises.

#### (b) BAKEHOUSES.

In Table 26 are tabulated the statistics in connection with these premises. The use of 10 has been discontinued during the year, and 11 new ones have been registered, making a total of 388, an increase of one. About 418 visits have been made in connection with these premises, and it was found necessary to serve 14 notices for the removal of defects, 13 of which have been complied with. There are 24 registered cellar bakehouses in the Borough.

About 200 are in connection with very small shops, and the baking is done in the living room or kitchen.

#### SLAUGHTER-HOUSES.

During the year one Slaughter-house license has lapsed, leaving 43 on the Register. All Slaughter-houses in the

Borough are annually licensed and before the license is granted each place is inspected by the Medical Officer of Health.

They are all constantly under the inspection of the Chief Inspector and the Assistant Meat Inspector. The total visits during the year was 2,873, and 12 notices were issued and complied with for various defects.

11 tons 16 cwt. of unsound or diseased food and offal was condemned and destroyed.

Three prosecutions were instituted against vendors of unsound meat, the condition of this being so bad that each one was sent for two months' hard labour without the option of a fine.

There is no public abattoir in the town.

In addition to the visits to the Slaughter-houses, Bake-houses, and Dairies, visits have been made to the following food shops in the town :—

Visits to Meat Shops ... ..	9,266
„ Fish Shops .. ...	3,102
„ Fruit and Vegetable Shops ...	6,147
„ Ice Cream Vendors ... ..	198
„ Markets and Cattle Wharves ...	1,189

#### SALE OF FOOD AND DRUGS ACT.

During the year, 194 samples of Food have been formally purchased for analysis, and 184 were found to be genuine, except for the fact that two samples of Irish Butter sold as such contained more than 16 per cent. of water. Notice, however, was posted in the shop that the butters contained from 16 to 24 per cent. of water.



Ten samples of milk were found to be not genuine, and the particulars and action was as follows :—

No. 9 was deficient in fat to the extent of 43 per cent.

No. 10 deficient in fat to the extent of 20 per cent.

No. 13 deficient in fat to the extent of 17 per cent., and contained 12 per cent. of added water.

The vendors of these samples were small shopkeepers, and only sold from two to four quarts per day. They were summoned to appear before the Health Committee and cautioned as to future procedure.

Control samples were purchased subsequently from the farmers who supplied them, and the sample purchased (No 19), corresponding to No. 9, was found to be deficient in fat to the extent of 33 per cent. The farmer appeared before the Health Committee, and agreed to pay a fine of £1 1s. 0d.

No. 15 contained  $12\frac{1}{2}$  per cent. of added water. The explanation given was that the vendor, a farmer, purchased a quantity of milk from another farmer, which he had reason to believe was not genuine. He was cautioned by the Health Committee, and agreed to pay a fine of £2 2s.

No. 53 deficient in fat to the extent of 20 per cent.

No. 54 deficient in fat to the extent of 10 per cent.

No. 62 contained 9.6 per cent. of added water.

The vendors of these three samples were small shopkeepers, and appeared before the Health Committee and were cautioned.

No. 96 contained 9.5 per cent. of added water, and

No. 97 contained 7 per cent. of added water, and was deficient in fat to the extent of 34 per cent.

The vendor of these samples was prosecuted, and fined by the Magistrates 40s. and costs in each case.

The samples of Baking Powder, Custard Powder, and Cream of Tartar were purchased as a result of a request received from the Chief Inspector of Foods. All except five were found to be genuine, and contained nothing injurious.

Sample			Grains of Arsenic per lb.
178 (Baking Powder)	contained less than	1/100	
186 (Baking Powder)	" "	1/100	"
189 (Custard Powder)	" "	3/100	"
190 (Baking Powder)	" "	1/100	"
194 (Cream of Tartar)	" "	1/100	"

It was not considered necessary to take any action in these cases.

The following is a summary of the various samples purchased :—

#### SUMMARY OF SAMPLES OF FOOD ANALYSED DURING 1916.

No. of Samples.	Description of Samples.	Genuine.	Not Genuine.	Magistrates.	Summoned before Com. and Cautioned
71.	Milk.....	61	10	2	8
15.	Lard .....	15	—	—	—
1.	Pepper .....	1	—	—	—
5.	Coffee .....	5	—	—	—
38.	Butter .....	38	—	—	—
4.	Rice .....	4	—	—	—
4.	Cheese .....	4	—	—	—
16.	Flour .....	16	—	—	—
1.	Pearl Barley .....	1	—	—	—
10.	Cream of Tartar ..	10	—	—	—
15.	Baking Powder...	15	—	—	—
2.	Skim Milk .....	2	—	—	—
12.	Custard Powder..	12	—	—	—
194		184	10	2	8
INFORMAL SAMPLES.					
9.	Milk.....	9	—	—	—
4.	Butter .....	4	—	—	—
207		197	10	2	8



## HOUSING.

Various circumstances, engendered by war, have caused a considerable diminution of the usual work undertaken for the improvement of housing conditions. The absence of members of the staff, the difficulty of getting more than the absolutely necessary repairs carried out, the extra liabilities of property owners, have all limited the activities in this respect.

During the year, 1,551 houses have been thoroughly examined, and action taken for securing the necessary repairs, and 625 others were inspected on account of various complaints.

The number of new houses completed during the year was only 16. A glance at Table No. 1 will show the great diminution of house building in recent years. Only three houses were reported to the Health Committee during the year. One of these was improved by the demolition of some old buildings at the back, and the consideration of the other two was adjourned *sine die*.

The following are the houses dealt with and the action taken :—

28, Bottom-o'th'-Moor—Buildings in rear to be demolished and exit provided.

30 and 32, Bottom-o'th'-Moor—Adjourned *sine die*.

## GENERAL SUMMARY.

No. R'ported	No. of Houses Closed		No. Ad- journed	Plans to be Sub- mitted	No. De- moli'ed	Houses Demolished	
	By L. A.	By Owner				By Owner	By L. A.
3	—	—	2	1	—	—	—



## CLASS OF HOUSES CLOSED.

No. Closed	Through.	Single.	Under Dwellings
—	—	—	—

The following is a Summary of the houses which were closed as dwellings during the year 1916.

## HOUSES VOLUNTARILY CLOSED.

Total Number Closed.	NATURE OF HOUSE.			REASON FOR CLOSING.
	Through	Single.	Back to Back	
24	12	12	0	14 for Cotton Mill Extension. 7 for Iron Works Extension. 3 Converted into a Marine Store

## FACTORIES AND WORKSHOPS ACTS.

FACTORIES.—Smoke Observations of the Mill Chimneys and Inspections of the Mill Reservoirs are carried out by the District Inspectors. Defective sanitary conditions reported by the Factory Inspectors have also been dealt with.

WORKSHOPS.—There were at the close of the year 537 workshops on the Register, the use of 11 having lapsed and 21 new ones registered. 177 Notices have been served for various defective conditions during the year. The nature

of these, and other particulars, are recorded in Table No. 25. The following is a list of the Workshops which are registered in the Borough:—

Bakers...	9	Machine Brokers .....	4
Blacksmiths .....	6	Mackintosh Manufacturers ..	1
Blind Manufacturers...	2	Mantle Makers .....	7
Blind Women's Industry ...	1	Marine Stores .....	3
Bookbinders .....	2	Milliners .....	65
Bottlers (Beer) .....	2	Opticians .....	1
Brush Makers .....	2	Paper Bag Makers .....	1
Cabinet Makers.....	6	Pattern Makers .....	1
Carriage Builders ...	1	Picture Framers .....	3
Cloggers .....	54	Plumbers .....	6
Coffin Makers .....	2	Photographers .....	1
Confectioners .....	50	Roller Coverers .....	1
Coopers .....	2	Saddlers .....	2
Cotton Waste Dealers .....	17	Scale Makers.....	2
Curriers .....	3	Shirt Makers .....	5
Cycle Makers.....	3	Shoe Makers .....	56
Drapers (Underwear and Skirts) .....	4	Skip Makers .....	6
Dress Makers .....	81	Straw Workers .....	1
Dyers .....	1	Sundry Trades .....	8
Drysalters (Chemists) .....	5	Tailors.....	42
Electro-Platers .....	2	Tinsmiths ...	9
French Polishers .....	1	Umbrella Manufacturers .....	2
Heating Apparatus Manufac- turers .....	1	Upholsterers .....	2
Hosiery & Stocking Knitters	21	Watch Makers .....	4
Ice Cream Manufacturers ...	1	Wire Workers ..	1
Joiners .....	8	Wheelwrights... ..	5
Laundries .....	9	Wood Carvers .....	1
		Wringing Machine Manufac- turers .....	1



— C. —

## *Sanitary Administration of the District.*

---

### STAFF.

On the following page is a list of the permanent Staff of the Health Department and of the School Medical Department, which is so closely allied.

The Medical Officer of Health is also Superintendent School Medical Officer, and Chief Tuberculosis Officer.

The Assistant School Medical Officers are usually entirely employed in School Work.

The war has naturally called for service nearly all those members of the Staff who are of military age.

Both Assistant Medical Officers, all the Clerks, except the Chief Clerk, and two of the Inspectors, and one School Nurse, are absent on this duty.

The two Lady Inspectors, Miss Smith and Miss Rothwell, who were appointed in 1902, to undertake the Visitation of Infants and give instructions in Infant Welfare, resigned in September. During the 14 years in which they have been on the Staff, the reduction of Infant Mortality has been from an average of 180 to an average of 129 per 1,000 births, and their influence and instruction has, to a very great extent, been instrumental in securing this reduction. This result testifies the good and excellent work which they have given while in the service of the Corporation.



The Permanent Staff of the Department is as follows:—

Chief Inspector of Nuisances—

†\*GEORGE WINTERBOTTOM.

Assistant Meat Inspector—

GEORGE T. WINTERBOTTOM.

Sanitary Inspectors and their Districts—

NAPOLEON BRIERLEY—St. Peter's and Clarksfield Wards.

W. A. HOPKINSON—Werneth, Hollinwood, and St. Paul's Wards.

JAMES BURNETT—Hartford and Westwood Wards.

\*WILLIAM CLARKE—St. Mary's and Coldhurst Wards.

ELSON JACKSON—Mumps, St. James's, and Waterhead Wards (on Military Service).

Smoke Inspector—

†\*FRANK TAYLOR (on Military Service).

Inspector for the Factories, Workshops, Bakehouses, &c.—

\*WM. G. WRIGHT.

Health Visitors—

NURSE FELTON, NURSE SYKES, MISS ANDREW (resigned).

School Nurses—

NURSE BILLINGTON, NURSE LOIS PUGH (on Military Service),  
NURSE WILLIAMS, NURSE LUCY PUGH.

Chief Clerk—

JOHN WHIPP.

Assistant Clerks—

\*H. BOARDMAN, \*H. SCHOLEFIELD, W. DAWSON and  
J. CROSDALE (all on Military Service).

Disinfectors—

W. OAKES. G. STRINGER.

Matron Westhulme Hospital—

MISS PARKER.

Assistant Schools' Medical Officer—

ANNIE MOONEY, L.S.A., D.P.H.

T. F. BAMFORD, M.B., Ch.B., D.P.H.

Assistant Tuberculosis Officer—

CECIL BERRY, L.R.C.P., and S.Ed., and D.P.H. (on Military Service).

Assistant Medical Officer of Health—

A. L. DYKES, M.D., D.P.H. (on Military Service).

Medical Officer of Health, Superintendent Schools' Medical Officer, and  
Tuberculosis Officer—

JAMES B. WILKINSON, M.D., C.M., D.P.H., F.C.S.

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\* Sanitary Inspector's Certificate of the Royal Sanitary Institute.

† Meat Inspector's

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## REPORT OF THE CHIEF INSPECTOR FOR THE YEAR 1916.

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TO THE MEDICAL OFFICER OF HEALTH.

SIR,—I have pleasure in presenting to you my Report of the work done by your Staff of Inspectors during the year.

During the year we have had five cases of Contagious Diseases, viz.:—

(A) Four cases of Mange.

(B) One suspected case of Rabies.

The animals affected with Mange were all Horses; one Dog was destroyed as being suspected of Rabies.

During the year 23,317 visits have been paid to premises where food is prepared or exposed for sale.

The amount of diseased or unsound food destroyed during the year amounts to nearly twelve tons. Over ten tons have been surrendered by butchers. In three cases seizures of diseased meat were made, and the three offending butchers were each afterwards committed to prison for two months' hard labour.

During the year 98 cases of Tuberculosis in animals have been reported, in addition 41 cases were found by the Inspector, making a total of 139 cases. Of these 139 cases 99 cattle and 40 swine were affected.

We began the year with 44 Slaughter-houses on the Register. One lapsed during the year owing to the premises being unoccupied. It has been found necessary to serve 12 Notices for the abatement of nuisances, all of which were complied with.



The Table relating to Cowsheds shows that all these places have been made to comply with the requirements of this department so far as air space. I should like to see the Bye-laws amended so as to compel the cleansing of the animals.

A good many farmers never clean their animals, with the result that the milker conveys from the exterior part of the animal a great amount of dirt and dung into the milk. A custom of many farmers, just previous to milking, is to draw back the manure from about the animals' hind feet and scatter a fresh supply of shoddy. The scattering of this shoddy causes a great amount of dust to arise, some of which settles on the animal, this being carried to the milk by the milker.

During the year 194 samples of Food have been purchased under the Food and Drugs Acts, in addition 13 samples of Food were purchased informally, a total of 207 samples, which were submitted for analysis.

The number of Smoke Observations taken during the year amounted to 1,691, as compared with 1,319 taken during the previous year. The limit was exceeded in 17 cases; these 17 cases were dealt with as follows :—

- (A) 5 were dealt with by the Magistrates.
- (B) 1 was cautioned
- (C) 2 were served with a legal notice to abate the nuisance.
- (D) 8 were adjourned for three months, and one for two months, with the understanding that nothing further would be heard of the charge if they did not exceed the limit again during the adjournment.



The Inspection of the Borough for the purpose of ascertaining if any nuisances existed has resulted in 3,388 Notices being served, in addition 71 Notices were served to substitute Dust-bins in lieu of Ash-pits.

In connection with the above Notices, 11,126 re-visits were paid.

The substitution of Dust-bins in lieu of Ash-pits has only been dealt with on a very small scale during the year. In cases only where the owner desired, or where the Ash-pit was dilapidated, have Bins been substituted. During the year 52 Ash-pits have been demolished and 134 Dust-bins substituted.

From the 18th November, 1909, when we began this work, 6,585 Ash-pits have been demolished, and 16,763 Dust-bins substituted at a cost of £6,273 7s. 0d. to the Corporation.

During the year four additional Closets have been provided for houses which had insufficient closet accommodation. In the past eight years 1,724 additional closets have been provided for 4,280 houses which previously had 1,614 closets. In addition, two closets have been provided in connection with workshops.

HOUSE INSPECTION.—During the year 1,551 houses have been inspected under the Town Planning Act. In the previous year 3,761 houses were inspected. A notice to cleanse was served on 190 householders, of these 153 had complied with the notice at the end of the year. The number of houses found structurally defective amounted to 336, of these 257 were repaired during the year. Only seven houses were found overcrowded, for which Notices were served and six were complied with.

HOUSES LET IN LODGINGS.—During the year 8,606 visits were paid to Furnished Rooms. As a result of these Inspections 189 Notices were served to remedy various nuisances, of which 182 were complied with. The custom is to visit some of these premises once per month, but there are others where it is necessary to visit at shorter intervals. The approaches to some of these rooms are far from being satisfactory, the staircases and passages being very dark.

INFECTIOUS DISEASES.—The number of visits to Infectious Diseases amounted to 723, as compared with 1,456 visits in the previous year. The visits to cases of Phthisis numbered 158, being an increase of 42 as compared with the previous year. The visits to cases of Phthisis are made in order to arrange for disinfection.

In conclusion, I desire to express my thanks for the great assistance I have received from all the members of your staff, and also to yourself, for your confidence and support.

I beg to remain,

Yours faithfully,

GEORGE WINTERBOTTOM,

CHIEF SANITARY INSPECTOR.

### SMOKE NUISANCE.

The observations of the amount of black smoke emitted from the factory chimneys are taken by the District Inspectors during the absence of the Smoke Inspector. A larger number have been taken than in the previous two years.



The following Table shows a comparison of the number of observations, &c., during the past 10 years :—

### PERCENTAGE OF BLACK SMOKE.

Year.	No. of Observations	No Black Smoke	Under 2 Minutes	2 to 4 Minutes inclusive	Over 4 Minutes	No. Over the Limit.	Pro-secutions	Per cent. of Pro-secutions
1907	1256	46.09	38.05	13.93	1.91	36	18	50
1908	1427	47.79	37.00	13.03	2.17	54	26	48
1909	1978	49.40	36.1	13.4	1.1	46	22	48
1910	1730	51.1	30.2	16.9	1.6	39	22	56
1911	1894	59.4	26.1	18.9	0.48	9	3*	17
1912	1547	45.2	31.4	21.8	0.9	23	5	21
1913	1575	46.2	28.8	24.1	0.9	31	12	38
1914	1081	44.5	41.1	13.3	1.1	21	7	33
1915	1319	44.9	43.8	10.0	1.4	27	7	26
1916	1691	34.3	51.5	13.2	0.09	17	5	29

\* In five other cases the Representatives agreed to be dealt with by the Health Committee and were fined £1 in each case.

Owing to the difficulty experienced by the mill owners in obtaining suitable firemen, a usual procedure has been to adjourn the consideration of the case for two or three months, in order that further observations may be taken. Statistical details will be found in Table No. 28 and subsequent ones.

### MEAT AND FOOD INSPECTION.

A summary of the work under this head will be found in the Tables at the end of this Report, and further details in the paragraphs relating to the various food supplies.



## WOMEN INSPECTORS.

In Table 24 will be found a summary of the work carried out during the past year by the three Women Inspectors. From this Table it will be seen that houses have been visited where 2,064 births have occurred, and 1,088 subsequent visits have been paid to these houses.

Further particulars of the work carried out in connection with infant welfare will be found in a later section.

## PUBLIC ACTS AND BYE-LAWS.

The special Acts of Parliament and the Bye-laws in force in Oldham remain the same as in the previous year.

## — D. —

## *Prevalence and Control over Acute Infectious Diseases.*

The following Table gives the number of cases of Infectious Disease notified and the deaths from these diseases :—

DISEASE.	NOTIFICATIONS.	DEATHS.
Smallpox ... ..	1 .....	0
Scarlet Fever ... ..	149 .....	3
Erysipelas ... ..	102 .....	2
Diphtheria ... ..	142 .....	30
Enteric Fever ... ..	5 .....	2
Puerperal Fever ... ..	9 .....	5
Tuberculosis... ..	553 .....	256
Measles and German Measles ... ..	1443 .....	29
Cerebro Spinal Meningitis... ..	— .....	—
Infantile Paralysis ... ..	1 .....	—
Ophthalmia Neonatorum ... ..	38 .....	—

The total number of Deaths from the seven principal Zymotic Diseases—viz., Smallpox, Scarlet Fever, Enteric Fever, Diphtheria, Measles, Whooping Cough, and Diarrhœa during the year was 144, equal to a death rate on the estimated population of 1·06 per 1,000 of the population. The above number is 8 less than in the previous year.



For purposes of comparison the following statistics are given, showing the attack rates or the number of the principal Notifiable Diseases per 1,000 of the population :—

	Scarlet Fever.	Diph- theria.	Enteric Fever.	Puerperal Fever.	Erys- pelas.
England ... ..	2.14	1.51	0.16	0.06	0.54
Lancashire ... ..	3.15	0.94	0.24	0.06	0.57
Liverpool ... ..	2.94	1.51	0.10	0.07	0.79
Bolton ... ..	1.84	0.67	0.23	0.03	0.48
Manchester ... ..	1.89	0.94	0.15	0.17	0.46
Salford ... ..	2.03	0.96	0.20	0.06	0.54
Oldham .. ..	1.09	1.03	0.04	0.07	0.75
Blackburn ... ..	1.27	0.44	0.12	0.03	0.54
Preston .. ..	3.57	2.04	0.41	0.03	0.55
Burnley... ..	1.77	0.96	0.35	0.02	0.83
Rochdale ... ..	0.70	2.79	0.13	0.02	0.41

### SMALLPOX.

Only one case of this Disease was notified, and though the closest enquiries were made, not the slightest trace could be ascertained as to the source of the disease. The woman did not follow any employment, and had not been out of the town or had had any visitors from outside. The disease was of a very severe type (semi-confluent), but the patient fortunately recovered. The nature of the disease was recognised in a very early stage, and at once reported. Every person who had been in contact, comprising members of four families, consented to be vaccinated, with the result that no further cases occurred.



## SCARLET FEVER.

Of this disease only 149 cases were notified, compared with 530 in the previous year, and there were only three deaths, compared with 17 in 1915.

## DIPHTHERIA.

During the year 142 cases were notified, and 29, or 20·4 per cent., of these cases died.

In the year 1915, 86 cases, and in the year 1914, 164 cases were notified.

The death rate for this disease for the town was 0·24, for the 96 large towns the average was 0·15. Enquiries are made respecting each case, and an endeavour made to secure good isolation, but the disease appears to show a general tendency to increase in prevalence.

## ENTERIC FEVER.

Only five cases of this disease were reported during the year. This is the lowest number of notifications of this disease ever recorded in one year, the lowest number previously being 11 in the year 1915.

## PUERPERAL FEVER.

Nine cases were notified and five of these died. Full enquiries were made in connection with each of these cases.

## ERYSIPELAS.

One hundred and two cases were notified, and there were two deaths, one in a child aged ten and the other in an elderly person. The great majority of the cases were of a very trivial nature.

## CHICKEN POX.

This disease is not notifiable. About 240 cases came to the knowledge of the Health Department.

## MEASLES.

There was a considerable epidemic of Measles, especially towards the close of the year. The great majority of the cases were of a mild type. The total deaths numbered 29, of these 26 were of children under the age of five years.

The following figures indicate the numbers notified :—

	Measles.	German Measles.
Notified by Doctor.....	1042 .....	37
Notified by Parents ...	329 .....	0
Not Notified .....	35 .....	0
	<hr/> 1406	<hr/> 37

## WHOOPIING COUGH.

The number of cases of this disease which became known to the Health Department was about 240, and there were in the Borough 48 deaths; 46 of which were in children under the age of five years. Among the children examined in connection with Tuberculosis at the Dispensary, a large proportion owed the starting of the disease to an attack of Measles or Whooping Cough.

The following Table shows the prevalence of these various diseases in the several schools so far as reported by the teachers :—



SCHOOL	Scarlet Fever	Diphtheria	Whooping Cough	Chicken Pox	Measles
Alexandra Rd. Council	1	...	...	1	32
Beever Street "	2	1	9	4	37
Clarksfield "	11	4	3	9	59
Derker "	13	1	17	1	62
Freehold "	9	6	14	3	87
Hathershaw "	3	6	17	1	9
Higginshaw "	8	1	11	1	41
Hollins "	...	...	8	2	8
Hollinwood "	4	...	45	20	50
Northmoor "	1	...	...	23	14
Richmond St. "	...	7	...	...	1
Roundthorn "	3	25	4	1	52
Scottfield "	...	...	6	3	...
Smith Street "	1	2	12	2	11
Waterhead "	1	1	2	...	15
Waterloo "	2	1	1	2	6
Watersheddings "	7	...	6	2	16
Wellington St. "	3	...	12	11	4
Werneth "	10	3	11	44	25
Westwood "	5	8	7	11	2
Christ Ch., Glodwick.	1	1	7	...	22
Coldhurst Church	2	1	1	...	6
Moorside "	1	1	...	...	3
Northmoor "	4	...	...	2	19
St. Andrew's "	...	1	...	...	1
St. Mark's "	...	1	4	1	62
St. Mary's "	2	2	6	32	5
St. Paul's "	1	1	13	10	1
St. Peter's "	...	3	...	...	...
St. Stephen's "	1	...	...	4	6
St. Thomas' "	1	2	6	25	3
Waterhead "	...	2	1	...	28
Dunbar Street R.C.	...	...	3	...	2
St. Anne's R.C.	2	2	4	...	32
St. Mary's R.C.	2	1	2	...	22
St. Patrick's R.C.	1	4	2	1	3
Deaf Mutes' School	...	...	...	...	...
Blind School	...	...	...	...	...
Chaucer Street S.S.	1	...	2	...	2
Totals .....	103	88	236	216	748

## CEREBRO SPINAL MENINGITIS.

No notification of this disease was received during the year, but the death of a young child was certified as due to this cause. The same child had been notified a few days before as suffering from Tubercular Meningitis, and from the history and course of the illness this was in all probability a correct diagnosis.

## OPHTHALMIA. NEONATORUM.

Thirty-eight cases were notified during the year. Every case was visited, most of them by the Medical Officer of Health, and measures taken to secure proper medical attention.

## INFANTILE PARALYSIS (POLIOMYELITIS).

One case of this disease was notified during the year. The case was not fatal, but paralysis of the right arm and leg supervened.

## MEASURES ADOPTED FOR THE PREVENTION OF THE SPREAD OF INFECTIOUS DISEASE.

The measures taken under this head vary little from those of previous years, when they were fully enumerated, and consisted mainly in securing proper isolation either at home or in hospital, disinfection, and especially of the quarantine of children in contact.

The Hospital Accommodation available is as follows :—

WESTHULME HOSPITAL.—98 beds for various infectious diseases, and 30 beds for observation cases of Tuberculosis of the Lung. Two hundred and fifteen cases of Infectious Disease, and 131 cases of Tuberculosis were admitted during the year.



STRINESDALE SANATORIUM.—30 beds for early cases of Tuberculosis of the Lung. Eighty seven cases were admitted during the year, including 11 cases from outside Oldham.

CINDER HILL HOSPITAL (Chadderton, Crompton, and Royton Joint Hospital Board).—Cases of Smallpox are sent to this Hospital, and an agreement has been entered into for Oldham to share the accommodation provided in the new Hospital, which is now completed.

Antitoxin is available for urgent or night cases of Diphtheria, and a supply of Antitetanic Serum is also stocked. Facilities are available to all Medical Practitioners for the free examination of Sputum, Diphtheria Swabs, blood for Typhoid tests, and Cerebro Spinal Fluid.

The following specimens were examined :—

	Total.	Positive.
Diphtheria Swabs.....	75	6
Typhoid Tests .....	15	6
Sputum .....	282	53
Cerebro Spinal Fluid ...	1	...
Other Specimens .....	2	...
	<hr/>	<hr/>
Total .....	375	65

— E. —

## *Prevalence of and Control over Tuberculosis.*

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The following is a brief summary of the work in respect to Tuberculosis during the year :—

The total number of primary notifications during the year was 553, compared with 506 in the previous year and 497 in 1914. Nearly all the cases were visited at their homes by the Tuberculosis Nurse, who obtained particulars as regards (a) the history of the illness, (b) possible sources of infection, (c) any insanitary conditions, such as overcrowding, bad ventilation, and lack of cleanliness, and reported these particulars to the Medical Officer, who is also Tuberculosis Officer. Advice was given as to how—(a) to prevent as far as possible the spread of infection to others, and (b) the measures to be taken to secure the best chances of recovery.

A large proportion of the pulmonary cases were subsequently examined at the Dispensary, and those unable to come to this institution were, if necessary, visited by the Tuberculosis Officer at their homes.

The absence of the Assistant Tuberculosis Officer on Military duty since December, 1915, has considerably limited the work in connection with this disease.



The cases seen and examined at the Dispensary during the year were—

Insured Persons .....	463
Non-Insured Adults .....	110
Children .....	527
Total .....	<u>1100</u>

The number of visits paid to the patients' homes by the Nurse totals 821, and about 125 in addition were made by the Medical Officer.

The number of deaths from Tubercular Diseases during the last two years was as follows :—

	1916.	1915.
Abdominal Tuberculosis...	0 .....	1
Tubercular Meningitis ..	23 .....	22
Pulmonary Tuberculosis...	203 .....	203
Other Forms .....	30 .....	41
Total .....	<u>256</u> .....	<u>267</u>

Seventy-six early cases were admitted to Strinesdale from the Borough during the year, and with 13 who were inmates at the commencement of the year, makes a total of 89 Oldham patients who had been treated in that Institution. About 90 more advanced or observation cases were also admitted to Westhulme from the Borough, and several soldiers, discharged from the army on account of Tubercular Disease, were also admitted and received treatment.

The following gives the occupation of the notified case during the year :—

		Number Notified
Cotton Operatives.	Cardroom hands ... ..	32
	Piecers ... ..	7
	Reelers ... ..	7
	Spinners ... ..	37
	Weavers ... ..	7
	Winders ... ..	11
	Other Cotton Operatives ... ..	17
Iron Workers.	Iron Grinders ... ..	5
	Fitters ... ..	7
	Moulders ... ..	4
	Turners ... ..	14
	Other Ironworkers ... ..	13
General Trades.	Bricksetters ... ..	2
	Carters ... ..	5
	Housework ... ..	53
	Shop Assistants, &c. ... ..	24
	General Labourers ... ..	33
	Other General Trades... ..	46
	No Occupation ... ..	80
	Soldiers and Sailors ... ..	7
	Clerks, &c. ... ..	10

The examination of specimens of Sputa is available for all Medical Practitioners in the town.

No. of specimens examined—

Negative, 229 ; Positive, 53 ; Total, 282.



— F. —

## *Other Diseases.*

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### RESPIRATORY DISEASES.

There were 150 fewer deaths from these diseases than in the previous year. This diminution occurred both as regards Bronchitis and Pneumonia. The much smaller population would account for some of the reduction but not the whole of it. The actual numbers were—From Bronchitis 275, Pneumonia 145, Pleurisy 3, and other forms of Respiratory Disease 21. Sixty-eight of these deaths were in children under the age one year, and 134 in persons over 65 years of age.

### HEART DISEASE.

There were 255 deaths from Heart Affection, a slight increase over the previous year.

### DIARRHŒA.

The deaths attributed to this cause were comparatively very few, numbering only 32. Twenty of these were in infants under one year of age, four in children between one and two years, and seven in persons 60 years and upwards. Twenty-four deaths were also ascribed to Enteritis, and 15 of these were in children under one year of age.

### CANCER.

The deaths from Cancer are two less than in the previous year—viz., 192. This number, however, is considerably higher than in any previous year.

## AGE.

Out of the total number of deaths, 325, or 14 per cent., were of children under one year of age; 500, or nearly 22 per cent., of children under the age of five years, and 544, or nearly 24 per cent., in people 65 years of age and upwards.



— G. —

## *Means for Preventing Mortality in Child Birth and in Infancy.*

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### INFANTILE DEATHS.

There has been a considerable decrease this year in the number of deaths of children under the age of one year—viz., 325, instead of 380, and 476 in the year 1914.

This, however, is to a considerable extent accounted for by the much smaller number of births.

The Infantile Mortality rate, which is almost the only correct death rate which at the present time can be estimated, has also slightly decreased, and was 122 per 1,000 births, compared with 126 in the previous year, and an average for the previous 10 years of 137 per 1,000. Though an improvement on previous years, this rate ought yet to be capable of considerable reduction, and the additional efforts in this direction, towards which the increased staff of Health Visitors, as arranged for towards the close of the year, will contribute, and probably tend to secure this desired result. By extending this work to those over one year of age, there will also be a reduction in the loss of children under five years, and many others will be prevented from becoming weakly or crippled children.

The following Table indicates the Infantile Mortalities of other areas for comparison :—

England and Wales...	...	91	per 1,000 births.
96 Great Towns	...	99	"
Lancashire...	...	108	"
Cheshire	...	86	"
Bolton	...	103	"
Oldham	...	122	"
Blackburn	...	119	"
Manchester	...	109	"
Preston	...	110	"
Liverpool	...	116	"
Salford	..	103	"
Burnley	...	151	"
Rochdale	...	103	"

The large increase of illegitimate births which had been prophesied did not take place. In the whole of England and Wales the increase in the number of these births over the previous year was 1,567, in Lancashire the increase was only 45.

In Oldham there were 155 Illegitimate Births registered, compared with 154 in 1915, and 201 in the year 1914, and some of these were born in the Union Hospital, and do not properly belong to Oldham. Out of this number 34 died under one year of age, giving a mortality rate of 219 per 1,000, compared with the rate of 116 per 1,000 births in legitimate children.

A considerable saving of infant life could be effected if these children could be secured suitable homes, or measures taken to assist the mother when help was necessary. In no case is it more true that "the sins of the parent are visited on the children."



There are many infants besides a proportion of the illegitimate ones who might be described as "unwanted babies," who receive so little care and attention that they either find an early grave or subsequently come under the public care in hospital, asylum, workhouse, or prison. It would certainly preserve many lives, and in the long run cost less to take charge of them at an early age, rear them in a healthy manner, and so cause them to become useful and profitable citizens of the country.

The following Table compares the Death rate among infants in the town from certain classes of disease during the six years previous to the employment of Women Inspectors, during the six years after their employment, and during the first six years in which the Notification of Births has been in force, with the present year:—

CAUSE OF DEATH.	Average Death Rate per 1,000 Births, 1896-1901.	Average Death Rate per 1,000 Births, 1902-1907.	Death Rate per 1,000 Births in 1908-1913	1916
Premature Births .....	20·07	21·71	22·36	20·62
Congenital Defects .....	2·77	5·23	3·84	3·37
Atrophy, Inanition & Debility	21·41	17·78	15·89	17·24
Diarrhoea .....	21·06	17·54	20·34	7·50
Other Zymotics ... ..	14·20	13·33	9·78	9·37
Convulsions .....	14·74	10·54	6·88	7·81
Dentition .....	2·87	2·13	1·78	0·75
Tubercular Diseases .....	7·39	4·86	4·02	1·87
Pneumonia and Bronchitis.	38·75	30·70	26·71	25·12
Other Causes .....	36·15	27·59	25·35	28·12
	179·42	150·42	136·95	121·78
Excluding Premature Births and Congenital Defects...	158·6	123·5	110·75	97·86

The following is a summary of the work in connection with Infant Welfare :—

**HEALTH VISITORS.**—There are three Health Visitors, and authority was given towards the close of the year to appoint a fourth. These women visit cases of puerperal fever, measles, whooping cough, chicken pox, etc., and inspect workshops where females are employed. First visits to infants are made as soon as possible after birth when midwives are in attendance, and about ten days after birth if doctors are attending. Re-visits are only made in special cases. During 1916, 3,692 visits were made to 2,604 infants, 320 visits in connection with the deaths of infants, 2,250 visits to cases of infectious disease, and 39 special visits. Cases of Ophthalmia Neonatorum are visited by the Medical Officer of Health or Assistant Medical Officer of Health.

#### CENTRES. (A) MUNICIPAL.

(1) One Municipal Centre in St. James' Free Church School, Manchester Road, where consultations for children up to five years of age are conducted fortnightly by an assistant Medical Officer (lady), assisted by a Health Visitor and two voluntary helpers. Infants under two years old are weighed and examined, and advice is given to mothers. The Centre is also open weekly, apart from consultations under the superintendence of a Health Visitor, assisted by two voluntary helpers and a sewing mistress, for classes in sewing and making infants' garments, cookery, and in infant care and management. The average number of babies weighed was 10, and the average number of mothers 25 at each meeting.

(2) A School for Mothers and Infant Clinic at the Oldham Day Nursery at Overens Street, Lees Road, which



are now under the direction and control of the Medical Officer of Health. A School for Mothers and Infant Clinic are held alternate weeks. An assistant Medical Officer (lady) attends at the infant clinic, and is assisted by the nurse and by one of the Health Visitors. Infants are weighed and examined, and advice is given to mothers. At the school for mothers one of the Health Visitor's gives lectures and instruction. Voluntary helpers also assist.

(3) An Infant Clinic is held at the Bent House School for Mothers, where the babies are weighed and advice given to mothers at fortnightly meetings. An assistant Medical Officer (lady) attends at these clinics. Voluntary helpers assist in the work, and at the school for mothers.

### THE MIDWIVES' ACT.

It was possible to visit only a few of the Midwives, and these visits have usually been made in consequence of some report. Early in the current year, however, measures were approved which will secure in future efficient and regular inspection.

The following is a list of those Midwives who practised in the Borough during the year :—

In the year 1915 there were 25 Midwives who had received training and held certificates, and 35 untrained. In 1916 there were 28 trained and 29 untrained, a total decrease of three. Some of the older ones practice very little.

## LIST OF MIDWIVES.

Name.	Address.	Number of Certificate	Date of Certificate.
Alibone, Beatrice M.....	Lees Nurses' Home ...	32193	Feb. 20/1911 (4)
Billington, Annie .....	21, Stoneleigh Street ..	33601	June 20/1911 (4)
Booth, Elizabeth G. ....	20, Kenwood Street.....	30633	May 3/1910 (4)
*Brooks, Alice .....	52, Sholver Lane .....	812	Jan. 28/1904
Bunting, Mary Ellen...	3, Welbeck Street .....	4650	May 26/1904
Cecil, Elizabeth Ellen ...	2, Coppice Street .....	1951	Feb. 25/1904
Challinor, Elizabeth .....	26, Dickenson Street ...	480	Dec. 17/1903
Corless, Elizabeth Ellen..	177, Lee Street.....	10733	Dec. 22/1904 (1)
Cox, Sarah Ann .....	56, Kirkham Street .....	3354	Mar. 24/1904 (1)
Crabtree, Ellen .....	3, Mitchell Street.....	14797	Feb. 23/1905
Dearden, Mary Alice .....	234, Greenhacres Road ...	9476	Nov. 24/1904 (2)
Denton, Jane Ann .....	556, Oldham Rd., Royton	18831	April 27/1905
Dyson, Mary .....	67, Church Street, Failsworth	164	Nov. 26/1903 (1)
Fox, Frances .....	62, Abbey Hills Road ..	32210	Oct. 29/1910 (4)
Gaskell, Louisa .....	609, Oldham Road, Failsworth	36801	Oct. 28/1912 (4)
Geoghegan, Catherine ...	46, Greenwood Street ...	32218	Oct. 29/1910 (4)
Hall, Martha .....	594, Oldham Road, Ashton	5270	Jan. 1/1914
Hanson, Jane .....	15, Robson Street ...	5759	June 30/1904
Haslam, Alice .....	50, South Hill Street ...	3941	April 25/1904
Heywood, Caroline ...	406, Hollins Road .....	76	Oct. 29/1903
Heywood, Matilda .....	382, Lees Road .....	77	Oct. 29/1903
Hill, Florence .....	331, Manchester Road...	36110	June 18/1912 (4)
Hindley, B.....	279, Waterloo Street ...	42805	Aug. 10/1915 (4)
Hirst, Selina .....	78, Featherstall Road N.	30202	Feb. 21/1910 (4)
Horrocks, Hannah Marie	71, Urmson Street, Hathershaw	5879	June 30/1904 (4)
Hutchings, Margaret.....	46, Sunfield Road.....	11858	Jan. 26/1905 (2)
Jackson, Hannah, .....	75, Wickentree Lane ...	5901	June 30/1904
Jackson, Sarah Jane .....	4, Redvers Street.....	63	Oct. 29/1903 (1)
*Jenkinson, Annie ...	29, Grasmere Road .....	26788	July 23/1908 (4)
Jones, Ann .....	199, Coalshaw Green Rd.	38271	June 16/1913
Kershaw, Ann.....	21, Sholver Lane .....	4505	May 26/1904
*Not practising.			



## LIST OF MIDWIVES—CONTINUED.

Name.	Address.	Number of Certificate	Date of Certificate
Kershaw, Hannah.....	10, Port Street .....	1712	Feb. 25/1904
Laycock, Martha A. ....	39, Bamford Street, Chadderton	30989	June 30/1910 (4)
Mayall, Eliza Ann .....	11, Hesse Street .....	142	Nov. 26/1903
Mills, Mary Ellen .....	235, Ashton Road.....	483	Dec. 17/1903
Moorhouse, Emma .....	111, Redgrave Street ...	29566	Oct. 30/1909 (4)
O'Hara, Ellen.....	31, Jackson Street .....	28117	Feb. 15/1909 (4)
Radakin, Catherine .....	13, Davies Street .....	79	Oct. 29/1903
Reeves, Sarah Elizabeth.	37, Chester Street .....	41891	Feb. 20/1916 (4)
Ridings, Alice.....	58, Albert Street, Chadderton	34276	Aug. 8/1911 (1)
Roberts, Mary Ann .....	4, Flora Street .....	591	Dec. 17/1903
Shaw, Mary Ann .....	5, Old Lane, Austerlands	505	Dec. 17/1903
Smith, Charlotte ....	12, Higginshaw Road...	64	Oct. 29/1903
Stirman, Mary J. ....	33, Fulham Street .....	3043	Feb. 21/1910 (4)
Sutton, Mary .....	100, Bamford Street, Chadderton	58	Oct. 29/1903 (1)
Taylor, Fanny .....	171, Balfour Street .....	29693	Oct. 30/1909 (4)
Taylor, Mary Ann .....	3, Canal St., Hollinwood	2592	Mar. 24/1904
Travis, Mary .....	47, Westend Street .....	9443	Oct. 27/1904
Tweeddale, Mary Jane ...	41, Sharples Hall Street.	29713	Oct. 30/1909 (4)
Whalley, Mary .....	40, Brackley Street .....	216	Nov. 26/1903 (3)
Whyatt, Hannah .....	6, Prince Albert Street...	11065	Dec. 22/1904
Worstencroft, Sarah Ann.	8, Coalshaw Green, Chadderton	21194	April 27/1905
Wright, Kitty.....	92, Bolton Street .....	65	Oct. 29/1903
Wright, Mary.....	782, Huddersfield Road.	5444	June 30/1904

(1) Holds the Certificate of St. Mary's Hospital, Manchester.

(2) Holds the Certificate of the London Obstetric Society.

(3) Holds the Certificate of the Southern Hospital, Manchester.

(4) Passed the Examination of the Central Midwives' Board.

— H. —

## *Vital Statistics of the Borough.*

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In ordinary circumstances the population of the Borough would have reached a figure of about 153,000, but the Registrar General has estimated that the removal of soldiers, etc., from the town has reduced the population to 136,126, and it is on this figure that the death rates have been calculated.

For calculating the birth rates the population has been estimated to be equal to 148,107. It is not possible to estimate with any degree of accuracy the population of the several Wards in the Borough, and the statistics given of the various rates in Table 7 are estimated on the pre-war populations.

The natural increase or the increase of the births over the deaths during the year was only 373 less than half the increase in normal times.

### BIRTHS.

The total number of Births registered in the Borough during the year was 2,667, of which the males numbered 1,371, and the females 1,296. This number is a decrease of 340 compared with the year 1915, and is equal to a rate of 17·8 per 1,000 of the estimated population.

The previous lowest death rate, in 1915, was 20·8 per 1,000.

### DEATHS.

The total number of deaths registered in the Borough during the year was 2,442, giving a crude rate of 17·8 per



1,000 of the estimated population. From this number the deaths of 228 non-residents are to be deducted, and 80 residents who died outside the district are to be added, giving a corrected number of 2,294, which is equal to a rate of 16·7 per 1,000 persons.

NUMBER OF DEATHS FROM CERTAIN DISEASES DURING  
THE SIX YEARS (PRE-WAR YEARS), AND IN 1916.

	1909	1910	1911	1912	1913	1914	Average	1916
Measles.....	48	84	64	65	38	169	64	29
Scarlet Fever .....	16	4	5	7	19	48	12	3
Whooping Cough .....	15	77	13	65	36	56	44	48
Diphtheria .....	14	9	11	12	19	39	14	30
Typhoid Fever .....	12	10	3	0	3	5	7	2
Tuberculosis.....	287	247	227	257	263	258	265	250
Diarrhoea .....	54	80	260	52	104	69	124	33
Cancer .....	123	147	145	133	146	155	137	193
Premature Births .....	97	69	84	83	77	77	83	55
Diseases of Brain and Nerves...	328	256	297	246	290	302	287	264
Heart Disease, &c. ....	325	339	247	226	292	277	290	253
Respiratory Diseases .....	613	490	494	507	531	523	534	444
Diseases of Digestive System..	145	136	139	124	161	134	143	147
"    "    Urinary    "    ...	121	96	100	141	99	99	111	100
Accident .....	53	46	60	68	62	65	56	73
Suicide .....	15	13	16	10	17	19	14	10
Atrophy and Wasting .....	56	66	61	51	55	38	64	43

The average death rate for England and Wales was 14·0, and for the 96 large towns 14·4 per 1,000 population.

Though the rates for the Wards are, owing to the populations being unknown, of little value, they will be found in Table 6. Mumps has the highest rate of 21 per 1,000, and St. James' the lowest, with 12·6 per 1,000.

## *Meteorological Report.*

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The Observatory is in the Oldham Park on the south east side of the town. The records are taken daily at 10-0 a.m. In addition to the instruments at this place, a rain-gauge, maximum and minimum thermometer, and a sunshine recorder have been installed at the Strinesdale Sanatorium. A Summary of the Observations will be found in Table 12.

JANUARY.—The mean barometric pressure was 29·67 and the mean temperature 45. The maximum in the sun was 57 degrees. The temperature recorded by the thermometer 4 feet below the surface ranged from 41 to 44 degrees. Rain fell on 24 days, the total rainfall amounting to 3·69 inches.

FEBRUARY.—The mean barometric pressure was 29·42, and the mean temperature 38. The minimum temperature recorded on the grass was 24 degrees, and the maximum in the sun 68 degrees. The temperature recorded by the thermometer 4 feet below the surface ranged from 38 to 43 degrees. Rain fell on 21 days, the total rainfall for the month amounting to 5·39 inches.

MARCH.—The mean barometric pressure was 29·39 inches, and the mean temperature 35 degrees. The minimum temperature on the grass was 21 degrees, and the maximum temperature in the sun was 59 degrees. The temperature recorded by the thermometer 4 feet below the surface ranged from 37 to 40 degrees. Rain fell on 17 days, the total rainfall being 2·69 inches.



APRIL.—The mean barometric pressure was 29.49 inches, and the mean temperature 44 degrees. The minimum temperature on the grass was 23 degrees, and the maximum temperature in the sun was 88 degrees. The temperature recorded by the thermometer 4 feet below the surface ranged from 39 to 44 degrees. Rain fell on 16 days, the total rainfall amounting to 2.39 inches.

MAY.—The mean barometric pressure was 29.55 inches, and the mean temperature 50 degrees. The minimum temperature recorded on the grass was 25 degrees, and the maximum in the sun 84 degrees. The temperature recorded by the thermometer 4 feet below the surface ranged from 43 to 48 degrees. Rain fell on 15 days, the total rainfall amounting to 2.62 inches.

JUNE.—The mean barometric pressure was 29.57 inches, and the mean temperature 51 degrees. The minimum temperature recorded on the grass was 28 degrees, and the maximum in the sun 80 degrees. The temperature recorded by the thermometer 4 feet below the surface ranged from 48 to 50 degrees. Rain fell on 17 days, the total rainfall amounting to 3.34 inches.

JULY.—The mean barometric pressure was 29.69 inches, and the mean temperature 57 degrees. The minimum temperature recorded on the grass was 34 degrees, and the maximum in the sun 80 degrees. The temperature recorded by the thermometer 4 feet below the surface ranged from 50 to 54 degrees. Rain fell on 20 days, the total rainfall amounting to 2.10 inches.

AUGUST.—The mean barometric pressure was 29.61 inches, and the mean temperature 60 degrees. The

minimum temperature recorded on the grass was 31 degrees, and the maximum in the sun 90 degrees. The temperature recorded by the thermometer 4 feet below the surface ranged from 54 to 56 degrees. Rain fell on 16 days, the total rainfall amounting to 2.46 inches.

SEPTEMBER.—The mean barometric pressure was 29.71 inches, and the mean temperature 54 degrees. The maximum in the sun was 87 degrees. The temperature recorded by the thermometer 4 feet below the surface ranged from 52 to 55 degrees. Rain fell on 13 days, and the total rainfall amounted to 3.08 inches.

OCTOBER.—The mean barometric pressure was 29.48 inches, and the mean temperature 51 degrees. The maximum temperature recorded in the sun was 68 degrees. The temperature recorded by the thermometer 4 feet below the surface ranged from 49 to 53 degrees. Rain fell on 25 days, and the total rainfall amounted to 6.17 inches.

NOVEMBER.—The mean barometric pressure was 29.33 inches, and the mean temperature 43 degrees. The maximum temperature recorded in the sun was 60 degrees. The temperature recorded by the thermometer 4 feet below the surface ranged from 45 to 49 degrees. Rain fell on 18 days, and the total rainfall amounted to 3.14 inches.

DECEMBER.—The mean barometric pressure was 29.13 inches, and the mean temperature was 34 degrees. The minimum temperature on the grass was 12 degrees, and the maximum in the sun 50 degrees. The temperature recorded by the thermometer 4 feet below the surface ranged from 40 to 45 degrees. Rain fell on 22 days, and the total rainfall amounted to 3.34 inches.



The following table gives the hours of sunshine recorded each month at Strinesdale, and at Torquay and Southport for comparison :—

	Torquay.		Southport.		Strinesdale.
January .....	50·4	.....	40	.....	11·08
February .....	81·2	.....	76	.....	30·72
March .....	106·8	... ..	61	.....	44·54
April .....	255·3	.....	192	.....	114·81
May .....	200·9	.....	190	.....	107·31
June .....	200·6	.....	185	.....	108·20
July .....	260·2	.....	173	.....	130·15
August .. ..	212·4	.....	195	.....	117·75
September .....	147·2	.....	118	.....	111·80
October .....	94·9	.....	78	.....	39·00
November .....	56·3	.....	47	.....	19·50
December .....	75·8	.....	47	.....	16·40
Total ...	1742·0	.....	1402	.....	851·86

## VITAL STATISTICS, 1916.

## SUMMARY.

Population estimated by the Registrar General to the middle of the year ... ..				136,120
Births registered in the 52 weeks ending December 30th, 1916 ... ..				
	Males	...	1,371	2,667
	Females	...	1,296	
Deaths registered in the 52 weeks ending December 30th, 1916 ... ..				
	Males	...	1,162	2,294
	Females	...	1,132	
Deaths from the seven principal Zymotic diseases...				152
Deaths under 1 per 1,000 Births ... ..				122
Annual Rate of Births per 1,000 living population.				17·8
Annual Rate of Mortality from all causes per 1,000 living population ... ..				16·7
Annual Rate of Mortality per 1,000 living popula- tion from the seven principal Zymotic diseases.				0·9

Of the 2,294 deaths registered during the year 1916, 500 or 21·8 per cent., were those of children under 5 years of age.

## PRINCIPAL CAUSES OF DEATHS.

Bronchitis. ... ..	275	Debility, &c. ... ..	48
Pneumonia ... ..	145	Cancer ... ..	192
Phthisis ... ..	203	Convulsions ... ..	25
Heart Disease... ..	212	Diarrhœa... ..	32
Measles ... ..	29	Premature Birth ... ..	55
Apoplexy, &c.... ..	124	Whooping Cough ... ..	48
Diphtheria ... ..	30	Accidents... ..	85



TABLE No. 1.  
HOUSES BUILT IN THE BOROUGH.

YEAR.				No. OF HOUSES BUILT.
March, 1876, to March, 1877	...	...		1181
" 1877	" 1878	...	...	1010
" 1878	" 1880	...	...	989
" 1880	" 1881	...	...	746
" 1881	" 1882	..	...	738
" 1882	" 1883	...	...	644
" 1883	" 1884	...	...	631
" 1884	" 1885	...	...	737
" 1885	" 1886	...	...	780
" 1886	" 1887	...	...	657
" 1887	" 1888	...	...	711
" 1888	" 1889	...	...	371
" 1889	" 1890	...	...	218
" 1890	" 1891	...	...	214
" 1891	" 1892	...	...	190
" 1892	" 1893	...	...	227
" 1893	" 1894	...	...	362
" 1894	" 1895	...	...	284
" 1895	" 1896	...	...	294
" 1896	" 1897	...	...	360
" 1897	" 1898	...	...	505
" 1898	" 1899	...	...	455
" 1899	" 1900	..	...	608
" 1900	" 1901	...	...	543
" 1901	" 1902	...	...	439
" 1902	" 1903	..	...	375
" 1903	" 1904	...	...	357
" 1904	" 1905	...	...	242
" 1905	" 1906	...	...	185
" 1906	" 1907	...	...	169
" 1907	" 1908	...	...	210
" 1908	" 1909	...	...	283
" 1909	" 1910	...	...	443
" 1910	" 1911	...	...	453
" 1911	" 1912	...	...	283
" 1912	" 1913	...	...	288
" 1913	" 1914	...	...	283
" 1914	" 1915	...	...	212
" 1915	" 1916	...	...	85
" 1916	" 1917	...	...	16

TABLE No. 2.  
 INFANTILE MORTALITY DURING THE YEAR 1916.  
 DEATHS FROM STATED CAUSES IN WEEKS AND MONTHS UNDER  
 ONE YEAR OF AGE.

CAUSE OF DEATH	Under 1 week	1-2 weeks	2-3 weeks	3-4 weeks	Total under 1 month	1-3 months	3-6 months	6-9 months	9-12 months	Total deaths under 1 year
All Causes- { Certified ... ..	77	20	6	15	118	50	51	46	43	308
{ Uncertified ... ..	7	...	...	..	7	6	3	1	2	19
Small-Pox ... ..	...	...	...	...	...	...	...	...	...	...
Chicken-Pox ... ..	...	...	...	...	...	...	...	...	...	...
Measles ... ..	...	...	...	...	...	...	...	...	...	...
Scarlet Fever ... ..	...	...	...	...	...	...	...	...	...	...
Whooping Cough ... ..	...	...	...	...	...	...	...	3	3	6
Diphtheria and Croup ... ..	...	...	...	...	...	2	3	8	5	18
Erysipelas ... ..	...	...	...	...	...	...	...	...	...	...
Tuberculous Meningitis ... ..	...	...	...	...	...	...	...	...	...	...
Abdominal Tuberculosis ... ..	...	...	...	...	...	...	...	1	1	2
Other Tuberculous Diseases ... ..	...	...	...	...	...	...	1	...	...	1
Meningitis (not Tuberculous) ... ..	...	...	...	...	...	...	1	...	...	1
Convulsions ... ..	6	3	1	1	11	...	...	1	...	1
Laryngitis ... ..	...	...	...	...	...	4	2	1	2	20
Bronchitis ... ..	...	2	...	4	6	...	...	...	1	1
Pneumonia (all forms) ... ..	...	...	...	...	...	8	11	13	3	41
Diarrhoea ... ..	...	...	...	...	...	6	6	5	8	25
Enteritis ... ..	...	...	...	1	1	3	7	4	5	20
Gastritis ... ..	...	...	...	1	1	5	2	3	4	15
Syphilis ... ..	...	...	...	...	...	4	3	...	1	8
Rickets ... ..	1	...	...	...	1	1	...	...	...	2
Suffocation, overlying ... ..	...	...	...	...	...	1	...	1	...	2
Injury at Birth ... ..	3	...	...	...	3	...	...	...	...	...
Atelectasis ... ..	1	...	...	...	1	1	...	...	...	3
Congenital Malformations ... ..	3	1	...	...	4	1	...	...	...	2
Premature Births ... ..	42	7	2	1	52	1	1	...	1	6
Atrophy, Debility and Marasmus ... ..	12	5	2	4	23	11	7	4	3	48
Other Causes ... ..	16	2	1	3	22	8	10	3	8	51
TOTALS.....	84	20	6	15	125	56	54	47	45	327



TABLE No. 3.

DEATHS UNDER ONE YEAR OF AGE IN 1916.

Nature of Diseases.	How Fed.					Occupation of Mother.			
	Breast.	Bottle.	Artificial food.	Both Breast and Bottle.	No Food.	Cotton Workers.	Charwoman or Domestic Servant.	Other Occupation.	Housework.
Small Pox .....	...	...	...	...	...	...	...	...	...
Chicken Pox .....	...	...	...	...	...	...	...	...	...
Measles.....	2	3	...	1	...	...	...	...	6
Scarlet Fever .....	...	...	...	...	...	...	...	...	...
Whooping Cough .....	5	13	3	...	...	5	...	1	12
Diphtheria & Croup...	...	...	...	...	...	...	...	...	...
Erysipelas .....	...	...	...	...	...	...	...	...	...
Tubercular Meningitis	2	...	...	...	...	...	...	...	2
Abdominal									
Tuberculous.....	1	...	...	...	...	...	...	...	1
Other Tuberculosis									
Diseases .....	...	1	...	...	...	...	...	...	1
Meningitis (not									
Tuberculous) ...	...	1	...	...	...	1	...	...	...
Convulsions ... ..	13	3	1	...	4	5	...	...	15
Laryngitis .....	1	...	...	...	...	...	...	...	1
Bronchitis .....	16	21	5	2	...	9	1	1	28
Pneumonia (all forms)	10	15	1	1	...	3	...	1	22
Diarrhoea .....	6	15	4	...	...	5	1	...	15
Enteritis .....	4	11	1	...	...	5	...	...	10
Gastritis .....	...	8	2	...	...	2	...	...	6
Syphilis.....	1	...	...	...	1	...	...	...	2
Rickets .....	...	2	1	...	...	...	...	...	2
Suffocation, over-									
lying .....	...	...	...	...	...	...	...	...	...
Injury at birth...	...	1	...	...	2	...	...	...	3
Atelectasis .....	1	...	...	...	1	...	...	...	2
Congenital Mal-									
formation ... ..	2	3	...	...	1	1	1	...	4
Premature Birth .....	13	6	...	2	32	15	...	1	37
Atrophy, Debility,									
and Marasmus...	14	25	3	...	8	5	...	2	40
Other Causes .....	20	26	2	2	5	10	1	1	41
TOTALS .....	111	134	23	8	54	66	4	7	250

TABLE No. 6.—Showing Population, Births and Birth Rates, Deaths and Death Rates.—1916.

WARD.	Population.	Area in Acres.	Density (Persons to an Acre).	BIRTHS.			Birth Rate per 1,000 Population.	DEATHS.			Death Rate per 1,000 Population.
				Males.	Females.	Total.		Males.	Females.	Total.	
St. Mary's .....	11,102	113	98.2	118	103	221	19.9	103	83	186	16.7
St. Peter's .....	11,510	271	42.5	77	83	160	13.9	79	71	150	13.0
Werneth .....	12,111	262	46.2	109	91	200	16.6	91	92	183	15.2
Westwood .....	15,550	280	55.5	142	148	290	18.5	93	139	232	14.8
St. Paul's .....	15,923	457	34.8	128	139	267	16.8	103	137	240	15.1
Coldhurst .....	10,639	130	81.8	117	85	202	18.9	105	85	190	17.8
Hartford .....	13,352	207	64.5	125	126	251	18.8	119	82	201	15.1
Hollinwood.....	10,367	420	24.7	85	102	187	18.1	74	76	150	14.5
Clarksfield .....	16,338	623	26.2	151	146	297	18.1	105	118	223	13.6
Mumps .....	8,637	125	69.1	90	67	157	18.2	102	79	181	21.0
St. James' .....	11,387	1,015	11.2	97	103	200	17.6	77	66	143	12.6
Waterhead .....	14,128	826	17.2	132	103	235	16.7	111	104	215	15.2
Total.....	136,126	4,729	30.0	1,371	1,296	2,667	17.8	1,162	1,132	2,294	16.7

The Populations of the Wards are pre-war numbers.



TABLE No. 7.

Death Rates per 1,000 population in the various Wards, from  
various Diseases.

1916.

Ward.	All causes	Seven Principal Zymotic Diseases	Phthisis	Bronchitis	Pneumonia	Deaths under 1 year to 1000 births
St. Mary's	16.7	1.6	1.4	2.3	1.4	149
St. Peter's	13.0	0.4	1.3	0.9	0.8	94
Werneth	15.2	1.1	1.1	1.9	0.6	120
Westwood	14.8	0.7	1.3	2.0	1.6	114
St. Paul's	15.1	0.7	0.7	1.5	1.1	161
Coldhurst	17.8	1.5	2.5	1.8	0.8	138
Hartford	15.1	0.7	1.0	1.9	0.8	151
Hollinwood	14.5	1.2	0.6	2.1	1.0	133
Clarksfield	13.6	1.1	1.3	1.8	0.5	74
Mumps	21.0	1.5	2.9	2.4	1.1	146
St. James'	12.6	0.2	1.1	1.9	0.6	80
Waterhead	15.2	0.8	1.4	1.5	1.0	106
Borough ...	16.7	0.9	1.3	1.8	0.9	122

TABLE No. 8.

NAMES OF LOCALITIES.		Borough of Oldham.			
YEAR.	Population estimated to middle of each Year.	Births Registered.	Deaths at all Ages.	Deaths under 1 Year.	
1906 .....	140,969	3,787	2,641	552	
1907 .....	141,730	3,743	2,732	541	
1908 .....	142,507	4,089	2,868	646	
1909 .....	143,301	3,912	2,717	467	
1910 .....	146,700	3,711	2,464	472	
1911 .....	147,751	3,491	2,610	556	
1912 .....	148,840	3,419	2,440	400	
1913 .....	149,936	3,465	2,552	483	
1914 .....	151,044	3,493	2,694	476	
1915 .....	141,781	3,007	2,601	380	
Averages of Years 1906 to 1915 }		145,456	3,612	2,632	497
1916 .....	141,781	2,667	2,294	325	

NAMES OF LOCALITIES.		St. Mary's.				St. Peter's.				Werneth.			
YEAR.	Population estimated to middle of each Year.	Births Registered.	Deaths at all Ages.	Deaths under 1 Year.		Population estimated to middle of each Year.	Births Registered.	Deaths at all Ages.	Deaths under 1 Year.	Population estimated to middle of each Year.	Births Registered.	Deaths at all Ages.	Deaths under 1 Year.
1906 .....	10,785	333	214	54		11,722	207	166	18	11,322	234	174	29
1907 .....	10,810	332	218	45		11,723	226	168	19	12,358	279	208	30
1908 .....	10,835	362	240	56		11,723	238	213	34	12,396	283	221	38
1909 .....	10,860	347	227	48		11,723	212	196	19	12,436	289	214	34
1910 .....	10,956	228	201	51		11,562	213	180	26	12,113	254	176	32
1911 .....	10,994	296	222	56		11,558	189	156	24	12,111	255	176	30
1912 .....	11,030	332	297	41		11,540	189	202	21	12,111	210	176	30
1913 .....	11,066	320	194	48		11,522	180	168	21	12,111	257	168	20
1914 .....	11,102	330	241	48		11,510	172	162	18	12,111	231	191	28
1915 .....	11,102	291	202	44		11,510	179	195	22	12,111	191	178	21
Averages of Years 1906 to 1915 }		10,954	317	225	49	11,609	200	177	22	12,118	248	188	30
1916 .....	11,102	221	186	33		11,510	169	150	15	12,111	200	183	24

NAMES OF LOCALITIES.		Westwood.				St. Paul's.				Coldhurst.			
YEAR.	Population estimated to middle of each Year.	Births Registered.	Deaths at all Ages.	Deaths under 1 Year.		Population estimated to middle of each Year.	Births Registered.	Deaths at all Ages.	Deaths under 1 Year.	Population estimated to middle of each Year.	Births Registered.	Deaths at all Ages.	Deaths under 1 Year.
1906 .....	13,705	394	234	41		12,664	376	212	44	10,338	307	237	51
1907 .....	13,816	381	244	37		12,834	384	234	59	10,334	272	264	43
1908 .....	13,990	420	271	70		13,008	390	213	49	10,330	337	281	62
1909 .....	14,130	433	241	44		13,184	379	212	38	10,330	321	266	49
1910 .....	14,728	442	220	41		14,594	368	222	48	10,570	254	224	46
1911 .....	14,939	382	241	52		14,940	343	224	48	10,587	294	205	48
1912 .....	15,149	337	228	37		15,278	369	207	32	10,569	251	238	41
1913 .....	15,349	363	233	40		15,598	341	217	45	10,604	272	219	40
1914 .....	15,550	380	245	37		15,923	351	252	51	10,639	282	234	50
1915 .....	15,550	295	214	22		15,923	339	280	38	10,639	215	242	38
Averages of Years 1906 to 1915 }		14,693	383	237	42	14,094	364	227	45	10,494	280	241	46
1916 .....	15,550	290	232	33		15,923	267	240	43	10,639	202	190	28



TABLE No 8—Continued.

NAMES OF LOCALITIES.		Hartford.				Hollinwood.				Clarksfield.			
YEAR.	Population estimated to middle of each Year.	Births Registered.	Deaths at all Ages.	Deaths under 1 Year.	Population estimated to middle of each Year.	Births Registered.	Deaths at all Ages.	Deaths under 1 Year.	Population estimated to middle of each Year.	Births Registered.	Deaths at all Ages.	Deaths under 1 Year.	
1906 .....	12,473	361	260	59	9,150	302	191	55	15,866	387	245	55	
1907 .....	12,473	375	303	60	9,252	286	174	42	16,158	379	228	45	
1908 .....	12,473	336	305	72	9,356	281	160	43	16,454	432	256	63	
1909 .....	12,479	367	263	42	9,476	277	185	38	16,750	392	252	39	
1910 .....	13,170	362	239	41	9,808	270	146	38	15,702	375	291	44	
1911 .....	13,149	310	239	56	9,951	254	184	50	15,861	364	256	50	
1912 .....	13,218	329	251	41	10,093	250	152	31	16,022	352	221	40	
1913 .....	13,285	324	242	48	10,230	273	157	43	16,180	371	255	42	
1914 .....	13,352	316	255	49	10,367	268	155	32	16,338	361	262	43	
1915 .....	13,352	275	228	27	10,367	239	157	19	16,338	308	256	42	
Averages of Years 1906 to 1915 }	12,942	335	264	49	9,805	270	166	39	16,167	372	252	46	
1916 .....	13,352	251	201	38	10,367	187	150	25	16,338	297	223	22	

		Mumps.				St. James's.				Waterhead.			
1906 .....	8,300	216	226	39	10,660	241	191	32	12,982	381	264	66	
1907 .....	8,298	218	231	51	10,660	289	218	41	12,984	334	257	56	
1908 .....	8,298	258	203	36	10,660	277	203	45	12,984	379	268	72	
1909 .....	8,298	213	205	38	10,660	293	237	51	12,984	383	251	41	
1910 .....	8,572	238	169	30	11,166	299	205	40	13,759	338	239	40	
1911 .....	8,572	199	228	48	11,219	269	187	35	13,853	320	267	58	
1912 .....	8,605	198	179	22	11,277	273	188	27	13,948	354	212	34	
1913 .....	8,621	199	198	38	11,332	248	167	30	14,038	295	269	50	
1914 .....	8,637	236	226	45	11,387	261	206	32	14,128	305	265	43	
1915 .....	8,637	182	196	33	11,387	214	184	29	14,128	279	269	45	
Averages of Years 1906 to 1915 }	8,485	216	206	38	11,040	216	198	36	13,579	337	256	50	
1916 .....	8,637	187	181	23	11,387	200	143	16	14,128	235	215	25	

TABLE No. 9.—FOR WHOLE DISTRICT.

YEAR.	Population estimated to middle of each Year.	BIRTHS.		TOTAL DEATHS REGISTERED IN THE DISTRICT.				Total Deaths in Public Insti- tutions in the District.	Deaths of Non- residents in Public Insti- tutions in the District.	Deaths of residents beyond the District.	NETT DEATHS AT ALL AGES BELONGING TO THE DISTRICT.	
		Number	Rate.	Under 1 Year of Age.		At all Ages.					Number	Rate.
				Number	Rate per 1,000 Births registered	Number	Rate.					
1	2	3	4	5	6	7	8	9	10	11	12	13
1906	140,969	3787	26.9	552	146	2790	19.8	341	160	11	2641	18.8
1907	141,730	3743	26.5	541	144	2863	20.3	536	152	21	2732	19.7
1908	142,507	4059	28.4	646	159	3022	21.1	580	160	6	2868	20.1
1909	143,301	3912	27.4	467	119	2873	20.1	592	178	22	2717	19.0
1910	146,700	3711	25.2	472	127	2656	18.0	570	199	7	2464	16.7
1911	147,751	3491	24.4	556	159	2755	19.3	560	180	35	2610	18.2
1912	148,840	3419	23.2	400	117	2601	17.4	607	212	51	2440	16.3
1913	149,936	3465	23.2	483	138	2690	18.0	610	191	53	2552	17.1
1914	151,044	3493	23.0	476	136	2850	18.8	636	214	58	2694	17.8
1915	141,781	3007	20.8	380	126	2745	19.0	682	209	65	2601	18.0
Averages for years 1906-1915	145,455	3608	24.9	497	137	2784	19.2	571	185	33	2632	18.2
1916	148,107	2667	17.8	325	122	2442	17.8	696	228	80	2294	16.7

Area of District in Acres, 4,729.  
 At Census of 1911.—Total population at all ages, 1,47,495. Number of inhabited houses, 33,415.  
 Average number of persons per house 4.41



TABLE No. 10.

Showing the Birth-rates, also Rates of Mortality from all causes, from the seven principal Zymotic Diseases, and from Phthisis, Bronchitis, and Pneumonia, during the years 1882-1916.

Year	Population	RATES PER 1,000 POPULATION FROM						Deaths under 1 year to 1000 births
		Births	Deaths all causes	7 principal Zymotic Diseases	Phthisis	Bronchitis	Pneumonia	
1882	114,017	35.3	24.9	2.8	2.3	3.4	2.1	182
1883	115,888	36.0	22.5	1.5	2.3	2.9	1.8	159
1884	117,791	37.4	25.9	3.7	2.6	2.8	2.3	182
1885	119,724	37.5	23.2	2.1	2.4	2.7	2.2	167
1886	121,690	34.7	24.2	3.0	2.3	3.1	1.9	175
Average 5 y'rs		36.2	24.1	2.6	2.4	3.0	2.0	173
1887	123,687	33.8	25.8	4.5	2.0	3.2	2.1	187
1888	125,717	33.3	22.3	2.2	1.9	2.6	2.6	151
1889	127,781	31.5	22.7	3.3	1.9	2.8	2.6	178
1890	129,878	31.0	24.4	2.5	2.0	3.4	3.1	180
1891	132,010	30.8	25.6	2.3	1.9	3.7	3.3	193
Average 5 y'rs		32.1	24.2	2.9	1.9	3.1	2.7	178
1892	132,171	29.5	22.3	2.7	2.1	2.8	2.3	177
1893	132,738	29.4	21.6	2.6	1.9	2.3	2.4	186
1894	133,313	28.4	19.4	1.9	2.0	2.1	1.9	162
1895	133,888	29.0	23.1	2.9	1.8	2.7	2.4	190
1896	134,475	29.1	21.6	2.9	1.7	2.5	2.3	183
Average 5 y'rs		29.1	21.6	2.6	1.9	2.5	2.3	180
1897	135,045	28.2	20.7	2.7	1.7	2.0	2.2	183
1898	135,617	27.7	19.2	2.4	1.7	2.1	2.2	174
1899	136,210	27.5	22.7	2.4	1.6	2.8	2.6	198
1900	136,797	27.1	22.0	2.7	1.9	2.8	2.3	173
1901	137,382	24.6	19.7	2.5	1.6	2.2	2.2	173
Average 5 y'rs		27.0	20.9	2.5	1.7	2.4	2.3	180
1902	138,091	26.1	19.1	2.0	1.5	2.1	2.0	148
1903	138,786	25.6	18.6	2.4	1.6	2.4	1.6	160
1904	139,497	24.9	18.3	2.3	1.4	2.2	1.5	155
1905	140,225	24.3	18.1	2.1	1.5	1.9	1.6	150
1906	140,969	26.9	18.8	2.8	1.3	1.7	1.6	146
Average 5 y'rs		25.5	18.6	2.3	1.4	2.0	1.6	152
1907	141,730	26.5	19.3	1.5	1.6	2.5	1.9	144
1908	142,507	28.4	20.1	2.6	1.5	2.2	1.5	159
1909	143,301	27.4	19.0	1.1	1.4	2.2	1.8	119
1910	146,700	25.2	16.7	1.8	1.1	1.7	1.5	127
1911	147,751	24.4	18.2	2.5	1.2	1.7	1.5	159
Average 5 y'rs		26.4	18.6	1.9	1.3	2.0	1.6	141
1912	148,840	22.9	16.3	1.3	1.3	1.8	1.3	117
1913	149,936	23.2	17.1	1.4	1.2	2.0	1.3	139
1914	151,044	23.0	17.8	2.5	1.2	1.9	1.4	136
1915	141,781	20.8	18.0	1.0	1.4	2.3	1.6	126
1916	*136,126	17.8	16.7	0.9	1.3	1.8	0.9	122
Average 5 y'rs		21.5	17.2	1.4	1.3	1.9	1.3	128

\* Estimated for Deaths.



TABLE No. 11.

Showing the number of deaths from the Seven Principal Zymotic Diseases in the Borough of Oldham, during the years 1878-1916.

Year	Population	Smallpox	Measles	Scarlet Fever	Diphtheria	Whooping Cough	Fever Typhus and Typhoid	Diarrhoea	Total Deaths
1878	102,573	1	114	240	26	77	36	93	587
1879	105,679	...	9	136	19	60	25	46	295
1880	108,880	...	96	131	9	70	28	142	476
1881	112,176	9	7	87	10	36	39	69	257
1882	114,017	4	69	58	10	77	26	74	318
1883	115,888	2	6	21	9	38	26	76	178
1884	117,791	...	193	33	7	36	22	149	440
1885	119,724	...	54	20	14	104	18	46	256
1886	121,690	...	89	32	29	57	30	134	371
1887	123,687	...	176	103	62	100	25	89	555
1888	125,717	13	53	66	36	40	24	43	275
1889	127,781	...	126	54	16	127	20	78	421
1890	129,878	...	95	25	6	82	15	96	319
1891	132,010	...	97	25	18	71	27	68	306
1892	132,171	15	139	42	18	68	16	56	354
1893	132,728	65	29	16	16	56	26	140	348
1894	133,313	22	56	21	39	58	15	46	257
1895	133,888	23	97	16	25	57	26	143	387
1896	134,475	...	165	56	34	53	23	72	403
1897	135,045	...	96	21	9	77	19	145	367
1898	135,617	...	87	24	10	65	23	114	323
1899	136,210	...	49	46	21	54	18	138	326
1900	136,797	3	108	54	20	89	17	76	367
1901	137,382	...	73	41	13	30	9	171	337
1902	138,091	7	103	39	49	29	13	42	282
1903	138,786	23	43	30	58	111	12	47	324
1904	139,497	14	70	22	34	37	22	117	316
1905	140,225	5	65	45	11	57	12	98	293
1906	140,969	...	125	33	17	41	6	175	397
1907	141,730	...	35	17	17	66	4	78	217
1908	142,507	...	82	28	23	54	12	174	373
1909	143,301	...	43	16	14	15	12	54	159
1910	146,700	...	84	4	9	77	10	80	264
1911	147,751	...	64	5	11	13	3	260	356
1912	148,840	...	65	7	12	65	...	52	201
1913	149,936	...	38	19	19	36	3	104	219
1914	151,044	...	169	48	39	56	5	69	386
1915	141,781*	...	48	17	20	15	4	49	153
1916	136,126*	...	29	3	30	48	2	32	144

\* Estimated for Deaths.



TABLE No. 14.

Return of Inquests held in Oldham, touching the cause of death of any person, for the year ended 31st December, 1916.

INQUESTS.	Males	Females.
Infants (Legitimate), under 1 year .....	12	7
"    1 year and under 7 years .....	16	16
Infants (Illegitimate or unknown) under 1 year .....	...	...
"    1 year and under 7 years .....	1	...
Children, 7 years and under 16 .....	7	8
Youths, 16 years and under 25 .....	3	1
Adults, 25 years and under 60 .....	54	28
Aged, 60 years and above .....	40	29
Ages unknown .....	...	...
Total .....	134	89
VERDICTS.	Males.	Females.
Felo de se .....	...	...
Want of Attention at Birth .....	...	...
Murder .....	...	...
Manslaughter .....	...	1
Suicide, while Insane .....	6	4
Accidental Death .....	49	30
Open Verdicts .....	6	4
Excessive Drinking .....	...	3
Natural Causes .....	72	45
Found Drowned .....	1	...
Stillborn .....	2	...
Disease aggravated by neglect .....	...	...
Justifiable Homicide .....	...	...
Total .....	136	87

TABLE No 12.

Weekly Means of Meteorological Observations for the year 1916.

DATE	Barometer reduced to Sea Level at 32.0	HYGROMETER		Thermometer	TEMPERATURES.							Rainfall 12in. above ground.	Number of Days on which rain fell	Clouds covered = 10 clear = 0	Sunshine recorded at Strinesdale
		Dry	Wet		Maximum in Shade	Minimum in Shade	Maximum in Sun Black Bulb	Maximum in Sun Black Bulb in Vacuo	Minimum on Grass.	Temperature 12in. below surface.	Temperature 4 ft. below surface.				
1916															
January 8	29.58	46	45	46	53	41	52	55	39	43	42	1.76	6	9	.04
15	29.74	43	42	43	47	37	48	53	36	43	43	.52	5	9	4.14
22	29.50	45	43	45	49	41	49	51	40	43	43	1.08	6	9	.14
29	29.86	43	42	43	46	39	48	52	38	43	42	.32	5	7	5.18
February 5	29.51	41	40	41	44	38	46	49	37	43	42	.83	6	10	4.68
12	29.30	37	37	37	41	32	45	55	33	40	42	1.46	4	10	4.25
19	29.19	39	37	39	44	34	50	54	29	39	41	1.86	6	9	5.19
26	29.69	36	33	36	39	31	45	55	27	39	40	.09	3	6	18.09
March 4	29.08	35	34	35	37	31	44	52	26	38	40	1.31	4	9	13.19
11	29.48	34	32	34	37	30	57	59	÷	37	39	.52	4	7	12.15
18	29.31	38	37	38	39	34	÷	48	÷	38	39	1.40	6	10	1.07
25	29.23	37	35	37	41	32	÷	51	22	39	39	.37	5	10	3.07
April 1	29.43	41	39	41	44	34	÷	60	29	39	39	.25	1	8	24.16
8	29.74	45	33	45	50	35	÷	72	27	41	40	.03	2	6	33.17
15	29.41	44	41	44	51	37	÷	73	33	43	40	1.05	6	9	25.30
22	29.07	43	41	43	46	38	53	66	33	43	41	1.28	6	10	4.16
29	29.75	54	51	54	60	44	70	83	35	47	42	.03	2	6	34.15
May 6	29.40	48	45	48	54	38	63	76	32	49	44	.23	3	6	24.09
13	29.41	47	45	47	53	40	58	71	34	47	45	1.53	7	9	6.95
20	29.79	58	53	58	60	47	69	83	36	51	45	.57	2	5	31.19
27	29.61	57	52	57	64	47	76	91	36	54	47	.14	2	7	38.20



June	3 29.65	53	53	49	74	59	44	72	85	33	53	48	47	Total 40-17	als. 221	8	Total 851.86
	10 29.27	48	48	45	79	52	43	65	81	35	52	49	49	1.81	7	10	12.60
	17 29.79	49	49	45	73	55	43	67	81	39	52	48	48	.12	1	8	43.80
	24 29.64	55	55	51	75	60	49	69	85	40	55	49	49	.09	2	9	14.75
July	1 29.48	54	54	51	80	59	49	70	88	40	55	50	50	.93	4	10	19.85
	8 29.41	57	57	53	75	60	50	72	87	41	56	51	51	.70	6	7	20.30
	15 29.58	55	55	52	81	58	49	65	82	42	56	51	51	.88	6	10	9.80
	22 29.85	59	59	56	82	63	52	71	81	45	57	52	52	.49	5	9	27.25
	29 29.92	64	64	58	72	72	54	85	98	43	60	53	53	—	0	6	60.90
August	5 29.97	64	64	60	77	69	56	84	99	47	61	54	54	.03	2	9	46.70
	12 29.88	62	62	57	72	70	53	84	98	42	60	55	55	—	1	4	52.55
	19 29.38	59	59	56	82	66	54	73	89	48	60	56	56	1.49	7	10	1.80
	26 29.53	59	59	56	82	64	54	74	90	45	58	55	55	.76	5	8	16.15
Septem.	2 29.42	56	56	53	81	62	50	72	85	41	58	55	55	.21	4	8	26.65
	9 29.81	58	58	55	81	63	52	75	86	41	56	55	55	1.12	3	8	25.40
	16 29.77	53	53	50	80	60	47	66	78	39	56	54	54	.76	6	8	21.75
	23 29.66	52	52	48	74	59	45	65	79	35	54	52	52	1.20	3	7	18.85
	30 29.60	56	56	53	81	63	49	71	83	39	54	52	52	—	0	8	30.60
October	7 29.50	55	55	53	87	65	50	64	77	43	54	52	52	1.80	6	10	2.00
	14 29.60	58	58	55	81	61	51	63	72	44	55	52	52	2.04	5	10	6.10
	21 29.67	46	46	43	79	52	40	59	69	30	51	52	52	.67	4	8	13.50
	28 29.15	47	47	44	79	51	40	57	68	30	47	51	51	.56	7	8	17.30
Novem.	4 29.08	46	46	44	86	49	42	50	56	31	47	49	49	1.46	7	9	2.20
	11 29.18	47	47	45	86	50	42	51	58	34	46	48	48	1.51	5	10	1.10
	18 29.66	43	43	42	92	48	39	51	57	31	45	48	48	.01	2	8	6.90
	25 29.08	42	42	41	92	45	39	46	52	28	43	46	46	.79	5	9	4.00
Decem.	2 29.66	41	41	39	85	44	34	47	51	26	42	45	45	.48	4	8	9.20
	9 29.46	36	36	34	82	39	30	42	46	20	39	44	44	.55	4	7	8.00
	16 28.83	35	35	34	90	38	30	38	41	22	38	43	43	.35	5	9	3.70
	23 28.87	35	35	34	90	37	29	37	40	19	37	41	41	.64	4	10	1.00
	30 29.37	39	39	38	92	41	32	42	44	27	38	40	40	1.55	6	10	.50
Means	29.49	48	48	45	79	53	42	60	69	35	48	47	47	Total 40-17	als. 221	8	Total 851.86

÷ Instrument out of Order.

TABLE No. 15.

## COUNTY BOROUGH OF OLDHAM.

Deaths Registered at Several Groups of Ages from Different Causes  
during 52 Weeks ending December 30th, 1916.

CAUSE OF DEATH.	AGES.									ALL AGES.	Total Deaths whether of "Residents" or "Non- Residents" in Institutions in the District.
	0 to 1	1 to 2	2 to 5	Total under 5 years	5 to 15	15 to 25	25 to 45	45 to 65	65 and upwards		
<i>Classes.</i>											
I.—SPECIFIC FEBRILE OR ZYMOTIC DISEASES ...	52	45	42	139	48	46	95	92	18	435	134
II.—PARASITIC DISEASES ...	1	1	..	2	..	..	..	..	..	2	1
III.—DIETETIC DISEASES ...	..	..	..	..	..	..	1	1	..	2	..
IV.—CONSTITUTIONAL DISEASES...	4	..	3	7	..	5	29	158	59	258	71
V.—DEVELOPMENTAL DISEASES...	64	..	1	65	..	..	..	..	74	139	24
VI.—LOCAL DISEASES .....	137	37	30	204	52	40	178	404	349	1227	382
VII.—DEATHS FROM VIOLENCE	3	4	4	11	12	4	13	29	16	85	63
VIII.—DEATHS FROM ILL- DEFINED AND NOT SPECIFIED CAUSES ...	64	6	2	72	5	2	10	26	28	143	22
TOTALS .....	325	93	82	500	117	97	326	710	544	2294	697
I.—SPECIFIC FEBRILE OR ZYMOTIC DISEASES.											
1. Miasmatic Diseases.											
Smallpox .....	..	..	..	..	..	..	..	..	..	..	..
Measles.....	6	13	7	26	2	1	..	..	..	29	..
Scarlet Fever .....	..	..	2	2	1	..	..	..	..	3	4
Typhus .....	..	..	..	..	..	..	..	..	..	..	..
Whooping Cough .....	19	16	11	46	2	..	..	..	..	48	..
Diphtheria .....	..	6	13	19	11	..	..	..	..	30	20
Simple Continued and Ill- defined Fever .....	..	..	..	..	..	..	..	..	..	..	..
Enteric or Typhoid Fever ..	..	..	..	..	..	..	2	..	..	2	4
Cerebro-Spinal Fever.....	..	1	..	1	1	..	..	..	..	2	..
Tabes Mesenterica .....	..	..	..	..	..	..	..	..	..	..	..
Tubercular Meningitis, Hydro- cephalus .....	3	..	5	8	11	4	..	..	..	23	3
Phthisis .....	..	3	1	4	10	31	76	71	11	203	82
Other Forms of Tuberculosis	..	..	..	..	..	..	..	..	..	..	..
Scrofula .....	2	2	2	6	8	7	5	4	..	30	3
Other Miasmatic Diseases.....	..	..	..	..	..	..	..	..	..	..	..
Influenza .....	..	..	..	..	1	2	7	12	3	25	1
2. Diarrhoeal Diseases.											
Simple Cholera .....	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea Dysentery .....	20	4	..	24	..	..	1	3	4	32	11





TABLE No. 15—Continued.

CAUSE OF DEATH.	AGES.									ALL AGES.	Total Deaths whether of "Residents" or "Non- Residents" in Institutions in the District.
	0 to 1	1 to 2	2 to 5	Total under 5 years	5 to 15	15 to 25	25 to 45	45 to 65	65 and upwards		
V.—DEVELOPMENTAL DISEASES.											
Premature Birth.....	55	...	...	55	...	...	...	...	...	55	7
Atelectasis .....	2	...	...	2	...	...	...	...	...	2	...
Congenital Malformations...	7	...	1	8	...	...	...	...	...	8	1
Old Age .....	...	...	...	...	...	...	...	...	74	74	16
VI.—LOCAL DISEASES.											
1. Diseases of Nervous System.											
Inflammation of Brain or Membranes .....	...	4	6	10	5	1	1	4	3	24	2
Apoplexy, Softening of Brain, Hemiplegia, Brain Paralysis.	1	...	...	1	1	...	8	50	64	124	55
Insanity, General Paralysis of the Insane .....	...	...	1	1	1	1	11	22	8	44	44
Epilepsy .....	...	...	1	1	...	3	8	6	1	19	19
Convulsions .....	20	3	2	25	...	...	...	...	...	25	1
Laryngismus Stridulus (Spasm of Glottis) .....	1	2	...	3	1	...	...	...	1	5	...
Poliomyelitis .....	...	...	...	...	...	...	...	1	...	1	...
Disease of Spinal Cord, Para- plegia, Paralysis Agitans...	4	...	...	4	1	3	2	4	1	15	5
Other Diseases of Nervous System .....	...	...	...	...	...	1	...	2	1	4	3
2. Diseases of Organs of Special Sense.											
Of Ear, Eye, Nose .....	...	2	...	2	1	2	...	...	...	5	4
3. Diseases of Circulatory System.											
Pericarditis .....	...	...	...	...	...	...	...	...	...	...	...
Acute Endocarditis.....	...	...	...	...	1	4	4	3	8	20	...
Valvular Diseases of Heart ...	...	...	...	...	3	6	18	40	27	94	21
Other Diseases of Heart .....	7	...	1	8	2	2	17	51	38	118	33
Aneurism .....	...	...	...	...	...	...	...	...	1	1	1
Embolism, Thrombosis .....	...	...	...	...	...	...	1	...	1	2	...
Other Diseases of Blood Vessels	...	...	...	...	...	...	1	4	15	20	3
4. Diseases of Respiratory System.											
Laryngitis .....	1	...	1	2	2	1	...	...	...	5	1
Croup .....	...	...	1	1	...	...	...	...	...	1	...
Emphysema, Asthma.....	...	...	...	...	...	...	1	4	...	5	4
Bronchitis .....	41	7	3	51	1	3	20	87	113	275	67
Broncho-Pneumonia .....	15	7	5	27	4	1	2	8	4	46	8
Pneumonia (other forms) .....	11	7	4	22	8	3	26	25	15	99	8
Pleurisy .....	...	...	...	...	...	...	2	1	...	3	...
Other Diseases of Respiratory System .....	...	...	...	...	2	...	1	5	2	10	2



TABLE No. 15—Continued.

CAUSE OF DEATH.	AGES.									ALL AGES.	Total which "Res." or Reside Insti- tute Dis.
	0 to 1	1 to 2	2 to 5	Total under 5 years	5 to 15	15 to 25	25 to 45	45 to 65	65 and upwards		
5. Diseases of Digestive System.											
Dentition .....	2	3	...	5	...	...	...	...	...	5	
Sore Throat, Quinsy .....	...	...	...	...	...	...	1	1	...	2	
Diseases of Stomach .....	9	...	1	10	2	...	6	2	5	25	
Enteritis .....	15	2	1	18	2	...	2	1	1	24	
Obstructive Diseases of Intestine .....	3	...	1	4	2	...	5	7	3	21	
Hernia .....	...	...	...	...	...	...	1	3	4	8	
Peritonitis .....	...	...	...	...	...	1	3	1	...	5	
Appendicitis and Typhlitis .....	...	...	...	...	7	5	3	2	2	19	
Ascitis .....	...	...	...	...	...	...	...	...	...	...	
Cirrhosis of Liver .....	...	...	...	...	...	...	2	9	3	14	
Jaundice and other Diseases of Liver ...	5	...	...	5	...	...	...	3	...	8	
Other Diseases of Digestive System .....	1	...	1	2	1	...	4	6	3	16	
6. Diseases of Lymphatic System.											
Of Lymphatics and of Spleen..	...	...	...	...	...	...	1	...	...	1	
7. Diseases of Glandlike Organs of Uncertain Use.											
Bronchocele, Addison's Disease .....	...	...	...	...	...	...	1	1	...	2	
8. Diseases of Urinary System.											
Nephritis .....	...	...	...	...	2	2	19	24	5	52	
Bright's Disease, Albuminuria. ...	...	...	1	1	2	1	4	17	9	34	
Disease of Bladder or of Prostate .....	...	...	...	...	...	...	...	2	7	9	
Other Diseases of the Urinary System .....	...	...	...	...	...	...	1	6	2	9	
9. Diseases of Reproductive System.											
A. Of Organs of Generation.											
Male Organs .....	...	...	...	...	...	...	...	...	...	...	
Female Organs .....	...	...	...	...	...	...	...	...	...	...	
B. Of Parturition.											
Abortion, Miscarriage .....	...	...	...	...	...	...	...	...	...	...	
Puerperal Convulsions .....	...	...	...	...	...	...	...	...	...	...	
Placenta prævia, Flooding .....	...	...	...	...	...	...	...	...	...	...	
Other Accidents of Childbirth. ...	...	...	...	...	...	...	1	...	...	1	
10. Diseases of Bones and Joints.											
Caries, Necrosis .....	...	...	...	...	...	...	...	...	...	...	
Arthritis, Ostitis, Periostitis...	...	...	...	...	...	...	...	...	1	1	
Other Diseases of Bones and Joints .....	...	...	...	...	...	...	1	1	1	3	

TABLE No. 15—Continued.

CAUSE OF DEATH.	AGES.								ALL AGES	Total Deaths whether of "Residents" or "Non-Residents" in Institutions in the District.
	0 to 1	1 to 5	2 to 5	Total under 5 years	5 to 15	15 to 25	25 to 45	45 to 65	65 and upwards	
11. <i>Diseases of Integumentary System.</i>										
Carbuncle, Phlegmon .....	...	...	...	...	...	...	...	...	...	...
Other Diseases of Integumentary System .....	1	...	...	1	1	...	...	1	...	2
VII.—DEATHS FROM VIOLENCE.										
1. <i>Accident or Negligence.</i>										
Fractures and Contusions.....	2	2	2	6	1	4	5	21	14	51
Gunshot Wounds .....	...	...	...	...	...	...	...	...	...	37
Cut, Stab .....	...	...	...	...	...	...	...	...	...	4
Burn, Scald .....	...	2	2	4	7	...	...	1	...	12
Poison .....	...	...	...	...	...	...	...	1	...	17
Drowning .....	...	...	...	...	4	...	2	2	...	1
Suffocation .....	...	...	...	...	...	...	1	...	...	1
Otherwise .....	1	...	...	1	...	...	1	...	...	2
2. <i>Homicide.</i>										
Manslaughter .....	...	...	...	...	...	...	...	...	...	...
Murder .....	...	...	...	...	...	...	...	...	...	1
3. <i>Suicide.</i>										
Gunshot Wounds .....	...	...	...	...	...	...	...	...	...	...
Cut, Stab .....	...	...	...	...	...	...	...	2	...	2
Poison .....	...	...	...	...	...	...	...	1	...	...
Drowning .....	...	...	...	...	...	...	2	...	2	1
Hanging .....	...	...	...	...	...	...	2	1	...	...
Otherwise .....	...	...	...	...	...	...	...	...	...	...
VIII.—DEATHS FROM ILL-DEFINED AND NOT SPECIFIED CAUSES.										
Dropsy .....	...	...	...	...	...	...	...	...	...	...
Debility, Atrophy, Inanition...	46	1	1	48	...	...	...	...	...	48
Mortification .....	...	...	...	...	...	...	...	2	4	6
Tumour .....	2	...	...	2	1	...	5	4	4	16
Abscess .....	...	...	...	...	...	...	...	...	...	...
Hæmorrhage .....	...	...	...	...	...	...	...	...	...	...
Sudden Death (cause not ascertained) .....	16	5	1	22	3	2	4	20	20	71
Causes not Specified or Ill-defined .....	...	...	...	...	1	...	1	...	...	2



TABLE No. 16.  
SCARLET FEVER.

Ages	Cases Reported.	Deaths of such Cases.	
		Total.	Percentage.
Under 5 years ...	47	1	2.12
5 to 10 .. ...	68	...	...
10 to 15... ..	27	1	3.70
15 to 25... ..	5	...	...
25 to 35 .. ...	2	...	...
35 to 45 .. ...	...	...	...
45 to 55... ..	...	...	...
Over 55 ... ..	...	...	...
Total ... ..	149	2	1.34

TABLE No. 17.

## DIPHTHERIA.

Ages.	Cases Reported.	Deaths of such Cases.	
		Total.	Percentage.
Under 5 years ...	64	20	31.25
5 to 10... ..	59	7	11.86
10 to 15... ..	9	2	22.22
15 to 25... ..	4	...	...
25 to 35... ..	5	...	...
35 to 45... ..	1	...	...
45 to 55... ..	...	...	...
Over 55... ..	...	...	...
Total .....	142	29	20.42



TABLE No. 18.

## TYPHOID OR ENTERIC FEVER.

Ages.	Cases Reported.	Deaths of such Cases.	
		Total.	Percentage.
Under 5 years ...	...	...	...
5 to 10... ...	1	...	...
10 to 15... ...	...	...	...
15 to 25... ...	1	...	...
25 to 35... ...	2	...	...
35 to 45... ...	1	1	100·00
45 to 55... ...	...	...	...
Over 55... ...	...	...	...
Total ...	5	1	20·00

TABLE No. 19.

Showing the number of Cases of Sickness and the Deaths Registered during the several months of the year 1916 in Oldham.

Months.	SMALLPOX.		SCARLET FEVER.		DIPH- THERIA.		TYPHOID FEVER.		PUER- PERAL FEVER.		TYPHUS FEVER.		ERYSIPELAS.		MEM- BRANOUS CROUP.		RELAPSING FEVER.		CONTINUED FEVER.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January ...	...	...	10	1	16	6	1	...	3	1	...	...	13	...	...	...	...	...	...	...
February...	...	...	10	...	12	...	1	...	1	1	...	...	11	...	...	...	...	...	...	...
March .....	...	...	18	...	16	4	...	2	...	...	...	...	8	...	...	...	...	...	...	...
April .....	...	...	12	...	14	5	1	...	...	1	...	...	10	...	...	...	...	...	...	...
May .....	1	...	12	...	15	2	...	...	1	...	...	...	15	...	...	...	...	...	...	...
June .....	...	...	10	...	11	...	...	...	1	2	...	...	7	...	...	...	...	...	...	...
July .....	...	...	20	...	10	2	...	...	...	...	...	...	4	...	...	...	...	...	...	...
August ...	...	...	13	2	13	2	...	...	...	...	...	...	5	...	...	...	...	...	...	...
September.	...	...	17	...	8	5	2	...	...	...	...	...	5	...	...	...	...	...	...	...
October ...	...	...	8	...	13	2	2	...	...	...	...	...	11	...	...	...	...	...	...	...
November..	...	...	9	...	10	1	1	...	...	...	...	...	6	...	...	...	...	...	...	...
December..	...	...	10	...	4	...	...	...	1	...	...	...	8	...	...	...	...	...	...	...
Totals ...	1	...	149	3	142	29	5	1	9	5	...	...	103	2	...	...	...	...	...	...



TABLE No. 20.

Cases of Infectious Disease notified during the Year 1916.

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.						
	At all Ages.	At Ages—Years.					
		Under 1	1 to 5	5 to 15	15 to 25	25 to 65	65 and upwards
Small-pox .. ..	1	...	...	...	...	1	...
Diphtheria ... ..	142	1	63	68	4	6	...
Erysipelas ... ..	103	2	2	4	11	70	14
Scarlet Fever ..	149	2	45	95	5	2	...
Typhus Fever ... ..	...	...	...	...	...	...	...
Enteric Fever ..	5	...	...	1	1	3	...
Puerperal Fever ...	9	...	...	...	3	6	...
*Phthisis... ..	553	...	...	...	...	...	...
*Ophthalmia Neonatorum...	...	...	...	...	...	..	...
*Infantile Paralysis.	...	...	...	...	...	...	...
*Cerebro Spinal Meningitis .....	...	...	...	...	...	...	...
Totals ... ..	409	5	110	168	24	88	14

\* Not included in Totals.

TABLE No. 20—Continued.

NOTIFIABLE DISEASE.	No. of Cases Removed to Hospital from Each Locality											
	St. Mary's Ward	St. Peter's Ward	Werneth Ward	Westwood Ward	St. Paul's Ward	Coldhurst Ward	Hartford Ward	Hollinwood Ward	Clarksfield Ward	Mumps Ward	St. James's Ward	Waterhead Ward
Small-pox ...	...	...	...	...	...	...	1	...	...	...	...	...
Diphtheria...	3	1	4	8	6	...	9	2	23	1	1	2
Erysipelas...	...	...	...	1	...	...	...	...	...	...	...	...
Scarlet Fev'r	11	7	11	9	12	3	9	4	9	1	12	9
Typhus „	...	...	...	...	...	...	...	...	...	...	...	...
Enteric „	...	...	2	2	...	...	...	...	1	...	...	...
Puerperal „	...	...	...	...	...	...	...	...	...	...	...	...
Measles .....	...	...	4	6	2	...	2	1	3	...	...	...
Totals ...	14	8	21	26	20	3	21	7	36	2	13	11



TABLE No. 20—Continued.

Cases of Infectious Disease notified during the Year, 1916.

NOTIFIABLE DISEASE.	TOTAL CASES NOTIFIED IN EACH LOCALITY.											
	St. Mary's Ward	St. Peter's Ward	Werneth Ward	Westwood Ward	St. Paul's Ward	Coldhurst Ward	Hartford Ward	Hollinwood Ward	Clarksfield Ward	Mumps Ward	St. James's Ward	Waterhead
Small-pox ...	...	...	...	...	...	...	1	...	...	...	...	...
Diphtheria...	5	9	13	14	15	2	15	4	51	2	3	...
Erysipelas...	4	8	8	20	7	8	13	4	9	5	9	...
Scarlet Fev'r	12	7	16	14	17	4	15	6	20	2	23	1
Typhus „	...	...	...	...	...	...	...	...	...	...	...	...
Enteric „	...	...	2	2	...	...	...	...	1	...	...	...
Puerperal „	1	...	...	2	2	...	1	...	1	1	1	...
Totals ...	22	24	39	52	41	14	45	14	82	10	36	3

TABLE

SUMMARY OF CASES ADMITTED INTO WESTHULME

	1895		1896		1897		1898		1899		1900		1901		1902		1903		1904	
	Admitted	Died	Admitted	Died	Admitted	Died	Admitted	Died	Admitted	Died	Admitted	Died	Admitted	Died	Admitted	Died	Admitted	Died	Admitted	Died
Smallpox ...	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Measles .....	18	5	12	3	43	3	22	6	9	2	50	6	26	6	18	2	7	...	...	...
Scarlet Fever	67	5	371	18	140	8	164	14	400	23	585	30	425	27	405	23	250	13	391	11
Diphtheria...	...	...	...	...	...	1	...	2	...	2	...	...	3	...	6	2	4	...	...	...
Typhus .....	...	...	8	2	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...
Typhoid	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fever.	41	10	27	5	31	6	29	7	34	9	37	9	22	4	22	7	33	8	56	13
Simple Con- tinued Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Puerperal Fever.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Erysipelas ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuberculosis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chicken Pox	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	134	20	418	28	214	17	216	27	445	32	627	40	497	37	456	36	307	25	458	24



No. 21.

HOSPITAL DURING THE YEARS 1895 TO 1916.

1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916
Admitted Died	Admitted Died	Admitted Died	Admitted Died	Admitted Died	Admitted Died	Admitted Died	Admitted Died	Admitted Died	Admitted Died	Admitted Died	Admitted Died
...	...	...	...	...	...	...	...	...	...	...	...
7	7 1	8	53 8	13	64 3	14 1	21 1	...	47 7	6 1	18 2
457 21	424 17	317 12	306 13	312 10	154 6	260 6	242 7	509 10	815 37	364 7	110 2
2 1	3 1	5	5 1	8 2	11 4	25 4	20 5	22 9	46 9	37 6	76 20
...	...	...	...	...	...	...	...	...	...	...	...
34 7	18 3	12 2	30 9	20 2	27 8	25 1	18 5	10	24 6	14 1	9 3
...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	1	...	...
...	...	...	...	2 1	1 1	3	...	1	1	5	2
...	...	...	...	...	...	...	...	...	105	20	127 22 131 23
...	5	...	...	...	...	24	10 0	4	...	...	...
...	...	...	...	...	...	...	...	...	1	1	...
500 29	457 22	342 14	394 31	355 15	257 22	351 12	311 18	546 19	1040 80	553 37	346 50

TABLE No. 22.

Showing the number of new Cases of Sickness coming to the knowledge of the Medical Officer of Health during the years 1884 to 1916.

Year.	Small-pox.	Scarlet Fever.	Diphtheria.	Typhus Fever.	Typhoid Fever.	Puerperal Fever.	Total Cases.
1884	2	289	20	1	100	...	412
1885	4	229	28	...	58	2	321
1886	5	391	44	12	100	7	559
1887	3	1,775	127	2	119	5	2,031
1888	104	985	86	...	106	3	1,284
1889	1	680	39	...	56	5	781
1890	...	320	11	2	63	7	403
1891	...	238	29	...	112	4	383
1892	75	667	27	...	83	9	861
1893	416	442	25	...	70	9	962
1894	165	264	67	...	69	9	574
1895	137	216	70	...	109	5	537
1896	27	785	61	8	114	17	1,012
1897	...	332	38	2	86	10	468
1898	1	346	39	...	68	20	474
1899	2	822	71	...	92	11	998
1900	8	1065	94	...	72	21	1260
1901	2	679	56	...	40	18	795
1902	178	704	187	...	63	15	1147
1903	256	507	201	...	52	9	1025
1904	255	638	158	...	76	19	1146
1905	281	969	98	...	62	15	1425
1906	455	794	92	...	31	16	1388
1907	...	522	69	...	22	8	621
1908	...	597	89	...	39	21	746
1909	...	522	62	...	35	16	635
1910	2	217	50	...	24	14	307
1911	1	447	87	...	20	19	574
1912	...	366	49	...	18	10	443
1913	8	922	91	...	12	13	1,046
1914	4	1265	164	...	18	9	1,460
1915	22	530	86	...	11	10	659
1916	1	149	142	...	5	9	306



TABLE No. 23.

Summary of Cases treated in the Cinder Hill and Strinesdale Hospitals during the years 1901 to 1916.

Hospitals.	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916
	Admitted. Died.	Admitted. Died.	Admitted. Died.	Admitted. Died.	Admitted. Died.	Admitted. Died.	Admitted. Died.	Admitted. Died.	Admitted. Died.	Admitted. Died.	Admitted. Died.	Admitted. Died.	Admitted. Died.	Admitted. Died.	Admitted. Died.	Admitted. Died.
Cinder Hill.....	...	9 1	1 1	...	...	...	...	...	...	2...	1...	...	8 ...	4...	22...	1 ...
Oldham Cases	...	175 9	278 22	269 13	267 5	414 ..	...	...	...	72 3	* 68 4	* 70 2	* 110 1	* 116 1	* 99 ..	* 87 ...
Strinesdale.....	2 .	175 9	278 22	269 13	266 5	413 ...	...	...	...	74 .	68...	67 2	103 ...	101 1	82...	76 ...
Oldham Cases	...	175 9	255 21	246 13	266 5	413 ...	...	...	...	74 .	68...	67 2	103 ...	101 1	82...	76 ...
Out-Township Cases	...	9 1	24 1	23 ...	1 ...	1 ..	...	...	...	...	...	3 .	7 ...	15 .	17...	11 ...
Totals .....	2 ...	184 10	279 22	269 13	267 5	414 ...	...	...	...	74 3	68 4	70 2	110 1	116 1	99 ...	87 ...

TABLE No. 24.

## WOMEN INSPECTORS' REPORT.

VISITS, &amp;c., during the year ending December 30th, 1916.

	Visits.	Re- Inspect'n.	Nuisances Reported to Chief Inspector.	
Births.....	2,604	1,088	Dirty Houses .....	16
Deaths of Infants .....	277	43	Damp do. ....	4
Workshops .....	87	...	Defective Ventilation ...	2
Shop Hours Acts .....	...	...	Do. Cellars .....	...
Enquiries for Shop Seats .....	...	...	Privy Nuisances .....	2
Infectious Diseases .....	1,271	23	Overcrowding .....	2
School Notifications ...	926	30	Defective Drains .....	3
Special Cases .....	34	5	Do. Slop-pipes ...	2
			Under Workshops and Shop Hours Acts...	...
			Other Defects .....	12



TABLE No. 25.  
SHOWING THE NUMBER OF WORKSHOPS REGISTERED  
VISITS MADE, AND DEFECTS REMOVED.

No. of Workshops on Register December, 1915	...	...	...	...	5
" " Discontinued during 1916	...	...	...	...	
" " Registered during 1916...	...	...	...	...	
" " on Register December, 1916	...	...	...	...	5
" Visits Paid	...	...	...	...	12
" Notices Served	...	...	...	...	11
" " Complied	...	...	...	...	11
Re-Inspections of Work in Progress or Under Notice, and including Ashpit work	...	...	...	...	2
Miscellaneous Visits (to Owners, Agents, &c.), and including Ashpit work	...	...	...	...	2
Privies Inspected	...	...	...	...	21

Nature of Defects.	Notices Served.	Notices complied.
Dirty Workrooms	4	2
Damp, Defective Roof, &c.	3	3
Defective Ventilation	4	4
Defective Water Supply	15	10
Defective Cellars	1	—
Insufficient or no Closet Accommodation	5	2
Defective Closets	5	2
Privy Nuisances	117	99
Blocked Drains	7	7
Defective Drains	8	6
Untrapped Drains	5	5
Defective or Short Slop Pipes	2	1
Fire Escapes	5	2
Accumulations	3	3

50 Tests have been applied to the drains of 28 premises, and  
24 defects discovered.

29 yards of drainage pipes laid, and 6 traps fixed.

TABLE No. 26.

SHOWING THE NUMBER OF BAKEHOUSES REGISTERED,  
VISITS MADE, AND DEFECTS REMOVED.

No. of Bakehouses on Register, December, 1915	...	...	...	...	387
" " discontinued during 1916	...	...	...	...	10
" " registered during 1916	...	...	...	...	11
" " on Register, December, 1916	...	...	...	...	388
" Visits paid	...	...	...	...	418
" Notices served	...	...	...	...	14
" " complied	...	...	...	...	13
Re-inspections of work in progress or under notice	...	...	...	...	53
Miscellaneous Visits (to Owners, Agents, etc.)	...	...	...	...	31

Nature of Defects.					Notices Served	Notices Complied
Bakehouses Repaired	...	...	...	...	3	3
Dirty Bakehouses	...	...	...	...	1	1
Damp, Defective Roof, etc.	...	...	...	...	...	...
Defective Ventilation	...	...	...	...	2	2
Accumulations	...	...	...	...	...	...
Defective Slop Pipe	...	...	...	...	...	...
Blocked Drains	...	...	...	...	4	4
Defective Drains	...	...	...	...	2	1
Defective Chimneys	...	...	...	...	2	2

District	No. on Register	Where Baking is Done.					Kind of Oven Used.				
		Living Room	Living Room and Kitchen	Out Kitchen	Cellar	Bakehouse	Ordinary	Special Iron	Gas	Brick	Stove
No. 1    ...    ...	80	31	16	12	6	15	30	45	11	6	...
" 2    ...    ...	85	31	11	17	8	18	33	47	8	2	1
" 3    ...    ...	96	18	28	28	4	18	22	56	22	4	1
" 4    ...    ..	54	19	6	15	4	10	18	29	9	5	1
" 5    ...    ...	73	27	18	8	2	18	30	42	14	2	1
Totals    ..	388	126	79	80	24	79	133	219	64	19	4



# TABLE No. 27.

## RETAIL MILK SHOPS.

No. of Milk Shops on Register, December, 1915...	...	...	...	...
"    "    Discontinued during 1916	...	...	...	...
"    "    Registered    "    1916	...	...	...	...
"    "    on Register, December, 1916...	...	...	...	...
No. of Visits Paid	...	...	...	...
Visits to Ice Cream Vendors	...	...	...	...

TABLE No. 28.

Showing the number of Smoke Observations taken and Inspections of Mill Lodges made during the years 1915-1916.

Fortnight ending		SMOKE OBSERVATIONS.		MILL LODGES INSPECTIONS.	
1915.	1916.	1915.	1916.	1915.	1916.
Jan. 2	Jan. 15...	14	37	3	—
" 16	" 29...	26	37	—	26
" 30	Feb. 12...	31	41	17	9
Feb. 13	" 26...	47	48	49	6
" 27	Mar. 11...	41	55	34	2
Mar. 13	" 15...	51	56	—	12
" 27	Apr. 8...	53	82	9	15
Apr. 10	" 22...	44	60	8	5
" 14	May 6...	23	92	4	7
May 8	" 20...	38	87	4	22
" 22	June 3 ..	57	85	19	3
June 5	" 17...	47	74	6	4
" 19	July 1...	59	81	31	9
July 3	" 15...	56	68	42	5
" 17	" 29...	60	76	22	2
" 31	Aug. 12...	60	75	6	12
Aug. 14	" 26...	83	77	10	3
" 28	Sep. 9...	67	55	23	9
Sep. 11	" 23...	51	80	10	5
" 25	Oct. 7...	76	64	3	—
Oct. 9	" 21...	77	75	18	—
" 23	Nov. 4...	61	73	37	12
Nov. 6	" 18...	52	60	40	6
" 20	Dec. 2...	43	53	9	—
Dec. 4	" 16...	43	50	12	9
" 18	" 30...	32	50	13	9
" 31		27	—	14	
Totals .....		1319	1691	443	192



TABLE No. 29.  
HALF-HOURLY SMOKE OBSERVATIONS,  
TAKEN DURING 1916.

Total Observations taken.	No Black Smoke.	Under 1 Minute.	One and Under 2 Minutes.	Two and Under 3 Minutes.	3 and 4, both inclusive.	Over 4 Minutes.
1691	580	381	491	182	41	1
Percentage ...	34.3	22.5	29.0	10.8	2.4	0.1

TABLE No. 30.

## LIST OF FIRMS REPORTED TO HEALTH COMMITTEE DURING THE YEAR 1916.

NAME OF MILL	Where Situated	No of Boilers	Length of Boilers	Diameter of Boilers	Coal Consumption Weekly	No. of Boilers Working	Nature of Appliances Fixed.	How disposed of
Glodwick Mill .....	Gartside Street ...	4	ft.	ft. in.	Tons	3	Nil	Adjourned for 3 months
Alma Mill .....	Scott Street .....	4	30	8 6	72	4	Nil	Do.
West End Mill .....	Chadwick Street ...	3	30	7 6	60	3	Nil	Do.
Commercial Mill ..	Falcon Street .....	4	28	8 0	70	3	Nil	Do.
Pearl Mill .....	Netherhey Street...	5	30	8 0	57	4	Nil	Do.
Alma Mill .....	Scott Street .....	4	30	8 0	120	4	Nil	Do.
Durban Mill .....	Millgate .....	4	30	7 6	60	4	Nil	Do.
Copster Mill .....	Hathershaw .....	4	30	8 6	100	3	Nil	Do.
Majestic Mill .....	Greenacres Road...	4	30	8 0	70	3	Nil	Do.
Grange Vale .....	West End Street...	2	30	8 6	115	4	Nil	Do.
Majestic Mill .....	Greenacres Road...	4	30	8 6	30	2	Nil	Adjourned for 2 months
Stanley Mill .....	Lees Brook .....	3	30	8 0	115	4	Nil	Cautioned by H.C.
Majestic Mill .....	Greenacres Road...	4	30	8 6	37	2	Nil	Legal Notice Served
Alexandra Mill ..	Acre Lane .....	2	30	8 0	115	4	Nil	Do.
Orme Mill .....	Greenacres Road...	4	30	8 0	...	...	Nil	Fined 20/-
Stanley Mill .....	Lees Brook .....	3	30	7 6	130	6	Broadbent's Louvre Doors .....	Do.
		3	30	8 6	87	3	Nil	Do.
		3	30	8 0	37	2	Nil	Do.
Hartford Iron Wks.	Railway Bank .....	2	30	7 0	?	5	Broadbent's Louvre Doors on 1 ... Sanger & Webster .....	Do.



TABLE No. 31.

## SMOKE PROSECUTIONS DURING 1916.

No. of Firms Fined.	Amount of Fine.	No. of times previously prosecuted.
2	20/-	—
1	20/-	1
1	20/-	2
1	20/-	8

TABLE No. 32.

NATURE OF SMOKE APPLIANCES IN USE IN THE  
BOROUGH OF OLDHAM, 1916.

Name of Appliances.	No. of Mills.	No. of Boilers.
Cass's Coking Machines ... ..	1	3
Dyson & Williamson's Coking Machines...	1	3
Williamson's Auto-Coking do. ...	6	11
McDougall's do. ...	1	1
Proctor's do. ... ..	3	10
Meldrum Bros.' Forced Draught Furnace	1	1
Wilton's do. do. ...	1	1
Broadbent's Louvre Air Regulators...	14	46
Caddy's Tubular Bars ... ..	2	8
Yates & Thom's Rocking Bars ... ..	1	1
Butterworth's Sectional Bars ... ..	2	8
Holden's Hollow Bars and Dead Plates	1	1
Hollow or Split Bridge Walls ... ..	3	6
Whittle's Steam Injectors ... ..	1	2
Martin's Swing Doors ... ..	1	2
Sanger and Webster's Patent Air Regulators ... ..	7	24
Whitehead's Seating Blocks ... ..	1	1
British Smoke Preventor ... ..	2	4
Green's Smoke Consumer... ..	3	12
Thornton's Smoke Consumer ... ..	3	7
Johnson's Smoke Consumer ... ..	2	7
Benniss' Sprinkling Stoker ... ..	1	1
Sirroco Fans ... ..	1	1
TOTALS... ..	59	162

Where no Appliances are fixed—120 Mills; 279 Boilers. There are also about 60 Workshop Chimneys not on books.





TABLE No. 34.  
MAGISTERIAL PROCEEDINGS, 1916.

No. of Cases.	Particulars of Complaint.	How Disposed of.	Penalties.		
			£	s.	d.
5	Smoke Cases .....	20/-	5	0	0
3	Exposing for Sale Diseased and Unsound Meat .....	Two Months' Hard Labour in each case			
8			£ 5	0	0



## FOOD INSPECTOR'S REPORT.

Visits to Markets...	...	...	...	...	...	641
Do. Cattle Wharves...	...	...	...	...	...	548
Do. Meat Shops...	...	...	...	...	...	9,266
Do. Fish Shops...	...	...	...	...	...	3,102
Do. Fruit and Vegetable Shops...	...	...	...	...	...	6,147
Do. Miscellaneous	Do.	...	...	...	...	46
Do. Contagious Diseases	...	...	...	...	...	92

## SLAUGHTER HOUSES.

## VISITS MADE AND DEFECTS REMEDIED.

No. on Register, December, 1915	...	...	...	...	44
No. lapsed during 1916	...	...	...	...	1
No. newly licensed during 1916	...	...	...	...	—
No. on Register, December, 1916	...	...	...	...	43

Nature of Defects.					Notices Served.	Notices Complied.
Dirty	...	...	...	...	3	3
Defective Floors	...	...	...	...	1	1
Do. Drains	...	...	...	...	—	—
Without Bye-Laws	...	...	...	...	2	2
Do. Name Plate	...	...	...	...	—	—
Accumulation of Refuse	...	...	...	...	2	2
Insufficient Number of Vessels	...	...	...	...	2	2
Defective Yards	...	...	...	...	1	1
Insufficient Water Supply	...	...	...	...	1	1
Defective Ventilation	...	...	...	...	—	—
„ Manure Pit	...	...	...	...	—	—
„ Eaves Gutters	...	...	...	...	—	—

## DAIRIES, AND COWSHEDS.

No. of Dairies on Register, December, 1915	...	...	...	51
No. „ „ „ 1916	...	...	...	47
No. of Cowsheds on Register, December, 1915	...	...	...	107
No. „ „ „ Lapsed during 1916	...	...	...	—
No. of New Cowsheds Registered during 1916	...	...	...	—
No. of Cowsheds on Register December, 1916	...	...	...	107

Nature of Defects.					Notices Served.	Notices Complied.
Defective Eaves Gutters	...	...	...	...	—	—
Cowsheds Overcrowded	...	...	...	...	—	—
Defective Door	...	...	...	...	—	—
Do. Ventilation	...	...	...	...	—	—
Do. Drain	...	...	...	...	1	1
Do. Gable End	...	...	...	...	—	—
Keeping Pigs in Cowsheds	...	...	...	...	—	—
Do. Cows in Buildings Not Registered	...	...	...	...	—	—
Defective Roofs	...	...	...	...	—	—
„ Floors	...	...	...	...	—	—
Accumulation of Refuse	...	...	...	...	—	—
Insufficient Water Supply	...	...	...	...	—	—
Dirty	...	...	...	...	—	—
Nuisance from Pig Keeping	...	...	...	...	—	—
Defective Privy	...	...	...	...	—	—

The number of Cowsheds, and the amount of cubic space per head :—

Total number of Cowsheds, 107.						1915.	1916.
						No. of Shippons	No. of Shippons.
600 cubic feet and under 700 cubic feet per head						52	52
700	"	"	800	"	"	16	16
800	"	"	900	"	"	26	26
900	"	"	1000	"	"	8	8
1000	"	"	1100	"	"	2	2
1100	"	"	1200	"	"	3	3
Total						107	107

### SUMMARY.

						Visits paid.	Notices served.	Notices complied with.
Slaughter Houses	...	...	...	...	...	2873	12	12
Dairies	...	...	...	...	...	47	—	—
Cowsheds	...	...	...	...	...	112	1	1

### DISEASED OR UNSOUND FOOD DESTROYED.

						Tons.	Cwts.	Qrs.	Lbs.
6 Oxen	...	...	...	...	...	1	13	1	24
18 Sheep	...	...	...	...	...	0	9	3	0
5 Pigs...	...	...	...	...	...	0	7	2	1
2 Calves	...	...	...	...	...	0	1	0	0
Meat	...	...	...	...	...	1	18	0	4
Offal	...	...	...	...	...	6	0	0	1
Fruit	...	...	...	...	...	0	2	2	0
Fish...	...	...	...	...	...	0	3	0	0
Preserved Goods	..	...	...	...	...	0	18	1	3
120 Rabbits	...	...	...	...	...	0	2	2	0
Total	...	...	...	...	...	11	16	0	5



The following is a summary of diseased, etc., animals reported to, or found by the Meat Inspector during the year:—

Diseased Conditions.				No. Reported.	No. Found by Inspector.	Total.
Tuberculosis	...	...	...	98	41	139
Damaged or Over-kept Foods	...	...	...	35	16	51
Liver Flukes	...	...	...	—	14	14
Hydatids	...	...	...	—	13	13
Pneumonia	...	...	...	5	4	9
Smothered	...	...	...	20	—	20
Puerperal	...	...	...	—	—	—
Injured in transit	...	...	...	6	1	7
Pyæmia	...	...	...	—	12	12
Parasitic Mange	...	...	...	4	—	4
Suspected Swine Fever	...	...	...	—	—	—
Dropsy	...	...	...	1	1	2
Milk Fever	...	...	...	—	2	2
Suspected Rabies	...	...	...	1	—	1





## HOUSES LET IN LODGINGS, 1916.

Number of Houses on Register, December, 1915	...	...	...	17
"    "    lapsed during 1916	...	...	...	1
"    "    registered during 1916	...	...	...	
"    "    on register December, 1916	...	...	...	16
Rooms on register December, 1915	...	...	...	74
"    "    lapsed during 1916	...	...	...	6
"    "    registered during 1916	...	...	...	5
"    "    on register December, 1916	...	...	...	70
Visits paid	...	...	...	860
Notices Served	...	...	...	189
"    complied with	...	...	...	189

NATURE OF DEFECTS	Notices Served	Notices Complied With
Broken Walls, Floors and Ceilings...	17	14
Overcrowding	5	5
Dampness from defective Roof, etc.	39	37
Blocked Drains	17	17
Defective Slop-pipes	12	11
Dirty Walls, Floors, Ceilings, etc....	74	74
Defective Water Closet	12	12
Additional Waste Water Closets provided	—	—
Accumulations of Refuse	10	10
Defective Dust-bin	2	2
Defective Ventilation	1	—
	189	189

DRAINAGE DEFECTS.	Notices Served.	Notices Complied with
Blocked Drains ... ..	355	322
Defective Drains... ..	136	134
Drain inlets untrapped or defectively trapped... ..	101	85
Slop Pipe, defective or improperly ventilated... ..	145	122
Defective Water Closets ... ..	77	69
Defective Waste Water Closets... ..	1272	1269
New Water Closets provided ... ..	5	3
New Waste Water Closets .. ..	3	3
Yards and Passages Repaired and Flagged ... ..	53	45
Accumulation of Offensive Matter ... ..	399	383
Manure Heaps... ..	55	53
Defective and Insufficient Dustbins ... ..	377	376

No. of Smoke or other Tests, 289. No. of Houses Tested, 223.  
 No. of Defects found, 129. 586 yards of Channel Tiles and Drainage  
 Pipes have been laid or re-laid during the year.

Traps fixed, 85. Ventilating Grids, 2.

Houses connected with Main Sewer, 1.

VISITS TO VARIOUS PREMISES.	Visits Paid.	Notices Served.	Notices Complied with
Bakehouses ... ..	418	14	13
Pigsties ... ..	116	4	3
Tents, Vans, and Sheds ... ..	209	4	2
Houses let in Lodgings ... ..	8608	189	182
Offensive Trades ... ..	628	15	15
Mill Lodges ... ..	192	2	1
Ice Cream Vendors ... ..	198	...	...
Milkshops ... ..	467	...	...
Factories and Workshops ... ..	1193	184	146
Shop Hours Act ... ..	2	...	...



## ABOLITION OF ASHPITS.

Notices served for the abolition of 87 Ashpits	...	...	...	...	7
Number of Ashpits abolished during the year	...	...	...	...	5
do. do. since November 18th, 1909	...	...	...	...	658
Number of Dustbins provided during the Year	...	...	...	...	13
do. do. since November 18th, 1909	...	...	...	...	1676

					£	s.	d.
Total Cost of 16547 Dustbins with Covers	...	...	...	...	6199	1	
do. 216 do. without Covers	...	...	...	...	64	5	
Total Cost to date	...	...	...	...	6263	7	

Samples taken under Food and Drugs Act	...	...	...	...	...	19
Informal Samples	...	...	...	...	...	1
Letters written to Property Owners or Agents, &c.	...	...	...	...	...	38
Miscellaneous Visits, &c.	...	...	...	...	...	338
Privies inspected	...	...	...	...	...	1236
Samples taken under Rag Flock Act	...	...	...	...	...	

Erections in Yards reported	...	...	...	...	...	...
Defective Urinals	...	...	...	...	...	...
Carcases of Animals in Water	...	...	...	...	...	...
Stagnant Water	...	...	...	...	...	...
Manure Pits built	...	...	...	...	...	...
Poultry in Houses	...	...	...	...	...	...
Dust and Fly from Mills	...	...	...	...	...	...
Low or Defective Chimneys	...	...	...	...	...	...
Dangerous Places reported	...	...	...	...	...	...
Coal Gas Nuisances and Escapes reported	...	...	...	...	...	...
Dead Bodies removed to Mortuary	...	...	...	...	...	...
Fire Escapes	...	...	...	...	...	...

Visits to Cases of Infectious Diseases	...	...	...	...	...	7
Visits to Cases of Phthisis	...	...	...	...	...	1
Cases removed to Hospitals	...	...	...	...	...	2
Houses Stripped or Cleansed after Infectious Disease	...	...	...	...	...	

## HOUSES AND CLOTHING DISINFECTED.

Number of Houses Disinfected during the year	...	...	...	...	5
Number of Rooms do. do.	...	...	...	...	16
Number of lots of Clothing Disinfected during the year	...	...	...	...	6
Number of Articles do. do.	...	...	...	...	62
Number of Articles destroyed during the year	...	...	...	...	3

## CLOTHING, &amp;c., 1915-1916.

Articles.	Disinfected.		Destroyed.		Totals.	
	1915.	1916.	1915.	1916.	1915.	1916.
Blankets .....	1866	1020	4	6	1870	1026
Sheets .....	1212	894	8	17	1220	911
Pillows .....	1609	1135	96	62	1705	1197
Bolsters .....	817	541	38	21	855	562
Quilts.....	740	631	7	7	747	638
Mattresses .....	5	9	82	39	87	48
Beds .....	978	597	135	105	1113	702
Carpets .....	13	2	12	2	25	4
Rugs .....	2	29	...	6	2	35
Curtains.....	113	14	1	...	114	14
Clothes .....	1708	1067	34	21	1742	1088
Sundry Articles ...	333	345	38	71	371	416
Total .....	9396	6284	455	357	9851	6641



## SANITARY DEPARTMENT, 1916.

## RHODES BANK.

Number of Sanitary Pans in the Borough	...	...	...	...	...
Do. Water Closets	do.	...	...	...	...
Do. Waste-water Closets	do.	...	...	...	2
Do. Latrines	do.	...	...	...	...
Do. Houses represented	...	...	...	...	36
Do. Mills, Workshops, &c.	do.	...	...	...	...
Do. Churches, Schools, &c.	do.	...	...	...	...
Do. Tons of Manure sent out from Higginshaw	...	...	...	...	...

## DESTRUCTORS.

Quantity of Ashes, Fish Offal and Garbage consumed :—								Tons
Rhodes Bank Destructor ... ..								1277
Robin Hill               "								728
Hollinwood             "								628
Total								2634

Quantity of Mortar Sold :—							Tons	C
Rhodes Bank Destructor	...	...	...	...	...	...	579	
Robin Hill	"	...	...	...	...	...	315	
Hollinwood	"	...	...	...	...	...	583	
Total	...	...	...	...	...	...	1477	1

FLAG MAKING DEPARTMENT.

								Sq
Quantity of Flags made ... ..	...	...	...	...	...	...	...	...
Do. sold ... ..	...	...	...	...	...	...	...	...

## CLEANSING (NIGHTSOIL) DEPARTMENT.

Number of Sanitary Pans Emptied during the night	...	...	...	...	16
Do. Cesspools, &c., do.	do.	do.	...	...	...
Do. Collections of Butchers' Offal during the night	...	...	...	...	...
Do. do. Fish Offal do.	...	...	...	...	...
Do. Loads of Exereta collected	...	...	...	...	...
Do. do. Butchers' Offal collected	...	...	...	...	...
Do. do. Fish Offal collected	...	...	...	...	...
Do. do. Shoddy Dirt collected	...	...	...	...	...

## CLEANSING (ASHES) DEPARTMENT.

Number of Ashpits in the Borough	...	...	...	...	...	...
Do. Ash Cans, &c.	do.	...	...	...	...	22
Do. Ashpits Emptied during the day		...	...	...	...	
Do. Ash Cans	do.	do.	...	...	...	175
Do. Loads of Ashes taken to Destructors		...	...	...	...	22
Do. do.	do.	Corporation Tips	...	...	...	
Do. do.	do.	Other Tips	...	...	...	
Do. do.	Clinker removed	...	...	...	...	
Total No. of Loads removed	...	...	...	...	...	3